

ELPARTS

ELECTRICS | Signal devices | Signal units | Relays | Control units | Switches | Actuators+Sensors |
locking system | Voltage transformers | Inverter | Alternators+Starters | Washing water pump | Ignition system



herthundbuss.com

Electrics



Passt immer!

HERTH+BUSS

“Real-life” implemented improvement process

We, the management are committed to the TQM concept, because we value the trust our customers place in us and want to maintain it in the long term.

We see our relationship with our customers as a partnership which must be constantly improved. As a result, we continuously check even established processes for opportunities for improvement.

And not because anyone is forcing us to do so, because we have met the criteria for the ISO certification for a long time.

Instead, we are motivated by the chance to achieve even better results in our work together and to help our customers to increase their competitiveness and hence secure their long-term success.

That is what we call a “real-life implemented improvement process”, and it is also what our many long-term customers especially appreciate about their cooperation with Herth+Buss.



We are certified according to:

- ISO 9001:2015 Quality management
- ISO 27001:2017 Information Security Management
- VDA 6.2 Quality management
- StVZO Verification

SELECTAG
Made in Quality

AUTO REPARATUR
plus Certification

Qualität
100 Millionen

VDA

Verband der
Automobilindustrie

AAMPACT

CARAT
QUALITÄTSSYSTEME

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System

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N! NEXUS
A PROGRESSIVE AUTOMOTIVE COMMUNITY

ATR

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HANDLER FOR BEST PRACTICES
Cooperation with Herth+Buss

PARTSLIFE

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Data Supplier

E-T-A-I

mamsoftware

ALDOC

sofinn
software innovativ

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The specialist in vehicle electrics!

With our Elparts range we offer a comprehensive product spectrum that meets any requirement, from automobiles to commercial vehicles. This is our professional workshop solution and that's why we're always first choice.

Our services for you:

- over 6,200 universal parts
- over 3,000 vehicle-specific parts with 666,000 vehicle links
- comprehensive range for all vehicle types
- exactly fitting parts allocation
- professional-quality solutions from Herth+Buss

Passt immer!



ELECTRICS

Signal devices



Signal units



Relays



Control units



Switches



Actuators+Sensors



Locking system



Voltage transformers



Inverter



Alternators+Starters



Wash water pump



Ignition system



INSTALLATION

Connectors



Attachment parts



Cable straps



Gaskets+Grommets



Insulating tape



Hoses+Pipes



Cables+
Cable connections



Battery accessories



Plug housings



Fuses



Plugs+Sockets



Assortments



TOOLS

Release tools



Pliers



Service+Diagnostics



Measuring technology



Battery management



Processing+Installation



Workshop lamps



LIGHTING

Headlights



Lights



Reflectors



Warning equipment



Connection sets



(Lamp) sockets



Bulbs





» IP CODE

Overview of IP-Code components (extract)

The protection categories are indicated by an abbreviation which is comprised of the letters IP (International Protection) which always remain the same, followed by two code numbers which represent the degree of protection.

The first code number represents the degree of protection against contact and foreign bodies, and the second represents the degree of protection against damage caused by water penetration.

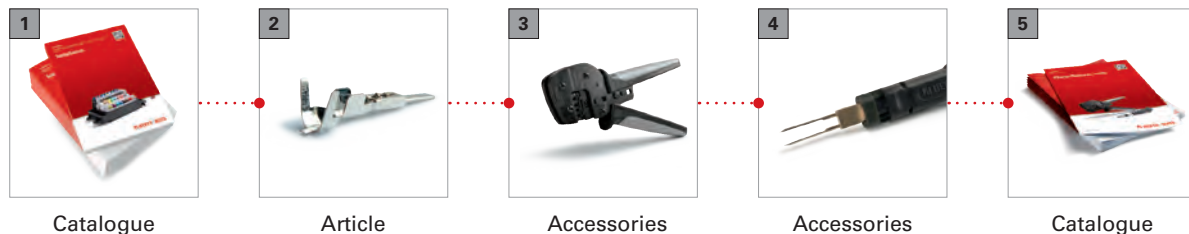
First no.	Level of protection against touch	Level of protection against intrusion of foreign bodies	Second no.	Level of protection against water penetration
0	not protected	not protected	0	not protected
1	back of hand	object with Ø over 50 mm	1	vertical droplets
2	finger	object with Ø over 12,5 mm	2	droplets at 15° tilt
3	tools	object with Ø over 2,5 mm	3	spraying water
4	thin wire	object with Ø over 1 mm	4	splashing water
5	thin wire	dust-protected	4K	splashing water, at high pressure, only for road vehicles
6	complete	dust-tight	5	water jets
X	not checked	not checked	6	powerful water jets
			6K	powerful water jets, at high pressure (flooding), only for road vehicles
			7	temporary submersion
			8	continuous submersion
			9K	for pressure/steam jet cleaning, only for road vehicles, for use with end cap

Example: IP-Code 65

First code number 6 = complete touch protection and dust-protected
 Second code number 5 = protected against water jets

» PRACTICAL EXAMPLE

You have found a crimp connector in the Installation Catalogue (Katalog04EN), for example, then you see the corresponding pliers or release tool listed as accessories. Comprehensive information on these tools is then provided in the Tools Catalogue (Katalog08EN).



» VDA

Installation by specialist only

The VDA working group for suppliers' aftermarket business is the representative of parts manufacturers in the German automotive industry, with their global heads in the aftermarket area. One of the main issues addressed by the group is the use of parts safety to constantly guarantee or increase road safety for drivers.

It has been noted that driver safety can be especially put at risk by improper installation of parts that are intended for installation by a workshop, not unqualified persons.

The aftermarket working group has therefore commissioned a pictogram for "Installation by specialist only". This pictogram for international use can be attached to the packaging of workshop parts for information purposes and indicates to the consumer that installation by a specialist workshop is recommended. The pictogram symbol has been developed as part of a market research study and successfully tested for clear understanding in a range of countries.

VDAVerband der
Automobilindustrie

» LEGAL INFORMATION

With the publication of this catalogue, all previous offers lose their validity. Only our order confirmation shall be relevant for the subject matter of the contract. We shall supply exclusively on the basis of the latest version of our general conditions of sale and delivery.

The catalogue is intended for the commercial sector only. All information in this catalogue has been carefully researched and reproduced. Technical modifications in the course of further development and variations in the shape, colour and the allocation of article numbers for each product described are reserved. In particular, we do not guarantee the complete consistency of the illustrations with the product. Claims for compensation due to printing errors or other incorrect and/or incomplete information

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The products supplied by us may only be used for their intended purpose. Fitting must only be performed by trained specialists.



Terminal designations (excerpt from DIN 72552)

Terminal designations are not the same as cable designations, as devices with different terminal designations can be connected to both ends of a cable. If there are no more sufficient terminal designations (multiple plug connections), the terminals shall be allocated with running numeral or alphabetical designations that have no standardised functional allocation.

Terminal	Definition	Terminal	Definition
1	Ignition coil, ignition distributor Low voltage	48	Starter Terminal at starter and at starter repeater relay Monitoring of the starting process
	Ignition distributor with two separate circuits		Flasher unit (pulse generator)
1a	To ignition contact breaker I	49	Input
1b	To ignition contact breaker II	49a	Output
2	Short-circuit terminal (magneto ignition)	49b	Output, 2nd flasher circuit
		49c	Output, 3rd flasher circuit
4	Ignition coil, ignition distributor High voltage		Starter
	Ignition distributor with two separate circuits	50	Starter control (direct)
4a	From ignition coil I, terminal 4		Battery transfer relay
4b	From ignition coil II, terminal 4	50a	Output for starter control
15	Switched positive after battery, (output for ignition [driving] switch)		Starter control
15a	Output at series resistor to ignition coil and starter	50b	In case of parallel operation of two starters with sequence control
	Preheat starter switch		Starter relay for the sequence control of the engaging current
17	Start		in case of parallel operation of two starters
19	Preheat	50c	Input at starter relay for starter I
	Battery	50d	Input at starter relay for starter II
30	Input from battery positive, direct		Starter lock relay
	Battery transfer relay 12/24 V	50e	Input
30a	Input from battery II positive	50f	Output
	Return line to battery		Starter repeater relay
31	Negative or earth, direct	50g	Input
	Return line to battery	50h	Output
31b	Negative or earth, via switch or relay (Switched negative)		Alternator
	Battery transfer relay 12/24 V	51	Direct current at rectifier
31a	Return line to battery II negative	51e	Direct current at rectifier with inductor for daytime driving
31c	Return line to battery I negative		Trailer signals
	Starter	52	Additional signalling from the trailer to the towing vehicle
45	Separate starter relay Starter output Main current input		Wiper motor
	Two-starter parallel operation	53	Input (+)
	Starter relay for engaging current	53a	Wipers (+), end position
45a	Output starter I, input starter I and II	53b	Wipers (shunt winding)
45b	Output starter II	53c	Electrical windscreen washer pump
		53e	Wipers (brake winding)
		53i	Wiper motor with permanent magnet and third brush (For higher speed)

Terminal	Definition	Terminal	Definition
	Trailer signal		Multiple position switches
54	Trailer plug connectors and lighting combinations	83	Input
	Brake light	83a	Output, position 1
54g	Compressed air valve for permanent brake, electromagnetically actuated	83b	Output, position 2
		83L	Output, position left
55	Fog light	83R	Output, position right
			Current relay
56	Headlight	84	Input, actuator and relay contact
56a	High beam and high beam control	84a	Output, actuator
56b	Low beam	84b	Output, relay contact
56c	Headlamp flasher contact		Switching relay
57	Standing light for motorcycles (Also for cars, commercial vehicles etc. abroad)	85	Output, actuator (End of winding for negative or earth)
57a	Parking light	86	Input for actuator (start of winding)
57L	Parking light, left	86a	Start of winding or 1st winding
57R	Parking light, right	86b	Winding tap or 2nd winding
			Relay contact for opening and changeover contacts
58	Marker lamp, rear lamp, licence plate lamp and instrument lamps	87	Input
58b	Rear light switching for single-axle tractors	87a	1st output (opening contact side)
58c	Trailer plug connection for single-core rear light which is fused in the trailer	87b	2nd output
58d	Variable instrument lighting, rear lamp and marker lamp	87c	3rd output
58L	Left marker light and rear light	87z	1st input
58R	Right marker light and rear light, licence plate lamp	87y	2nd input
		87x	3rd input
	Alternator (Magneto ignition alternator)		Relay contact for closing contacts
59	Alternating current, output; rectifier, input	88	Input
59a	Charging armature, output		Relay contact for closing and changeover contacts (Closing contact side)
59b	Rear light armature, output	88a	1st output
59c	Brake light armature, output	88b	2nd output
		88c	3rd output
61	Alternator control		Relay contact for closing contacts
	Tone sequence switching device	88z	1st input
71	Input	88y	2nd input
71a	Output to horn 1 + 2 low	88x	3rd input
71b	Output to horn 1 + 2 high		Alternator and alternator regulator
72	Alarm switch (rotating beacon)	B +	Battery positive
75	Radio, cigarette lighter	B –	Battery negative
76	Speaker	D +	Dynamo positive
77	Door valve control	D –	Dynamo negative
	Switches	DF	Dynamo field
	Opening contacts and changeover contacts	DF	1 Dynamo field 1
81	Input	DF	2 Dynamo field 2
81a	1st output, opening contact side		Turn signal (flasher unit)
81b	2nd output, opening contact side	C	First control lamp
	Closing contact	C0	Main connection for control circuits separate from the flasher
82	Input	C2	Second control lamp
82a	1st output	C3	Third control lamp (e.g. for operation with two trailers)
82b	2nd output	L	Indicators, left
82z	1st input	R	Indicators, right
82y	2nd input		



New in the catalogue!

NEW 10 ARTICLES!

Description	Article number	Page
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Trumpet Horn	56350202	20
Trumpet Horn	56350203	20
Trumpet Horn	56350204	20
Switches		
Switch	70468074	106
Switch	70468070	106
Switch	70468071	106
Switch	70468072	106
Switch	70468073	106
Main Switch, battery	70465012	136



»» DIAGNOSIS AT OE LEVEL

Our innovative diagnosis solution Diagnosis on Demand

Our remote maintenance tool Diagnosis on Demand (DoD) provides an online connection between the vehicle in the workshop and the technicians at Herth+Buss. It enables the trouble-free programming, activation and coding of electrical components, as well as the teaching and coding of retrofit parts.

The following advantages are available:

- The vehicle no longer has to leave the workshop for diagnosis!
- You only have to pay for the service you have actually used.
- Live contact with technicians via the chat function

For more information about DoD,
visit our website. To do so,
simply scan the QR code!







Signal devices

Cap	20
Compressed Air Oiler	27
Compressor, compressed air system	26
Signal Horn	15
Signal System, emergency vehicle	25
Trumpet Horn	17 - 19
Valve, compressed-air system	27



Signal devices

» SIGNAL DEVICES



While one person may regard visualised safety on the road through warning equipment as most effective, another may believe that attracting attention with acoustic signals is the best solution. We offer a range of horns and fanfares for fans of acoustic solutions, which make other road users

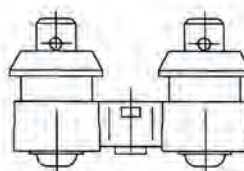
aware of the vehicle in good time in hazardous situations. We also offer matching compressed air compressors for the fanfares. Spray mist oilers provide optimal lubrication to help reduce wear.



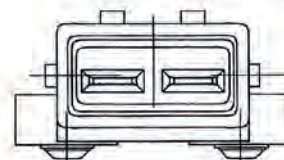
» CONNECTION TECHNOLOGY



All Herth+Buss horns are supplied with the connection types shown. The F-type is a universal connection for all standard crimp connectors. The K-type requires a special plug and is only suitable for Volkswagen.



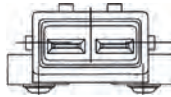
F-Type



K-Type



Signal Horn



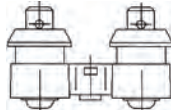
■ The K-type requires a special plug and is only suitable for Volkswagen.

Power Consumption: 60 W
Capacity at 12V: 5 A
Registration Type: E-type checked
Diameter: 90 mm

Mounting points diameter: 8 mm
Info: with flanged nut
Sound Level: 118 dB(A)

Rated Voltage V	Frequency Range Hz	Connector type	Surface	Colour	DU	Article no.
12	335	2 x 6,3 mm K Type	Painted	●	1	56370053

Signal Horn

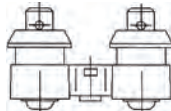


Power Consumption: 60 W
Capacity at 12V: 5 A
Registration Type: E-type checked

Diameter: 90 mm
Mounting points diameter: 8 mm
Sound Level: 118 dB(A)

Rated Voltage V	Frequency Range Hz	Connector type	Surface	Colour	DU	Article no.
12	335	2 x 6,3 mm F Type	Zinc-coated	●	1	56370046

Signal Horn



Power Consumption: 60 W
Capacity at 24V: 2,5 A
Registration Type: E-type checked

Diameter: 90 mm
Mounting points diameter: 8 mm
Sound Level: 118 dB(A)

Rated Voltage V	Frequency Range Hz	Connector type	Surface	Colour	DU	Article no.
24	335	2 x 6,3 mm F Type	Zinc-coated	●	1	56370045



Trumpet Horn



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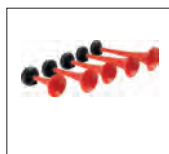
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Electric

Trumpet Horn



Power Consumption: 120 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Electric
Material: Plastic

Diameter: 94 mm
WxHxD: 95 x mm
Info: with fastening material
 Mini Relay

Sound Level dB(A)	Frequency Range Hz	Connector type	Rated Voltage V	Colour	DU	Article no.
112	410 490	2 x 6,3 mm	12	●	1	56360112
			24	●	1	56360113

Trumpet Horn



Power Consumption: 120 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Electric
Material: Plastic

Diameter: 90 mm
WxHxD: 40 x mm
Info: with fastening material
 Mini Relay

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Connector type	Colour	DU	Article no.
12	112	410 500	1 x 6,3 mm	●	1	56360261

Trumpet Horn



Power Consumption: 120 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Electric
Material: Plastic
Diameter: 80 mm

WxHxD: 40 x mm
Info: with fastening material
 Mini Relay
 with cover mesh

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Connector type	Surface	DU	Article no.
12	112	400 500	1 x 6,3 mm	Chromed	1	56360010

Trumpet Horn



- DING-DONG sound, short interval
- Installation without relay

Power Consumption: 95 W
Signal Horn: Bell
Registration Type: not permitted on public roads

Operating Mode: Electric
Material: Brass
Diameter: 115 mm

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Surface	DU	Article no.
12	90	775	Chromed	1	56372010



Pneumatic

Trumpet Horn



Power Consumption: 240 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Pneumatic
Material: Plastic

Air Compressor: with air compressor
Info: with hose
with fastening material
Mini Relay

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Colour	DU	Article no.
12	117	600 735		1	56350001
		630 795		1	56350121
Content			Rated Voltage V	QU	
Compressor, compressed air system			12	1	56351131

Trumpet Horn



Power Consumption: 192 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Pneumatic
Material: Aluminium

Air Compressor: with air compressor
Info: with hose
with fastening material
Mini Relay

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Surface	DU	Article no.
12	118	692 756	Chromed	1	56350126
Content			Rated Voltage V	QU	
Compressor, compressed air system			12	1	56351131

Trumpet Horn



Power Consumption: 192 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Pneumatic
Material: Aluminium
Air Compressor: with air compressor

Diameter: 80 mm
Info: with hose
with fastening material
Mini Relay

Sound Level dB(A)	Frequency Range Hz	Length mm	Surface	Rated Voltage V	DU	Article no.
110	378 422	350	Chromed	12	1	56352650
				24	1	56352652
Content				Rated Voltage V	QU	
Compressor, compressed air system				12	1	56351131
				24	1	56351132
Accessories				see	DU	
Cap				Page 20	1	56355034



Trumpet Horn



Power Consumption:	240 W	Air Compressor:	with air compressor
Signal Horn:	Triple-tone Trumpet Horn	Info:	with hose
Registration Type:	E-type checked		with fastening material
Operating Mode:	Pneumatic		Mini Relay
Material:	Plastic		

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Colour	DU	Article no.
12	117	595 730 830		1	56350141

Trumpet Horn



Power Consumption:	240 W	Air Compressor:	with air compressor
Signal Horn:	Triple-tone Trumpet Horn	Info:	with hose
Registration Type:	E-type checked		with fastening material
Operating Mode:	Pneumatic		Mini Relay
Material:	Aluminium		

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Surface	DU	Article no.
12	117	595 730 830	Chromed	1	56350146

Trumpet Horn



Signal Horn:	Single-tone Trumpet Horn	Operating Mode:	Pneumatic
Vehicle Equipment:	for vehicles with air compressor	Material:	Aluminium
Registration Type:	E-type checked	Diameter:	160 mm
		Info:	with fastening material

Rated Voltage V	Sound Level dB(A)	Surface	Frequency Range Hz	Length mm	DU	Article no.
24	118	Chromed	176	750	1	56352663
			190	680	1	56352662
			210	600	1	56352661
Accessories			Rated Voltage V	see	DU	
Valve, compressed-air system				Page 27	1	56361403
				Page 27	1	56361651
			24	Page 27	1	56361652

Trumpet Horn



Power Consumption:	200 W	Operating Mode:	Pneumatic
Signal Horn:	Dual-tone Trumpet Horn	Material:	Aluminium
Vehicle Equipment:	for vehicles with air compressor	Diameter:	80 mm
Registration Type:	E-type checked	Info:	with fastening material

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Length mm	Surface	DU	Article no.
12 24	116	282 321	440	Chromed	1	56352651
Accessories			Rated Voltage V	see	DU	
Cap				Page 20	1	56355034
Valve, compressed-air system				Page 27	1	56361403
				Page 27	1	56361651
			24	Page 27	1	56361652
			12	Page 27	1	56361653



Trumpet Horn



The compact construction and simple attachment without connector hoses make these fanfares the ideal solution for small spaces.

Power Consumption: 240 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Pneumatic
Material: Plastic
Air Compressor: with air compressor

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Connector type	Colour	DU	Article no.
12	115	515 620	2 x 6,3 mm		1	56350200

Trumpet Horn



Power Consumption: 240 W
Signal Horn: Single-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Pneumatic
Air Compressor: with air compressor

Sound Level dB(A)	Frequency Range Hz	Connector type	Rated Voltage V		DU	Article no.
110	310	2 x 6,3 mm	12		1	56350201
			24		1	56350202

Trumpet Horn



Power Consumption: 240 W
Signal Horn: Dual-tone Trumpet Horn
Registration Type: E-type checked
Operating Mode: Pneumatic
Air Compressor: with air compressor

Sound Level dB(A)	Frequency Range Hz	Connector type	Rated Voltage V		DU	Article no.
112	520 660	2 x 6,3 mm	12		1	56350203
			24		1	56350204

Cap



Diameter: 80 mm
Material: Plastic

Surface	DU	Article no.
Chromed	1	56355034



pneumatic multi-tone trumpet horn

Trumpet Horn

Power Consumption: 295 W
Signal Horn: Multi-tone Trumpet Horn

Registration Type: E-type checked
not permitted on public roads

Operating Mode: Pneumatic
Material: Plastic
Air Compressor: with air compressor
Info: with hose
with fastening material
Mini Relay

Rated Voltage V	Sound Level dB(A)	Colour	DU	Article no.
12	116		1	56349100

Trumpet Horn

Power Consumption: 295 W
Signal Horn: Multi-tone Trumpet Horn

Registration Type: E-type checked
not permitted on public roads

Operating Mode: Pneumatic
Material: Plastic
Air Compressor: with air compressor
Info: with hose
with fastening material
Mini Relay

Rated Voltage V	Sound Level dB(A)	Colour	DU	Article no.
12	116		1	56349103

Trumpet Horn

Power Consumption: 295 W
Signal Horn: Multi-tone Trumpet Horn

Registration Type: E-type checked
not permitted on public roads

Operating Mode: Pneumatic
Material: Plastic
Air Compressor: with air compressor
Info: with hose
with fastening material
Mini Relay

Rated Voltage V	Sound Level dB(A)	Colour	DU	Article no.
12	116		1	56349105



Electric-pneumatic

Trumpet Horn



Power Consumption: 12 W
Signal Horn: Single-tone Trumpet Horn
Valve type: Relay Valve
Vehicle Equipment: for vehicles with air compressor
Operating Mode: Electric-pneumatic
Material: Plastic
Diameter: 120 mm
Info: with valves

Sound Level dB(A)	Frequency Range Hz	Connector type	Rated Voltage V	Colour	DU	Article no.
123	400	2 x 6,3 mm	12	●	1	56352665
			24	●	1	56352666
Accessories				see	DU	
Valve, compressed-air system				Page 27	1	56361403

Trumpet Horn



Power Consumption: 50 W
Signal Horn: Single-tone Trumpet Horn
Valve type: Solenoid Valve
Vehicle Equipment: for vehicles with air compressor
Registration Type: E-type checked
Operating Mode: Electric-pneumatic
Material: Plastic
Diameter: 108 mm
Info: with fastening material with valves

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Connector type	Colour	DU	Article no.
12 24	114	400	2 x M3	●	1	56352565
Accessories				see	DU	
Valve, compressed-air system				Page 27	1	56361403

Trumpet Horn



Power Consumption: 30 W
Signal Horn: Dual-tone Trumpet Horn
Vehicle Equipment: for vehicles with air compressor
Operating Mode: Electric-pneumatic
Material: Aluminium
Info: with fastening material with integrated relay

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Connector type	Surface	DU	Article no.
24	116	360 402	4 x 6,3 mm	Chromed	1	56352019

Marine

Trumpet Horn



Power Consumption: 60 W
Signal Horn: Single-tone Trumpet Horn
Restriction: Marine
Registration Type: E-type checked
Operating Mode: Electric
Material: Plastic
Diameter: 90 mm
Info: with splash-water protection with cover mesh

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Surface	DU	Article no.
12	108	410	Chromed	1	56360224

Trumpet Horn



Power Consumption: 60 W
Signal Horn: Single-tone Trumpet Horn
Restriction: Marine
Registration Type: with certificate not permitted on public roads
Operating Mode: Electric
Material: Aluminium
Diameter: 100 mm
Info: with splash-water protection

Sound Level dB(A)	Surface	Rated Voltage V	Frequency Range Hz	Length mm	DU	Article no.
112	Chromed	12	370	400	1	56360246
		24	320	470	20	56360237
			370	400	1	56360247



Fanfares for special-purpose vehicles

» HERTH+BUSS FANFARES FOR SPECIAL-PURPOSE VEHICLES



These fanfares are acoustic warning devices for priority road users in accordance with the Road Traffic Licensing Regulations. They are ideal for vehicles that need to be heard in traffic. The Herth+Buss fanfares from the Elparts range have been a tried-and-tested model for fire brigades and police for decades.



Trumpet Horn



- improved design
- Please only use the new compressor.

Signal Horn:	Dual-tone Trumpet Horn	Info:	with hose
Vehicle Equipment:	for vehicles with air compressor		with fastening material
Registration Type:	with TÜV certificate	Special Purpose:	with cap
Operating Mode:	Pneumatic		for fire brigade vehicles
Material:	Aluminium		for police vehicles
Country-spec. model:	Germany		for ambulances

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Surface	DU	Article no.
12 24	115	466 622	Chromed	1	56352180
Accessories		Rated Voltage V	see	DU	
Cap			Page 20	1	56355034
Compressor, compressed air system		24	Page 26	1	56351183
		12	Page 26	1	56351184
Relay, main current			Page 44	1	75613121
		24	Page 49	1	75613122



Trumpet Horn



- improved design
- Please only use the new compressor.

Signal Horn: Dual-tone Trumpet Horn
Registration Type: with TÜV certificate
Operating Mode: Pneumatic
Material: Aluminium
Country-spec. model: Germany
Info: with hose
with fastening material
with cap

Special Purpose: for fire brigade vehicles
for police vehicles
for ambulances

Rated Voltage V	Sound Level dB(A)	Frequency Range Hz	Colour	DU	Article no.
12 24	115	466 622		1	56352186
Accessories		Rated Voltage V	see	DU	
Cap			Page 20	1	56355034
Compressor, compressed air system		24	Page 26	1	56351183
		12	Page 26	1	56351184
Relay, main current			Page 44	1	75613121
		24	Page 49	1	75613122

Signal System, emergency vehicle



Power Consumption: 42 W
Registration Type: E-type checked
Country-spec. model: Germany
Special Purpose: for fire brigade vehicles
for police vehicles
for ambulances

Rated Voltage V	Frequency Range Hz	Number of connectors	Connector	DU	Article no.
12 24	466 622	8		1	56360190



Compressor, compressed air system

Compressor, compressed air system

Power Consumption: 192 W



Druck	Rated Voltage V	DU	Article no.
0,8 to 1,2	12	1	56351131
	24	1	56351132

Compressor, compressed air system

This compressor features a pneumatic oiler.



Power Consumption: 200 W
Country-spec. model: Spain
Germany
Info: with fastening material
Mini Relay

Special Purpose: for fire brigade vehicles
for police vehicles
for ambulances

Druck	Rated Voltage V	DU	Article no.
0,8 to 1	12	1	56351184
	24	1	56351183
Content		QU	
Compressed Air Oiler		1	56365020
Accessories		see	DU
Relay, main current		Page 49	1 75613122
Trumpet Horn		Page 24	1 56352180
		Page 25	1 56352186



Valve, compressed-air system

Valve, compressed-air system



Power Consumption:
Valve type:

10 W
Air Valve

Operating Mode:
Diameter:

Electric
6 mm

Info	Rated Voltage V	DU	Article no.
not adjustable	12	1	56361653
	24	1	56361652

Valve, compressed-air system



Valve type:
Operating Mode:

Air Valve
Manual (hand operated)

Diameter:
Info:

6 mm
with cable pull

	DU	Article no.
	1	56361651

Valve, compressed-air system



Valve type:

Air Valve

Number of connectors	Shape	DU	Article no.
2	T-Piece	1	56361403

Compressed Air Oiler



- Consumption: approx. 1 drop of oil for every 20 seconds of compressor operation
- Recommended oil 40% mineral, 60%

- WD040
- Alternative oil SAE10W40

	DU	Article no.
	1	56365020



Signal units

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Signal Unit	35





Reversing Aid

» BDS-2 LED CLEARANCE LIGHT



BDS-2 LED clearance light with optical reversing sensor Long sensor range with three proximity flash frequencies

A new and innovative product is available to order immediately from the Elparts product range – the BDS-2 clearance light. The purpose of clearance lights is clear and has been established for a long time. A combined light and optical reversing aid, on the other hand, is revolutionary and brings decisive benefits in terms of safety and costs. The system is activated automatically by engaging reverse gear. If the vehicle reverses, the sensor can already detect obstacles from a range of 4.5 metres, meaning the driver can park even the heaviest truck without difficulty. Three different flash frequencies reliably signal the decreasing distance to the obstacle on the road. Even more concrete advantages are provided in terms of costs, too: firstly, the BDS-2 clear-

ance light offers an attractive price/performance ratio in comparison to existing systems and is secondly very easy to install, as a connection to the driving cab of the HGV is not necessary. The lamp can be used in a voltage range from 12 to 24 V and features a stylistically innovative design with a high threshold of perception.

The main advantages at a glance:

- Entirely new product with innovative design
- Attractive price/performance ratio
- Simple optical detection of obstacles
- 4.5 m reversing sensor range
- Very easy installation



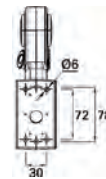
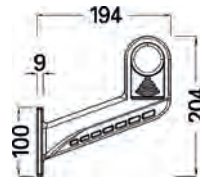
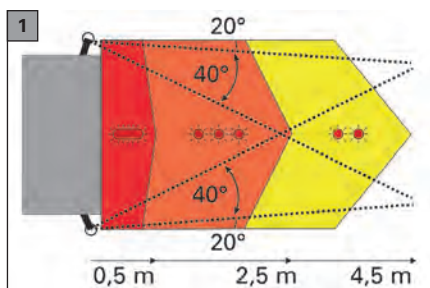
BDS-2

Reversing Aid

The LED clearance light BDS-2 with optical reversing sensor offers crucial safety and cost benefits. On reversing, the sensor detects obstacles as far as away as 4.5 m. Three different flash frequencies provide a reliable indication of the decreasing distance from the obstacle.

- suitable for use in a variety of areas (truck & trailer, agriculture etc.)
- warning signal is visible via the side mirrors
- independent system
- easy mounting
- prevention of injuries and accidents
- prevention of damage to the loading ramps, towing vehicle, trailer or other objects

WxHxD: 194 x 204 x mm
Info: with sensor



Fitting Position	LEDs	Cable Length mm		DU	Article no.
Left Right	8	190		1	82710490
Content	Voltage V	Bulb Type	Fitting Position	QU	
Reversing Aid BDS-2	24	LED	Left	1	82710490001
	12		Right	1	82710490002



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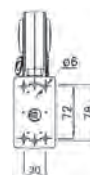
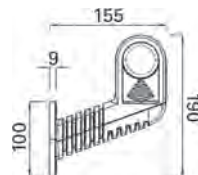
BDS-2 short

Reversing Aid

The LED clearance light BDS-2 with optical reversing sensor offers crucial safety and cost benefits. On reversing, the sensor detects obstacles as far as away as 4.5 m. Three different flash frequencies provide a reliable indication of the decreasing distance from the obstacle.

- suitable for use in a variety of areas (truck & trailer, agriculture etc.)
- warning signal is visible via the side mirrors
- independent system
- easy mounting
- prevention of injuries and accidents
- prevention of damage to the loading ramps, towing vehicle, trailer or other objects

WxHxD: 155 x 190 x mm
Info: with sensor



Fitting Position	Version	LEDs	Cable Length mm	DU	Article no.
Left Right	short	8	190	1	82710470
Content	Voltage V	Bulb Type	Fitting Position	QU	
Reversing Aid BDS-2 short	12 to 24	LED	Left	1	82710470001
			Right	1	82710470002



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» SIGNAL UNITS



Signal units are electrically controlled components, which pass on acoustic signals as a buzz or beep sound. This is particularly helpful when reversing to warn unalert road users with a loud beeping sound. If the driver is lost in thought when he leaves his parked car, a loud buzzing sound draws his attention to the fact the lights are still switched on.

A specific but not uncommon occurrence in rural areas is marten damage. A high-frequency transducer working in the ultrasonic range effectively discourages the clingy little animals from chewing on cables, cooling water hoses and similar lines without causing injury.



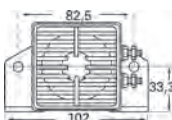
Back-up Alarm



Registration Type: E-type checked
Diameter: 51 mm
Info: with attachment material
with connection line
with plug

Sound Level dB(A)	Rated Voltage V	Frequency Range Hz	Cable Length mm	Connector	DU	Article no.
94	12 24	1164 1280	120		1	56376052

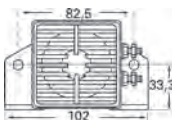
Back-up Alarm



Restriction: Typ C
IP-Code: IP 65
Registration Type: E-type checked
Info: Volume adjusts automatically

Sound Level 1/2 dB(A)	Rated Voltage V	Frequency Range Hz	DU	Article no.
77 / 102	12 24	1300	1	56376050

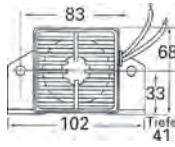
Back-up Alarm



IP-Code: 54
Registration Type: E-type checked

Sound Level dB(A)	Rated Voltage V	Frequency Range Hz	DU	Article no.
110	12 24	1300	1	56376110

Back-up Alarm

Restriction:
IP-Code:Typ C
IP 65

Info:

with connection line

Sound Level dB(A)	Rated Voltage V	Frequency Range Hz	Cable Length mm	DU	Article no.
102	12 24	1200	300	1	56376082



2

Back-up Alarm



Backup alarm with "white noise" – the new norm This new type of backup alarm represents a step forward for every application:

- Sound through broadband technology

- White noise instead of bleeping
- "Shh-Shh" sound
- Reduction in noise pollution
- Better acoustic location

IP-Code:

IP 68

Registration Type:

E-type checked

Sound Level dB(A)	Rated Voltage V	Connector	DU	Article no.
87	12 24		1	56376200

Back-up Alarm



Sound Level dB(A)	Rated Voltage V	Frequency Range Hz	Cable Length mm	Connector	DU	Article no.
90	24	2750	130		1	56376093
Accessories				see	DU	
Combination Rearlight LC9				Katalog06	1	83830069
				Katalog06	1	83830070
				Katalog06	1	83830071
Combination Rearlight LC7				Katalog06	1	83830362
				Katalog06	1	83840362
				Katalog06	1	83840489
				Katalog06	1	83840512
				Katalog06	1	83840513
				Katalog06	1	83840515
				Katalog06	1	83840516
				Katalog06	1	83840519
				Katalog06	1	83840524
				Katalog06	1	83840525
Combination Rearlight				Katalog06	1	83840526
				Katalog06		83840543
Combination Rearlight LC7				Katalog06		83840545
				Katalog06	1	83840547
				Katalog06	1	83840548
Combination Rearlight LC7T				Katalog06	1	83840549
				Katalog06		83840820
Combination Rearlight LC7T				Katalog06	1	83840821
Combination Rearlight LC7T				Katalog06		83840823
				Katalog06	1	83840824
Combination Rearlight LC7T				Katalog06	1	83840825



Back-up Alarm

IP-Code: IP 54



Sound Level dB(A)	Rated Voltage V	Frequency Range Hz	DU	Article no.
90	24	2750	1	56376092
Accessories		see	DU	
Combination Rearlight LC8T		Katalog06	1	83840001
		Katalog06	1	83840008
		Katalog06	1	83840009
Combination Rearlight LC8		Katalog06	1	83840685
		Katalog06	1	83840686
Combination Rearlight LC8T		Katalog06	1	83840689
		Katalog06	1	83840690
		Katalog06	1	83840691
Combination Rearlight LC8		Katalog06	1	83840706
		Katalog06	1	83840707
		Katalog06	1	83840989

Signal Unit



2

Signal Unit



Connecting the product:

- black (minus); connect to ignition "15"
- red (plus); connect to light "56"

Power Consumption:

0,36 W

Registration Type:

E-type checked

WxHxD:

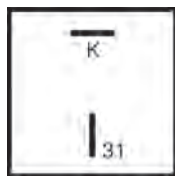
33 x 14 x 16 mm

Info:

with connection line

Sound Level dB(A)	Frequency Range Hz	Cable Length mm	Rated Voltage V	DU	Article no.
68	100	97	12	1	56376168066
			24	1	56376169066

Signal Unit



Information Transfer:

Acoustic

for OE number:

81.25906-0021 MAN

WxHxD:

27 x 55,1 x 24,5 mm

Info:

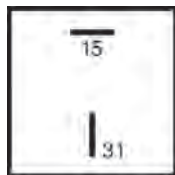
with diode

with retaining strap

42047676 IVECO

Plug Type	Sound Level dB(A)	Frequency Range Hz	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	72	330	24	2 x 6,3 mm	1	75895241
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266

Signal Unit



Information Transfer:

Acoustic

Info:

with retaining strap

WxHxD:

34,5 x 52 x 32,5 mm

Number of Poles:

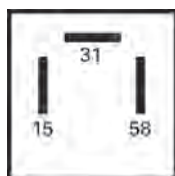
2

for OE number:

81.25906-0030 MAN

Plug Type	Sound Level dB(A)	Frequency Range Hz	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	72	500	24	2 x 6,3 mm	1	75895242
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266

Signal Unit



Information Transfer:

Acoustic

Info:

with retaining strap

WxHxD:

28,4 x 38 x 28,4 mm

Number of Poles:

3

for OE number:

6555 44 Cit/Peug

Plug Type	Sound Level dB(A)	Frequency Range Hz	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	85	4000	12	3 x 6,3 mm	1	75614111
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266



Marten Repellent

2

Shocker 80

Marten Repellent



In order to achieve better protection against martens, a marten repellent should be installed on every entrance hole in the engine compartment. The installation location should be as deep as possible. The device operates in a 12-second cycle (see LED). The device should be installed so that the picture of the marten can be seen through the entrance hole. Should

there be multiple holes, a device should be installed on every side of the engine. The engine must be washed prior to installation or after each time a marten is present, in order to remove scent traces. With a power requirement of approx. 20 mA, the battery will not be discharged. The signal is inaudible to the human ear.

IP-Code: IP 44
WxHxD: 70 x 45 x 50 mm

Info: with LED

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length mm	DU	Article no.
100	12	-40 to +82	40	300 600	1	59415051
Accessories				see	DU	
Screw				Katalog04	5	52285560
Fuse				Katalog04	10	50295050

Marten Repellent



IP-Code: IP 44
WxHxD: 70 x 45 x 50 mm

Info: with LED

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length mm	DU	Article no.
80	12	-40 to +82	20	300 600	1	59415053
Content					QU	
Marten Repellent Shocker 80					1	59415051
Accessories				see	DU	
Screw				Katalog04	5	52285560

Shocker 110

Marten Repellent



More power – More protection – More safety A sound reflection system is used for the first time in a marten repellent. This makes it possible to achieve 360° emission. A convex cone is arranged above a piezoelectric loudspeaker with a NAWI membrane. The cone has the

same shape and diameter as the membrane. This design generates a high noise pressure and a 360° emission. The system operates in approx. 12-second cycles (on/off). The engine must be washed before installing the device.

WxHxD:

70 x 92 x 50 mm

Info:

with LED

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length m	DU	Article no.
110	12	-40 to +80	110	1,00	1	59415052
Accessories				see	DU	
Screw				Katalog04	5	52285560

Marten Repellent



WxHxD:

70 x 92 x 50 mm

Info:

with LED

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length m	DU	Article no.
110	12	-40 to +80	60	1,00	1	59415054
Content					QU	
Marten Repellent Shocker 110					1	59415052
Accessories				see	DU	
Screw				Katalog04	5	52285560



Relays

Central Electric	81
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Relay, engine management control unit	61
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Relay, rear windscreen heating	61
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3



Relay, main current

Multifunctional Relay

3



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» RELAYS



In theory: A relay is an electromagnetic or electromechanical switch, which switches the current flow on or off in circuits. Relays help to keep the cable routes for load paths short to significantly reduce voltage losses in the cables.

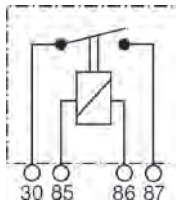
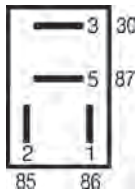
In practice: There are a wide range of relays, which can be

assigned to specific functions/tasks. We offer relays, micro-relays, power relays, flasher relays, as well as interval and time relays that can be set individually. Diodes and diode capsules round off our range. The best solution for any task.





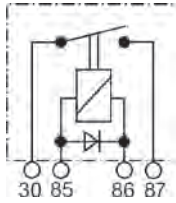
Relay, main current



Rated current: 25 A
Combi Switch Function: Normally Open Contact
WxHxD: 15 x 26 x 23 mm
Number of Poles: 4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 4,8 mm 2 x 6,3 mm	1	75613190
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

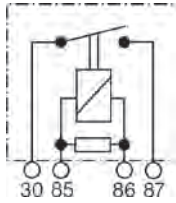
Relay, main current
Multifunctional Relay



Rated current: 25 A
Combi Switch Function: Normally Open Contact
WxHxD: 15 x 26 x 23 mm
Info: with diode

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 4,8 mm 2 x 6,3 mm	1	75613191
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

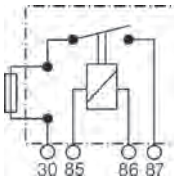
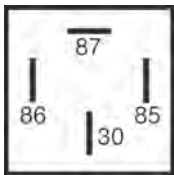
Relay, main current
Multifunctional Relay



Rated current: 25 A
Combi Switch Function: Normally Open Contact
WxHxD: 15 x 26 x 23 mm
Info: with resistor

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 4,8 mm 2 x 6,3 mm	1	75613192
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

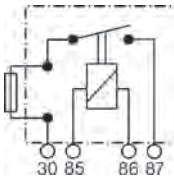
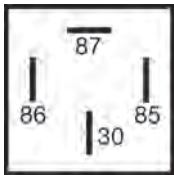
Relay, main current



Rated current: 15 A
Combi Switch Function: Normally Open Contact
WxHxD: 25 x 21 x 30,5 mm
Number of Poles: 4
Info: with fuse with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75613129
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

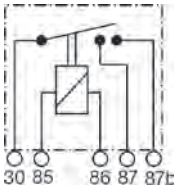
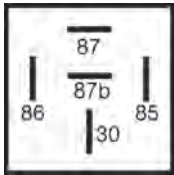
Relay, main current



Rated current: 30 A
Combi Switch Function: Normally Open Contact
WxHxD: 25,8 x 32 x 32,9 mm
Number of Poles: 4
Info: with fuse with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75613113
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current

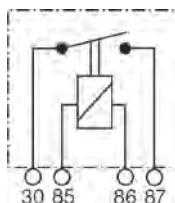
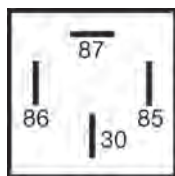


Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 28,5 x 27,5 x 28,5 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613116
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266



Relay, main current



Rated current:
Combi Switch
Function:

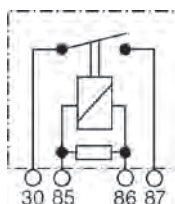
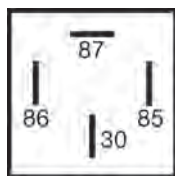
30 A
Normally Open Contact

WxHxD:
Number of Poles:
Info:

27,8 x 25,7 x 27,8 mm
4
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75613121
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current



Rated current:
Combi Switch Function:

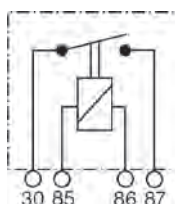
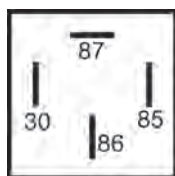
30 A
Normally Open Contact

WxHxD:
Number of Poles:
Info:

27,5 x 21,5 x 27,5 mm
4
with resistor

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75613215
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current



Rated current:
Combi Switch Function:

30 A
Normally Open Contact

WxHxD:
Number of Poles:
Info:

25 x 21,5 x 25 mm
4
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75613114
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current



Rated current:
Combi Switch Function:

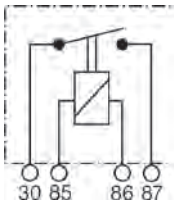
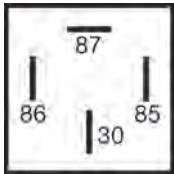
30 A
Normally Open Contact

WxHxD:
Number of Poles:
Info:

55 x 27 x 25 mm
8
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	8 x 6,3 mm	1	75613220

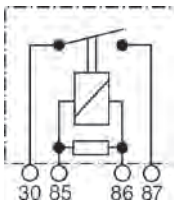
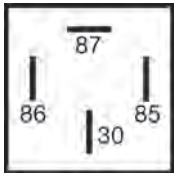
Relay, main current
Multifunctional Relay



Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 26,5 x 25 x 26,5 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	to +70	1	75613184
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266

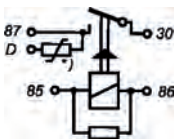
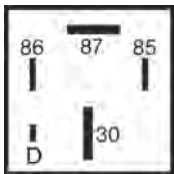
Relay, main current
Multifunctional Relay



Voltage: 12 V
Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 27,5 x 21,5 x 27,5 mm
Number of Poles: 4
Info: with resistor with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75613187
Accessories			see	DU
Relay Socket			Katalog04	5
				50290266

Relay, main current
Multifunctional Relay

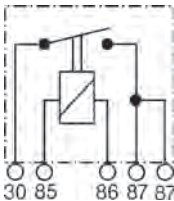


Rated Current: 60 A
Combi Switch Function: Normally Open Contact
WxHxD: 26 x 25 x 26 mm
Number of Poles: 5
Info: with diode
for OE number: 3D0 951 253 A

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 9,5 mm 2 x 6,3 mm 1 x 2,8 mm	1	75613198
Accessories			see	DU
Relay Socket			Katalog04	5
				50390220



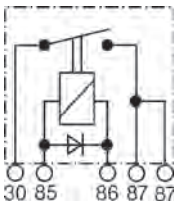
Relay, main current



Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 29 x 27 x 26 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613211
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

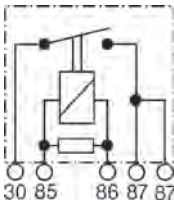
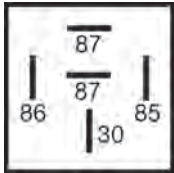
Relay, main current



Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 27,5 x 21,5 x 27,5 mm
Number of Poles: 5
Info: with diode with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613109
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

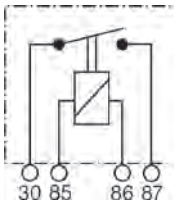
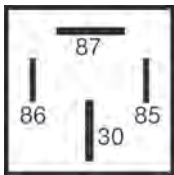
Relay, main current



Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 27,5 x 21,5 x 27,5 mm
Number of Poles: 5
Info: with resistor with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613110
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

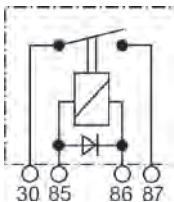
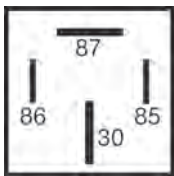
Relay, main current



Rated current: 70 A
Combi Switch Normally Open Contact
Function:
WxHxD: 26,5 x 25 x 26,5 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 6,3 mm 2 x 9,5 mm	1	75613143
Accessories		see	DU	
Relay Socket		Katalog04	5	50390220

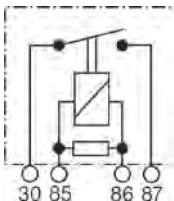
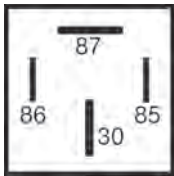
Relay, main current



Rated current: 70 A
Combi Switch Normally Open Contact
Function:
WxHxD: 27 x 38,5 x 27 mm
Number of Poles: 4
Info: with diode
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 6,3 mm 2 x 9,5 mm	1	75613102
Accessories		see	DU	
Relay Socket		Katalog04	5	50390220

Relay, main current
Multifunctional Relay

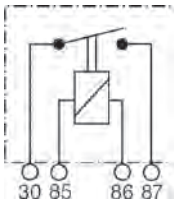
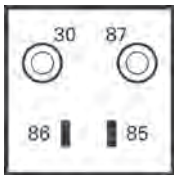


Rated current: 70 A
Combi Switch Normally Open Contact
Function:
WxHxD: 26,5 x 25,1 x 26,5 mm
Number of Poles: 4
Info: with resistor
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 6,3 mm 2 x 9,5 mm	1	75613169
Accessories		see	DU	
Relay Socket		Katalog04	5	50390220



Relay, main current

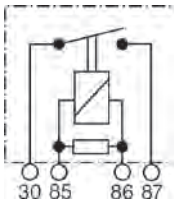
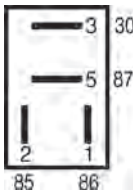


Rated current: 200 A
Combi Switch Function: Normally Open Contact

WxHxD: 46 x 45 x 46 mm
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal Screw Contact	12	2 x 6,3 mm 2 x M6	1	75613100

Relay, main current

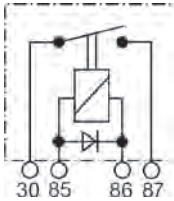


Rated current: 10 A
Combi Switch Function: Normally Open Contact

WxHxD: 23,1 x 26,3 x 15,3 mm
Number of Poles: 4
Info: with resistor

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 6,3 mm 2 x 4,8 mm	1	75613200
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

Relay, main current

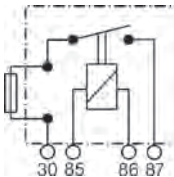
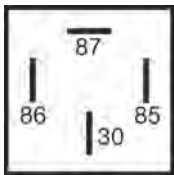


Rated current: 10 A
Combi Switch Function: Normally Open Contact

WxHxD: 23 x 26,3 x 15 mm
Number of Poles: 4
Info: with diode

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 6,3 mm 2 x 4,8 mm	1	75613201
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

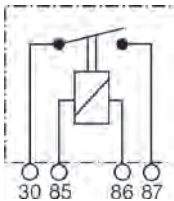
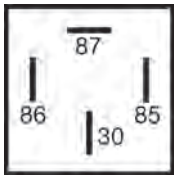
Relay, main current



Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 25,8 x 32,2 x 32,9 mm
Number of Poles: 4
Info: with fuse with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75613137
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

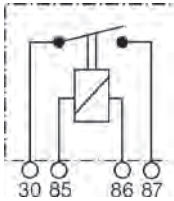
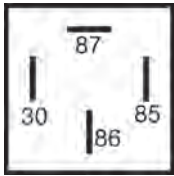
Relay, main current



Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 30 x 30 x 30 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75613122
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current

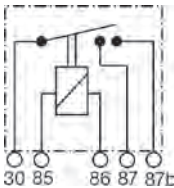
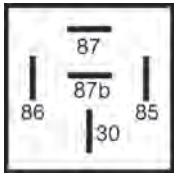


Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 25 x 21,5 x 25 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75613115
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266



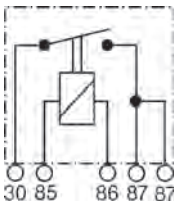
Relay, main current



Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 26,5 x 20,5 x 26,5 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75613117
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

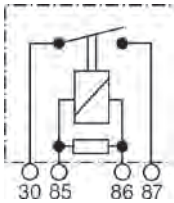
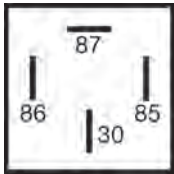
Relay, main current



Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 27,5 x 21,5 x 27,5 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75613212
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

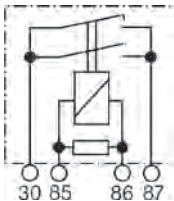
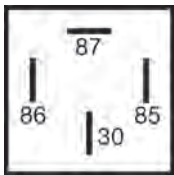
Relay, main current



Rated current: 20 A
Combi Switch Function: Normally Open Contact
WxHxD: 22 x 25 x 26 mm
Number of Poles: 4
Info: with resistor with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75614165
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

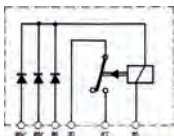
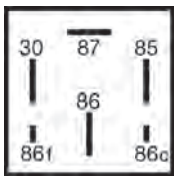
Relay, main current



Rated current: 25 A
Combi Switch Function: Normally Open Contact
WxHxD: 26,5 x 23,5 x 26,5 mm
Info: with resistor

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75899302
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

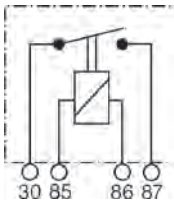
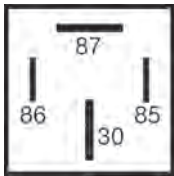
Relay, main current



Rated current: 30 A
Combi Switch Function: Normally Open Contact
WxHxD: 25 x 30 x 25 mm
Number of Poles: 6
for OE number: 695 915 511 A VAG
81.25902-0187 MAN

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 2,8 mm 4 x 6,3 mm	1	75896493
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current

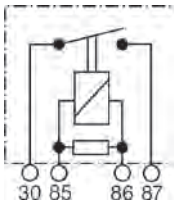
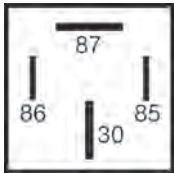


Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 26,5 x 25 x 26,5 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 6,3 mm 2 x 9,5 mm	1	75613124
Accessories		see	DU	
Relay Socket		Katalog04	5	50390220



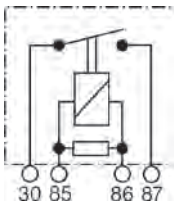
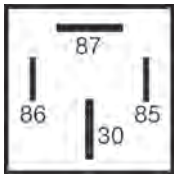
Relay, main current



Rated current: 40 A
Combi Switch Function: Normally Open Contact
WxHxD: 26 x 25 x 26 mm
Number of Poles: 4
Info: with resistor with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 6,3 mm 2 x 9,5 mm	1	75614152
Accessories		see	DU	
Relay Socket		Katalog04	5	50390220

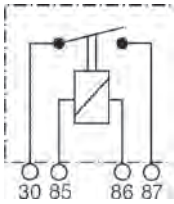
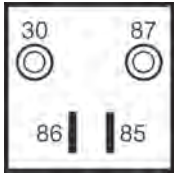
Relay, main current



Rated current: 70 A
Combi Switch Function: Normally Open Contact
WxHxD: 26,4 x 39,8 x 26,4 mm
Info: with resistor with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 6,3 mm 2 x 9,5 mm	1	75613196
Accessories		see	DU	
Relay Socket		Katalog04	5	50390220

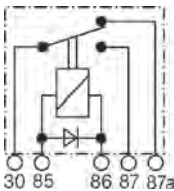
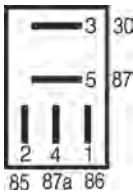
Relay, main current



Rated current: 100 A
Combi Switch Function: Normally Open Contact
WxHxD: 46,3 x 45 x 46,3 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal Screw Contact	24	2 x 6,3 mm 2 x M6	1	75613101

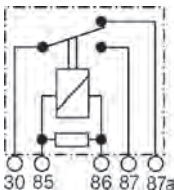
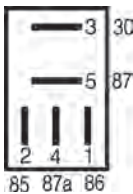
Relay, main current



Rated current: 15 A
25 A
Combi Switch Function: Changeover Contact
WxHxD: 15 x 26 x 23 mm
Number of Poles: 5
Info: with diode

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 4,8 mm 2 x 6,3 mm	1	75613175
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

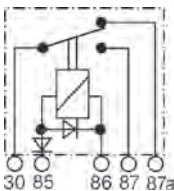
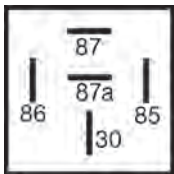
Relay, main current
Multifunctional Relay



Rated current: 20 A
25 A
Combi Switch Function: Changeover Contact
WxHxD: 15 x 26 x 23 mm
Number of Poles: 5
Info: with resistor

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 4,8 mm 2 x 6,3 mm	1	75613177
Accessories		see	DU	
Relay Socket		Katalog04	10	50290309

Relay, main current

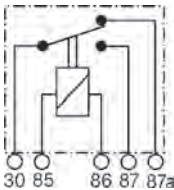
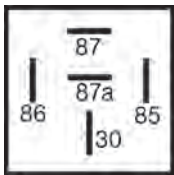


Rated current: 30 A
Combi Switch Function: Changeover Contact
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: with diode

Plug Type	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	-40 to +85	1	75614251
Accessories		see	DU		
Relay Socket		Katalog04	5		50290266



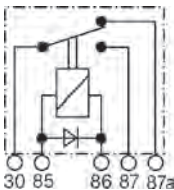
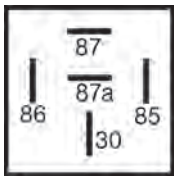
Relay, main current



Rated current: 20 A
30 A
WxHxD: 27,5 x 21,5 x 27,5 mm
Number of Poles: 5
Combi Switch Function: Changeover Contact
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613151
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

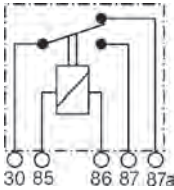
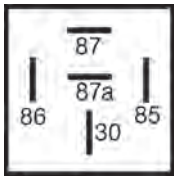
Relay, main current



Rated current: 20 A
30 A
Number of Poles: 5
Info: with diode
with retaining strap
Combi Switch Function: Changeover Contact
WxHxD: 27,5 x 27,5 x 21,5 mm

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613173
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

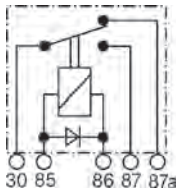
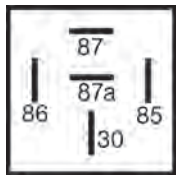
Relay, main current



Rated current: 30 A
40 A
WxHxD: 27 x 26 x 27 mm
Number of Poles: 5
Combi Switch Function: Changeover Contact
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613154
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

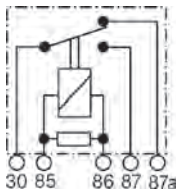
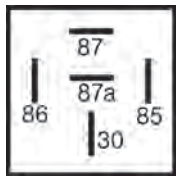
Relay, main current



Rated current: 30 A
40 A
Combi Switch Function: Changeover Contact
WxHxD: 27,5 x 27,5 x 21,5 mm
Number of Poles: 5
Info: with diode
with retaining strap

Plug Type	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	-40 to +85	1	75613223

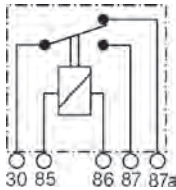
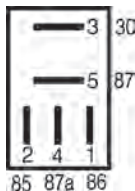
Relay, main current



Rated current: 30 A
40 A
Combi Switch Function: Changeover Contact
WxHxD: 27 x 26 x 27 mm
Number of Poles: 5
Info: with resistor
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75613197
Accessories			see	DU
Relay Socket			Katalog04	50290266

Relay, main current

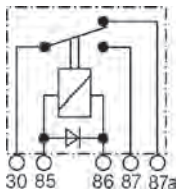
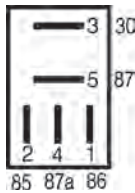


Rated current: 5 A
10 A
Combi Switch Function: Changeover Contact
WxHxD: 15 x 26 x 23 mm
Number of Poles: 5

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	3 x 4,8 mm 2 x 6,3 mm	1	75613176
Accessories			see	DU
Relay Socket			Katalog04	10 50290309



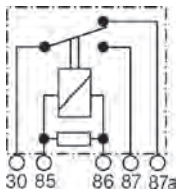
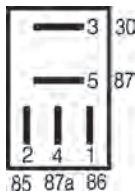
Relay, main current



Rated current: 10 A 20 A
Combi Switch Function: Changeover Contact
WxHxD: 23 x 26 x 15 mm
Number of Poles: 5
Info: with diode

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	3 x 4,8 mm 2 x 6,3 mm	1	75613193
Accessories			see	DU
Relay Socket			Katalog04 10	50290309

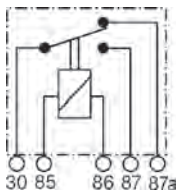
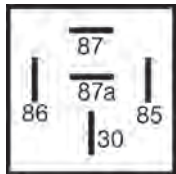
Relay, main current



Rated current: 5 A 10 A
Combi Switch Function: Changeover Contact
WxHxD: 23 x 26 x 15 mm
Number of Poles: 5
Info: with resistor

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	2 x 6,3 mm 3 x 4,8 mm	1	75613202
Accessories			see	DU
Relay Socket			Katalog04 10	50290309

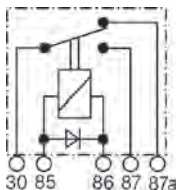
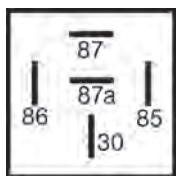
Relay, main current



Rated current: 10 A 20 A
Combi Switch Function: Changeover Contact
WxHxD: 27,5 x 21,5 x 27,5 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75613152
Accessories			see	DU
Relay Socket			Katalog04 5	50290266

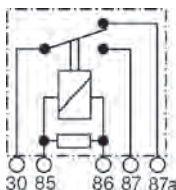
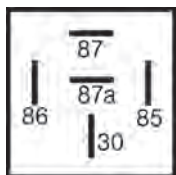
Relay, main current



Rated current: 10 A
20 A
Combi Switch Function: Changeover Contact
WxHxD: 33 x 22 x 33 mm
Number of Poles: 5
Info: with diode
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75613164
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

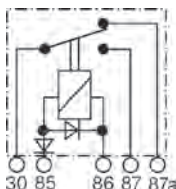
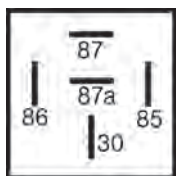
Relay, main current



Rated current: 10 A
20 A
Combi Switch Function: Changeover Contact
WxHxD: 28 x 21 x 28 mm
Info: with resistor
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75613103
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, main current

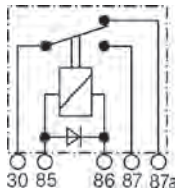
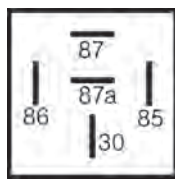


Rated current: 30 A
Combi Switch Function: Changeover Contact
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: with diode

Plug Type	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	-40 to +85	1	75614154
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266



Relay, main current

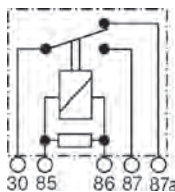
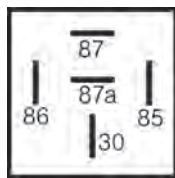


Rated current: 10 A
30 A
Combi Switch Function: Changeover Contact
WxHxD: 26 x 25 x 26 mm
Number of Poles: 5

Info: with diode
without retaining
strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75614180
Accessories			see	DU
Relay Socket			Katalog04	5 50290266

Relay, main current

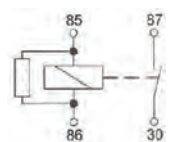


Rated current: 20 A
30 A
Combi Switch Function: Changeover Contact
WxHxD: 29 x 26,5 x 29 mm
Number of Poles: 5

Info: with resistor
without retaining
strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75613222
Accessories			see	DU
Relay Socket			Katalog04	5 50290266

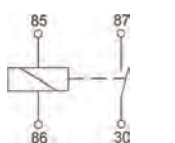
Relay, main current Multifunctional Relay



Rated Current: 75 A
Combi Switch Function: High Performance
Contact
IP 5K4
Fastening Type: Flange mounting
WxHxD: 44 x 39 x 35 mm
Number of Poles: 4
Info: with resistor

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
12	2 x M5 2 x 6,3 mm	-40 to +85	1	75614381

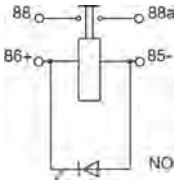
Relay, main current Relay, starter



Rated current: 50 A
Combi Switch Function: High Performance
Contact
IP 5K4
Fastening Type: Flange mounting
WxHxD: 44 x 39 x 35 mm
Number of Poles: 4

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
24	2 x M5 2 x 6,3 mm	-40 to +85	1	75614382

Relay, main current



Rated current:

Combi Switch

Function:

IP-Code:

200 A

High Performance Contact

IP 67

Fastening Type:

Number of Poles:

Info:

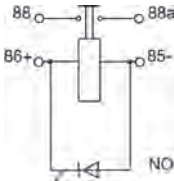
Flange mounting

4

with suppression diode

Plug Type	Connector type	Temperature range °C	Rated Voltage V	DU	Article no.
Screw Contact	2 x M10 2 x M4	-40 to +85	12	1	75613302
			24	1	75613312

Relay, main current



Rated current:

Combi Switch

Function:

IP-Code:

300 A

High Performance Contact

IP 67

Fastening Type:

Number of Poles:

Info:

Flange mounting

4

with suppression diode

Plug Type	Connector type	Rated Voltage V	Temperature range °C	DU	Article no.
Screw Contact	2 x M10 2 x M4	12	-40 to +85	1	75613303
		24	-40 to +80	1	75613313



3

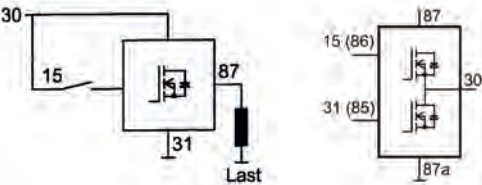


» TECHNICAL INFORMATION

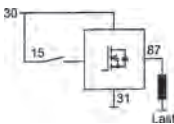
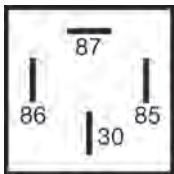


Semiconductor relays are suitable for switching lamp loads, ohmic and inductive loads. They switch noiselessly and are completely wear-resistant.

They are compatible with conventional ISO mini relays with regard to their size and plug configuration. Semiconductor relays are short-circuit resistant, have overload protection and are protected against overtemperature. In the event of a short circuit, they switch off faster than a fuse and have a low closed-circuit current requirement of approx. 50 µA. Semiconductor relays are available with positive or negative activation.



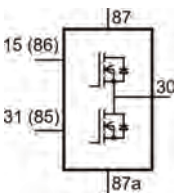
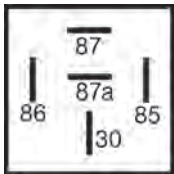
Relay, main current



Voltage: 9 to 30 V
Rated current: 25 A
Combi Switch Function: Normally Open Contact
IP-Code: IP 53
WxHxD: 30 x 30 x 30 mm
Number of Poles: 4
Info: without retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	1	75614201
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

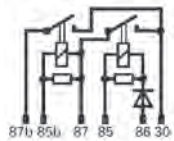
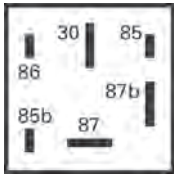
Relay, main current



Voltage: 9 to 30 V
Rated current: 5 A
Combi Switch Function: Changeover Contact
IP-Code: IP 53
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: without retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	1	75614202
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, engine management control unit



Rated Current:

15 A

Number of Poles:

6

WxHxD:

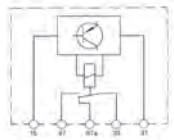
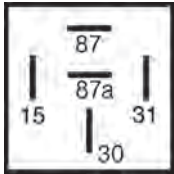
30 x 42 x 30 mm

for OE number:

944 615 227 00 VAG

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm 3 x 2,8 mm	1	75896368
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, rear windscreen heating



Rated Current:

5 A

for OE number:

A 001 545 56 05 DB

WxHxD:

30 x 42 x 30 mm

Rated Voltage V	Connector type	Adjustment Range sec.	DU	Article no.
24	5 x 6,3 mm	0,7	1	75898211
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266



3



Relay, main current

Multifunctional Relay

3



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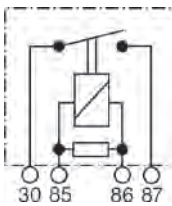
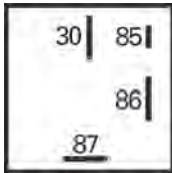


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Relay, main current Multifunctional Relay

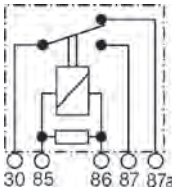
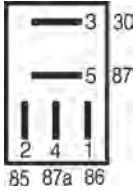


Rated current: 15 A
Combi Switch Function: Normally Open Contact
WxHxD: 28 x 25 x 28 mm
Number of Poles: 4

Info: with resistor without retaining strap
for OE number: 1J0 906 381 B

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
12	1 x 6,3 mm 2 x 9,5 mm 1 x 2,8 mm	-40 to +85	1	75614600

Relay, main current Multifunctional Relay

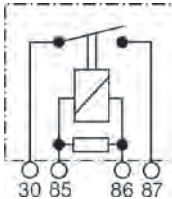
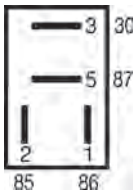


Rated Current: 10 A
20 A
Combi Switch Function: Changeover Contact
WxHxD: 23 x 26 x 15,5 mm

Number of Poles: 5
Info: with resistor
for OE number: 4H0 951 253 C

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
12	2 x 6,3 mm 3 x 4,8 mm	-40 to +85	1	75614601

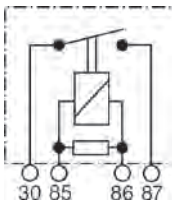
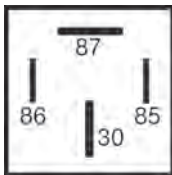
Relay, main current
Multifunctional Relay



Rated Current: 30 A
Combi Switch Function: Normally Open
WxHxD: 23 x 26 x 15,5 mm
Number of Poles: 4
Info: with resistor
for OE number: 1K0 951 253

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
12	2 x 6,3 mm 3 x 4,8 mm	-40 to +85	1	75614602

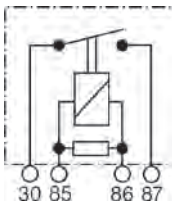
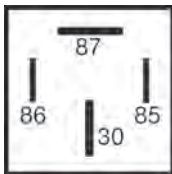
Relay, main current
Multifunctional Relay



Rated Current: 60 A
Combi Switch Function: Normally Open
WxHxD: 25,9 x 24,9 x 25,9 mm
Number of Poles: 4
Info: with resistor
for OE number: 1K0 951 253 A

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
12	2 x 6,3 mm 2 x 9,5 mm	-40 to +90	1	75614603

Relay, main current
Multifunctional Relay



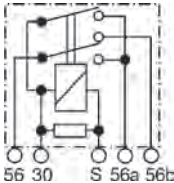
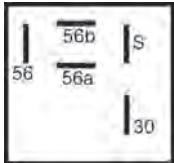
Rated Current: 70 A
Combi Switch Function: Normally Open
WxHxD: 28 x 25 x 28 mm
Number of Poles: 4
Info: with resistor
for OE number: 4H0 951 253

Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
12	2 x 6,3 mm 2 x 9,5 mm	-40 to +85	1	75614604



Relay, low beam

Relay, low beam



Rated Power: 2 x 150 W
WxHxD: 31,9 x 30,5 x 33,9 mm
Info: with resistor
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75899210

Relay, wipe-/wash interval



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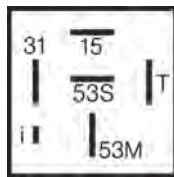


3



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Relay, wipe-/wash interval



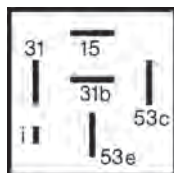
Programmable interval relay In the position "interval operation", the wiper motor is switched on at fixed intervals for one wipe move-

ment each time. However, the fixed interval may be changed/programmed as desired.

Rated Current: 30 A **WxHxD:** 30 x 45 x 30 mm

Plug Type	Rated Voltage V	adjustment range s	DU	Article no.
Blade Terminal	12	0,5 to 20	1	75614115
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, wipe-/wash interval

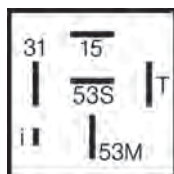


Rated Current: 5 A **WxHxD:** 30 x 40 x 30 mm

Number of Poles: 6

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm 1 x 2,8 mm	1	75614012
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Relay, wipe-/wash interval



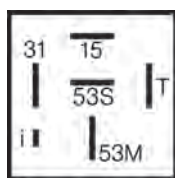
Rated Current: 2 A **WxHxD:** 30 x 40 x 30 mm

Number of Poles: 6

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm 1 x 2,8 mm	1	75614013
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266



Relay, wipe-/wash interval



Rated Current:
WxHxD:

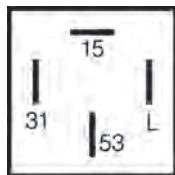
10 A
30 x 40 x 30 mm

Number of Poles:

6

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm 1 x 2,8 mm	1	75614020
Accessories			see	DU
Relay Socket			Katalog04	5 50290266

Relay, wipe-/wash interval



Rated Current:
Combi Switch Function:

30 A
with rear wiper
function

WxHxD:

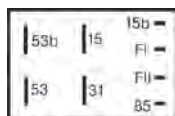
30 x 30 x 30 mm

Number of Poles:

4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75614029
Accessories			see	DU
Relay Socket			Katalog04	5 50290266

Relay, wipe-/wash interval



Rated Current:
WxHxD:

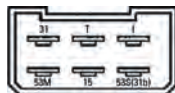
10 A
75 x 30 x 30 mm

Number of Poles:

8

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm 4 x 2,8 mm	1	75614114

Relay, wipe-/wash interval



WxHxD:

61,2 x 78 x 33,5 mm

Number of Poles:

6

Info:

with retaining strap

Plug Type	Connector type	Rated Voltage V	DU	Article no.
Blade Terminal	6 x 6,3 mm	12	1	75614302
		24	1	75614303

Relay, wipe-/wash interval



WxHxD:

60 x 70 x 30 mm

Number of Poles:

16

for OE number:

4B0 955 531 C

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	6 x 2,8 mm 10 x 6,3 mm	1	75614931

Flasher Unit

LED



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LED



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LED



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LED | Bulb Technology



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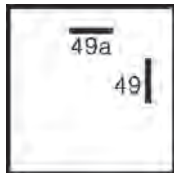
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Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:

0,1 - 30 W
Plugged
Electronic

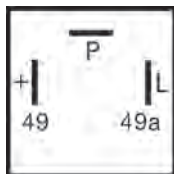
Light Design:
WxHxD:
Info:

LED
28,4 x 38 x 28,4 mm
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 6,3 mm	1	75605030
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:

0,1 - 30 W
Plugged
Electronic

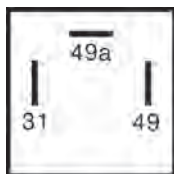
Light Design:
WxHxD:
Info:

LED
28,4 x 38 x 28,4 mm
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm	1	75605031
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:

0,1 - 30 W
Plugged
Electronic

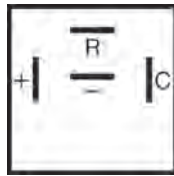
Light Design:
WxHxD:
Info:

LED
28,4 x 38 x 28,4 mm
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm	1	75605032
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:

0,1 - 30 W
Plugged
Electronic

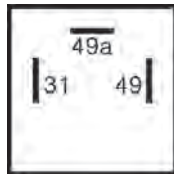
Light Design:
WxHxD:
Info:

LED
28,4 x 38 x 28,4 mm
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75605033
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:

0,1 - 40 W
Plugged
Electronic

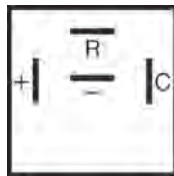
Light Design:
WxHxD:
Info:

LED
28,4 x 38 x 28,4 mm
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	3 x 6,3 mm	1	75605034
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:
Light Design:

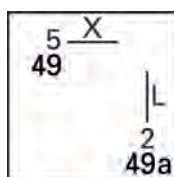
0,1 - 40 W
Plugged
Electronic
LED

WxHxD:
Number of Poles:
Info:

28,4 x 38 x 28,4 mm
4
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605035
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit



This 2-pin flasher unit is non-polarized. Can be used as an immediate solution in all vehicles.

Switching Capacity:
Mounting Type:
Operating Mode:

10 - 180 W
Plugged
Electronic

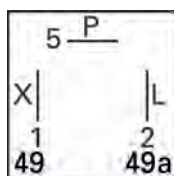
WxHxD:
Number of Poles:
Info:

28,4 x 38 x 28,4 mm
2
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	2 x 6,3 mm	1	75605020
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266



Flasher Unit

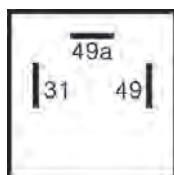


This 3-pin flasher unit is non-polarized. Can be used as an immediate solution in all vehicles.

Switching Capacity: 10 - 180 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 28,4 x 38 x 28,4 mm
Number of Poles: 3
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm	1	75605021
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

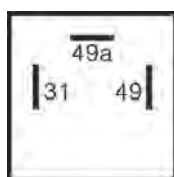
Flasher Unit



Switching Capacity: 2/4 x 21 + 4 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 3
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm	1	75605046
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

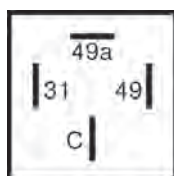
Flasher Unit



Switching Capacity: 2/4 x 21 + 5 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 30 x 30 mm
Number of Poles: 3

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm	1	75605148
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

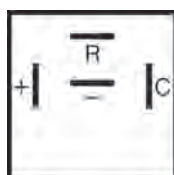
Flasher Unit



Switching Capacity: 2/4 x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75605078
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

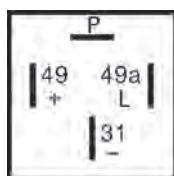
Flasher Unit



Switching Capacity: 2/4 x 21 + 0-10 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75605080
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

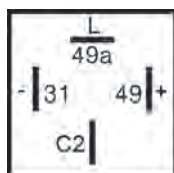
Flasher Unit



Switching Capacity: 1(2) - 4(8) x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30,7 x 55,5 x 30,7 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75605173
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

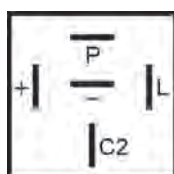


Switching Capacity: 3 + 1 x 21 (8x21) W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30,7 x 55,5 x 30,7 mm
Number of Poles: 4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm	1	75605177
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED

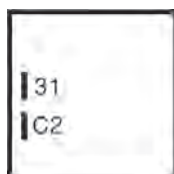
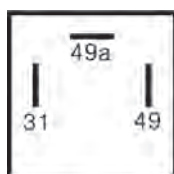


This flasher unit can be used both with conventional 21 W and with ISO LED (according to 13207-1). Both consumers operate with a failure management system. As stated in the data sheet, it is necessary to use at least 21 W lights for ISO LEDs.

Switching Capacity: 2 + 1 x 21 (6x21) W
Mounting Type: Plugged
Operating Mode: Electronic
Light Design: LED
Info: Bulb Technology
WxHxD: 33,5 x 40 x 33,5 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1	75605176
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit

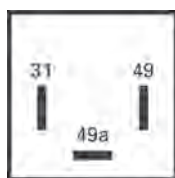


Switching Capacity: 2 + 1/6 x 21 + 5 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 30 x 30 mm
Number of Poles: 5

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm 2 x 2,8 mm	1	75605093
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266
Control Lamp		Katalog06	1	85780680



Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

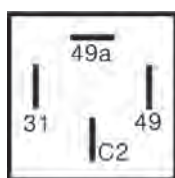
2 + 1/6 x 21 + 5 W
Plugged
Electronic

WxHxD:
Number of Poles:

30 x 30 x 30 mm
3

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	3 x 6,3 mm 2 x 2,8 mm	1	75605094
Accessories		see	DU	
Control Lamp		Katalog06	1	85780680
Relay Socket		Katalog04	5	50290266

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

2 + 1/6 x 21 + 5 W
Plugged
Electronic

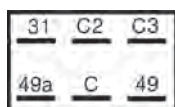
WxHxD:
Number of Poles:

30 x 30 x 30 mm
4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	4 x 6,3 mm 2 x 2,8 mm	1	75605096
Accessories		see	DU	
Control Lamp		Katalog06	1	85780680
Relay Socket		Katalog04	5	50290266

Flasher Unit

LED



Switching Capacity:
Mounting Type:
Operating Mode:
Light Design:

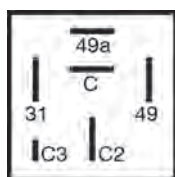
2 + 1 + 1 / 8x21 W
Plugged
Electronic
LED
Bulb Technology

WxHxD:
Number of Poles:
Info:

30 x 79 x 35 mm
6
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	6 x 6,3 mm	1	75605146
Accessories		see	DU	
Plug Housing Fastin-Faston (TE Connectivity)		Katalog04	10	50290252

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

2 + 1 + 1/8 x 21 W
Plugged
Electronic

Light Design:
WxHxD:
Number of Poles:

Bulb Technology
30 x 50 x 30 mm
6

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	6 x 6,3 mm	1	75605147
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

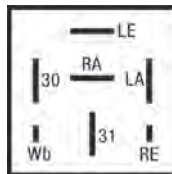
Flasher Unit



Switching Capacity: 2/4 x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 39 x 57 x 33 mm
Number of Poles: 7
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	7 x 6,3 mm	1	75605130

Flasher Unit



Switching Capacity: 2/4 x 21 + 0-5 W
Operating Mode: Electronic
WxHxD: 30 x 50 x 30 mm
for OE number: 61 36 1 388566
61 36 1 388533

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	5 x 6,3 mm 2 x 2,8 mm	1	75605151
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

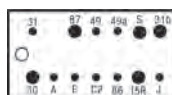
Flasher Unit



Switching Capacity: 6 x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 60 x 60 x 30 mm
Number of Poles: 8

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12	8 x 6,3 mm	1	75605083

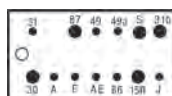
Flasher Unit



Switching Capacity: 2 + 1/6 x 21 W
Operating Mode: Electronic
Clamp: C2
WxHxD: 80 x 57 x 33 mm
for OE number: A 201 821 01 47

Plug Type	Rated Voltage V	Number of connectors	DU	Article no.
Round Plug	12	13	1	75605127

Flasher Unit

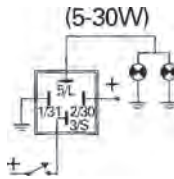
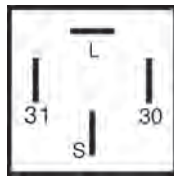


Switching Capacity: 2 + 1/6 x 21 W
Operating Mode: Electronic
WxHxD: 80 x 57 x 33 mm
Info: for trailer
for OE number: A 201 821 02 47

Plug Type	Rated Voltage V	Number of connectors	DU	Article no.
Round Plug	12	13	1	75605154



Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

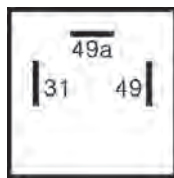
1 - 30 W
Plugged
Electronic

WxHxD:
Number of Poles:

30 x 42 x 30 mm
4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	1	75605155
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

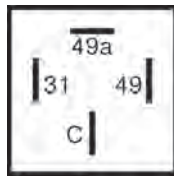
2/4 x 21 W
Plugged
Electronic

WxHxD:
Number of Poles:
Info:

30 x 40 x 30 mm
3
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	3 x 6,3 mm	1	75605132
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

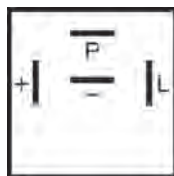
2(4) x 21 W
Plugged
Electronic

WxHxD:
Number of Poles:
Info:

30 x 40 x 40 mm
4
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605133
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

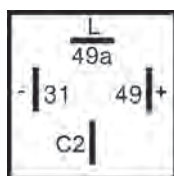
2(4) x 21 W
Plugged
Electronic

WxHxD:
Number of Poles:
Info:

30,7 x 55,5 x 33,7 mm
4
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605174
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

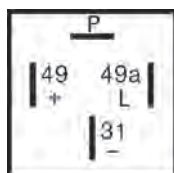
Flasher Unit



Switching Capacity: 2 + 1x21 + 5 (6x21) W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 33,7 x 55,5 x 33,7 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605175
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

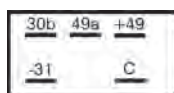
Flasher Unit



Switching Capacity: 1(2) - 4(8) x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30,7 x 55,5 x 30,7 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605172
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266

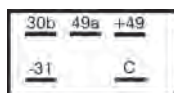
Flasher Unit



Switching Capacity: 3(6) x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
Hole Pitch: 82 mm
WxHxD: 60 x 60 x 30 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75605134
Accessories		see	DU	
Plug Housing Fastin-Faston (TE Connectivity)		Katalog04	10	50290252

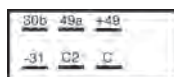
Flasher Unit



Switching Capacity: 4(8) x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
Hole Pitch: 82 mm
WxHxD: 60 x 60 x 30 mm
Number of Poles: 5
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	5 x 6,3 mm	1	75605135

Flasher Unit



Switching Capacity: 2 + 1(6) x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
Hole Pitch: 82 mm
WxHxD: 60 x 60 x 30 mm
Number of Poles: 6
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	6 x 6,3 mm	1	75605137



Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:

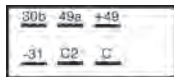
2 + 1 x 21 + 5 W
Plugged
Electronic

WxHxD:
Number of Poles:

60 x 60 x 33 mm
6

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	6 x 6,3 mm	1	75605178
Accessories		see	DU	
Plug Housing Fastin-Faston (TE Connectivity)		Katalog04	10	50290252

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:
Hole Pitch:

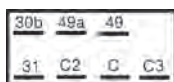
3 + 1(8) x 21 W
Plugged
Electronic
82 mm

WxHxD:
Number of Poles:
Info:

60 x 60 x 30 mm
6
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	6 x 6,3 mm	1	75605139

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:
Hole Pitch:

2 + 1 + 1(8) x 21 W
Plugged
Electronic
82 mm

WxHxD:
Number of Poles:
Info:

60 x 60 x 30 mm
7
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	7 x 6,3 mm	1	75605142

Flasher Unit



Switching Capacity:
Operating Mode:

(2 + 1) x 21 W
Electronic

WxD:

61 x 30 mm

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	9 x 6,3 mm	1	75895112

Flasher Unit



Operating Mode:

Electronic

WxHxD:

62 x 50,5 x 31 mm

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	10 x 6,3 mm	1	75892702

Flasher Unit



Switching Capacity:
Mounting Type:
Operating Mode:
Hole Pitch:

2 + 1 + 1/8 x 21 W
Plugged
Electronic
86 mm

WxHxD:
Number of Poles:
Info:

72 x 31 x 57 mm
12
with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	12 x 6,3 mm	1	75892685

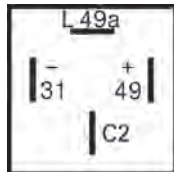
Flasher Unit



Switching Capacity: 3 + 1 + 1/10 x 21 W
Mounting Type: Plugged
Operating Mode: Electronic
Hole Pitch: 84 mm
WxHxD: 72 x 31 x 57 mm
Number of Poles: 12
Info: with retaining strap

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	12 x 6,3 mm	1	75892686

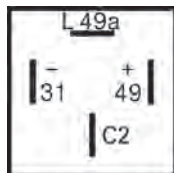
Flasher Unit



Switching Capacity: 3 + 1 x 21W (8x21W) W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605179

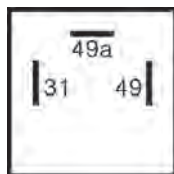
Flasher Unit



Switching Capacity: 4 + 1 x 21(10x21W) W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 4

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Blade Terminal	24	4 x 6,3 mm	1	75605180

Flasher Unit

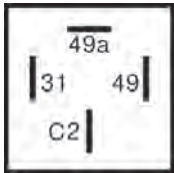


Pulse generators work regardless of load and do not analyse lamp load. No lamp failure monitoring, therefore forbidden in many countries for use in street lighting.
 ■ Construction vehicles, hydraulic platforms, rotating beacons
Switching Capacity: 170 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 3
Info: with retaining strap

Plug Type	Connector type	Rated Voltage V	DU	Article no.
Blade Terminal	3 x 6,3 mm	12	1	75605123
		24	1	75605124
Accessories		see	DU	
Relay Socket		Katalog04	5	50290266



Flasher Unit



Pulse generators work regardless of load and do not analyse lamp load. No lamp failure monitoring, therefore forbidden in many coun-

tries for use in street lighting.

- Construction vehicles, hydraulic platforms, rotating beacons

Switching Capacity: 170 W
Mounting Type: Plugged
Operating Mode: Electronic
WxHxD: 30 x 40 x 30 mm
Number of Poles: 4
Info: with retaining strap

Plug Type	Connector type	Rated Voltage V	DU	Article no.
Blade Terminal	4 x 6,3 mm	12	1	75605125
		24	1	75605126
Accessories			see	DU
Relay Socket			Katalog04	5
				50290266

Time Relay



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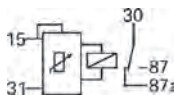
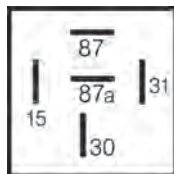


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3

Time Relay

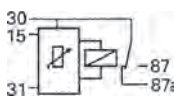
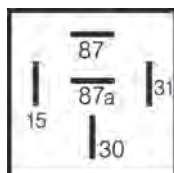


With adjustable time relays with a switch-on delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at terminal 30. Voltage at terminal 15 means that the relay is switched on with a delay after the set time. If the voltage is removed from terminal 15, the relay switches off immediately.

Rated Current: 10 A
Connector: Supply terminal 15
IP-Code: IP 54
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: Switch-on delay

Plug Type	Connector type	Rated Voltage V	adjustment range s	DU	Article no.
Blade Terminal	5 x 6,3 mm	12	1 to 30	1	75614203
			30 to 900	1	75614069
		24	0 to 30	1	75614204
			30 to 900	1	75614074
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266

Time Relay



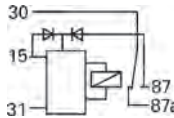
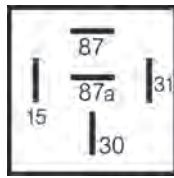
With adjustable time relays with a switch-on delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at terminal 30. Voltage at terminal 15 means that the relay is switched on with a delay after the set time. If the voltage is removed from terminal 15, the relay switches off immediately.

Rated Current: 10 A
Connector: Supply terminal 30
IP-Code: IP 54
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: Switch-on delay

Plug Type	Connector type	Rated Voltage V	adjustment range s	DU	Article no.
Blade Terminal	5 x 6,3 mm	12	0,5 to 30	1	75614205
			120	20	75614205120
			30 to 900	1	75614003
		24	0,5 to 30	1	75614206
			30 to 900	1	75614004
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266



Time Relay



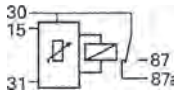
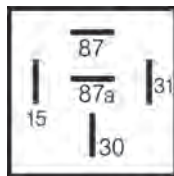
With adjustable time relays with a switch-off delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at terminal 30. Voltage at terminal 15 means that the relay is switched on immediately. If the

voltage is removed from terminal 15, the relay is switched off after the set time has elapsed. In a time relay with diodes, the relay does not consume any closed current after being switched off due to the diode circuitry. Applications: delayed switch-off for fans and lighting

Rated Current: 10 A
IP-Code: IP 54
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: Switch-off delay

Plug Type	Connector type	Rated Voltage V	adjustment ranges	DU	Article no.
Blade Terminal	5 x 6,3 mm	12	0 to 30	1	75614194
			120	1	75614001120
			30 to 900	1	75614001
		24	1 to 30	1	75614195
			30 to 900	1	75614002
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266

Time Relay



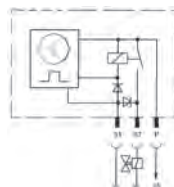
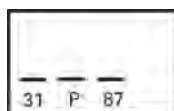
With adjustable time relays with a switch-off delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at terminal 30. Voltage at terminal 15 means that the relay is switched on immediately. If the

voltage is removed from terminal 15, the relay is switched off after the set time has elapsed. In a time relay with diodes, the relay does not consume any closed current after being switched off due to the diode circuitry. Applications: delayed switch-off for fans and lighting

Rated Current: 10 A
Connector: Supply terminal 30
IP-Code: IP 54
WxHxD: 30 x 40 x 30 mm
Number of Poles: 5
Info: Switch-off delay

Plug Type	Connector type	Rated Voltage V	adjustment range s	DU	Article no.
Blade Terminal	5 x 6,3 mm	12	0 to 30	1	75614207
			30 to 900	1	75614005
		24	1 to 30	1	75614210
			30 to 900	1	75614068
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266

Time Relay



Rated Current: 15 A
WxHxD: 42,5 x 45,3 x 27,5 mm
Number of Poles: 3
Info: with holder
Switch-off delay

for OE number: 81.25902-0376

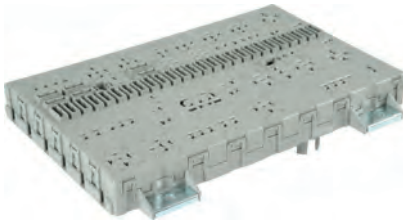
Plug Type	Rated Voltage V	Connector type	adjustment ranges	DU	Article no.
Blade Terminal	24	3 x 6,3 mm	40	1	75898128

Central Electric

Central Electric

for OE number:

81.25444-6060



Rated Voltage V	DU	Article no.
24	1	75896055



3



Diode

3



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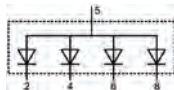
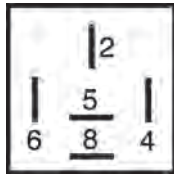


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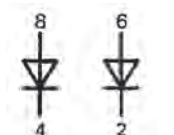
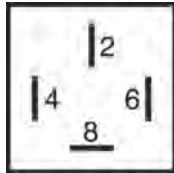
Diode



Voltage:	1300 V	Mounting Type:	Plugged
Rated current:	3 A	Diode Type:	Avalanche Diode
Capacity at 12V:	12 A	WxHxD:	30 x 30 x 30 mm
Capacity at 24V:	6 A		

Plug Type	Conductor Number	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	4	12 24	5 x 6,3 mm	-40 to +85	1	75614150
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266

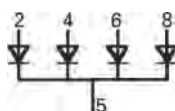
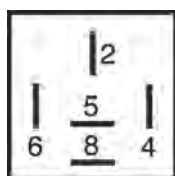
Diode



Voltage:	1300 V	Capacity at 24V:	3 A
Rated current:	3 A	Diode Type:	Avalanche Diode
Capacity at 12V:	6 A	WxHxD:	30 x 30 x 30 mm

Plug Type	Conductor Number	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	2	12 24	4 x 6,3 mm	-40 to +85	1	75614155
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266

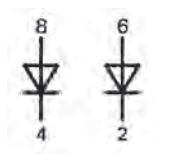
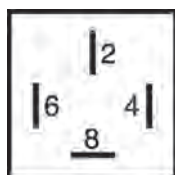
Diode



Voltage: 1300 V **Capacity at 24V:** 6 A
Rated current: 3 A **Diode Type:** Avalanche Diode
Capacity at 12V: 12 A **WxHxD:** 30 x 30 x 30 mm

Plug Type	Conductor Number	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	4	12 24	5 x 6,3 mm	-40 to +85	1	75614161
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266

Diode



Voltage: 1300 V **Capacity at 24V:** 6 A
Rated current: 3 A **Diode Type:** Avalanche Diode
Capacity at 12V: 12 A **WxHxD:** 30 x 30 x 30 mm

Plug Type	Conductor Number	Rated Voltage V	Connector type	Temperature range °C	DU	Article no.
Blade Terminal	2	12 24	4 x 6,3 mm	-40 to +85	1	75614182
Accessories				see	DU	
Relay Socket				Katalog04	5	50290266

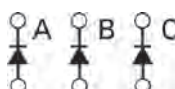
Diode



Voltage: 1300 V **Housing material:** Sheet Steel
Rated current: 3 A **Diode Type:** Switch Diode **Polyamid 6**
Version: BY255 (AK335.1) **WxHxD:** 33 x 28 x mm
Hole Pitch: 60 mm

Plug Type	Conductor Number	Rated Voltage V	Connector type	Length mm	DU	Article no.
Blade Terminal	4	12 24	8 x 6,3 mm	50	1	50292010

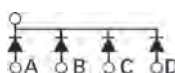
Diode



Voltage: 1300 V **Version:** BY255 (AK335.2)
Rated current: 3 A **Hole Pitch:** 60 mm
Diode Type: Switch Diode **WxHxD:** 33 x 28 x mm

Plug Type	Conductor Number	Rated Voltage V	Connector type	Length mm	DU	Article no.
Blade Terminal	3	12 24	6 x 6,3 mm	50	1	50292011

Diode



Voltage: 1300 V **Version:** BY255 (AK335.4)
Rated current: 3 A **WxHxD:** 33 x 28 x mm
Diode Type: Switch Diode

Plug Type	Conductor Number	Rated Voltage V	Connector type	Length mm	DU	Article no.
Blade Terminal	4	12 24	5 x 6,3 mm	50	1	50292013

Diode



Voltage: 600 V
Rated current: 10 A
Diode Type: Switch Diode
Material: Plastic
WxHxD: 14,5 x 13 x mm

Plug Type	Conductor Number	Connector type	Length mm	DU	Article no.
Blade Terminal Blade Terminal Sleeve	1	2 x 6,3 mm	52	1	50292007

Diode



Voltage: 1000 V
Rated current: 3 A
Diode Type: Switch Diode
Material: Plastic
WxHxD: 14,5 x 13 x mm
Socket Width: 6,3 mm

Plug Type	Conductor Number	Connector type	Length mm	DU	Article no.
Blade Terminal Blade Terminal Sleeve	1	2 x 6,3 mm	52	1	50292008

Diode



Voltage: 400 V
Rated current: 1 A
Diode Type: Rectifier Diode
IP-Code: IP 54
DIN/ISO: 40050

Plug Type	Conductor Number	Rated Voltage V	Connector type	Length mm	DU	Article no.
Blade Terminal Blade Terminal Sleeve	1	12	2 x 6,3 mm	43	10	50292030

Diode



Voltage: 1300 V
Rated current: 3 A
Diode Type: Switch Diode
Version: BY255

Shape	DU	Article no.
round	1	50292100

Diode



Voltage: 1600 V
Rated current: 1 A
Diode Type: Switch Diode
Version: EM513

Shape	DU	Article no.
round	1	50292101

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Our electrical product range has even more product groups to offer! The articles in the product groups Sensor, Exhaust Pressure/ Sensor, Exhaust Temperature/ Control Unit, Glow Time/ Relay, Fuel Pumps/ Wash Water Pumps and Nozzles are all vehicle specific. You can find the right spare part for your vehicle quickly and easily via our online catalogue using the vehicle application. Simply scan the QR code and you will be forwarded directly to our online catalogue.



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Exhaust temperature sensors

Exhaust temperature sensors are used in both petrol and diesel vehicles. Their task is to protect the components around the hot exhaust gas flow from critical overheating.

Sensor, exhaust gas temperature

Article number: 7068*



Exhaust gas pressure sensor

The exhaust gas pressure sensor is responsible for measuring the pressure difference between the exhaust gas in the inlet and outlet side of the particle filter. If the difference is high, the diesel particulate filter is usually clogged and must be replaced.

Sensor, exhaust pressure

Article number: 70668*



Control unit

The control unit controls the glow plug and determines the pre-glow time. A defective glow time control unit can cause the vehicle's engine not to start.

Control unit, glow plug system

Article number: 75614*



Relays

The fuel pump relay has the task of ensuring that no fuel is delivered by the pump when the vehicle's ignition is on but the engine is not running. In return, the relay provides a power supply when the engine is running and fuel is required.

Relay, fuel pump

Article number: 75*



Washer water pump

The washer water pump is a main component of the windscreen washer. Driven by the wiper motor, the washer water pump pumps water from the reservoir into the washer nozzles, which then spray the water evenly onto the windscreen..

Washer water pump and -nozzle

Article number: 6545*



Control units

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Relay, main current



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» CONTROL UNITS

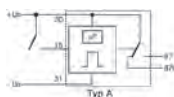
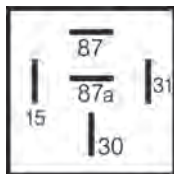


The control unit is an electronic module, which is used where it is to be controlled or regulated in the vehicle. We offer control units for a wide range of functions, with technical features which are described in an easy to understand way. Impulse relays, toggle relays and voltage monitors,

control units for the lighting and voltage peak killers, the all-round carefree packages for monitoring consumers. Suppressing, compensating, switching on and switching off: our control units are your reliable aids in passenger vehicles.



Relay, main current



Adjustable impulse relays are used when loads are to be installed or removed for a range of time. There are five time ranges to choose from as standard (upon request). The impulse time can be altered within the selected time range using a potentiometer. Circuit diagram: operating voltage is applied to terminal 15. If voltage is applied to terminal 15

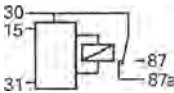
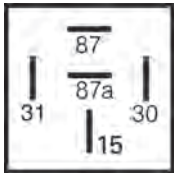
briefly or permanently, the relay is energised immediately for the set time and then drops away. The duration of the control signal has no influence on the duration of the output signal (cannot be re-triggered). The precise length of the impulse can be adjusted within the given time interval using the potentiometer.

Rated current: 10 A
Connector: Supply terminal 30

IP-Code: IP 54
WxHxD: 30 x 40 x 30 mm

Connector type	Rated Voltage V	adjustment range s	DU	Article no.	
5 x 6,3 mm	12	1 to 30	1	75614211	
		60 to 900	1	75614006	
	24	1 to 30	1	75614212	
		60 to 900	1	75614007	
Accessories			see	DU	
Relay Socket			Katalog04	5	50290266

Relay, main current



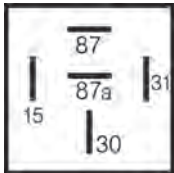
The toggle relay is used for switching loads on or off at the push of a button. Using the toggle relay, a load can be switched via button. If a positive impulse is applied to terminal 15, the relays switches and holds. A

further impulse switches the relay again. Terminal 15 is debounced.
■ Impulse switch
■ Toggle flip-flop

Rated current: 10 A
20 A **IP-Code:** IP 53
WxHxD: 30 x 40 x 30 mm

Connector type	Rated Voltage V	DU	Article no.
5 x 6,3 mm	12	1	75614197
	24	1	75614217
Accessories		see	DU
Relay Socket		Katalog04	5 50290266

Control Unit, battery voltage



The voltage monitor switches loads off if certain threshold voltages at terminal 15 are exceeded or not met. The standard values are:
■ 12V – 11.5/12.5V

■ 24V – 23.5/24.5V Application example: battery monitoring in hydraulic platforms and coaches.

Rated current: 15 A
IP-Code: IP 53 **WxHxD:** 30 x 40 x 30 mm

Connector type	Temperature range °C	Rated Voltage V	DU	Article no.
5 x 6,3 mm	-40 to +85	12	1	75614214
		24	1	75614215
Accessories			see	DU
Relay Socket			Katalog04	5
				50290266





Control Unit, lights



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LED-Adapt

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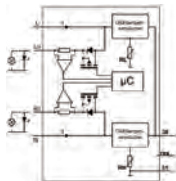
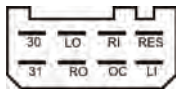
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LCG2

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Control Unit, lights



Lighting module for indicator branch for the simulation of bulbs when using LED bulbs. The corresponding current, e.g. for the flashing lights, is used, a portion of this is passed to the LED lamp and the superfluous portion is fed back into the vehicle electrical system. In the case of LED failure the simulation is stopped.

Rated current: 0,6 to 2 A
IP-Code: IP 52

Function: The load of a bulb is electronically simulated. The failure of the LED is signalled to the chassis using the output monitoring. The unit is characterised by a very low level of heat development. Connection of terminal 30 (+battery) and terminal 31 (ground) is mandatory! (Energy feedback)

Light Function: for indicator (LED)

Temperature range °C	Rated Voltage V	DU	Article no.
-40 to +85	12	1	75614280
	24	1	75614281

LED-Adapt

Control Unit, lights



Resistance load for adjusting light diode trailer lights on vehicles with bulb monitoring. The failure of an LED unit is detected and the load is switched off.

- Simple connection thanks to pre-assembled line with plug and socket
- LED failure is detected
- Short circuit is detected
- Provides equivalent resistances for all

- branches
- LED-Adapt must be mounted on a metal surface
- Connection of bulbs at the outlet is not permissible
- Under certain circumstances, it may take several minutes for the short circuit protection to shut off

IP-Code: IP 68
Information Transfer: CAN-bus
Registration Type: CE approved
Light Function: for taillight (LED)
for brake light (LED)
for rear fog light (LED)
for reverse light (LED)
for indicator (LED)

WxHxD: 280 x 25 x 70 mm

Temperature range °C	Cable Length m	Rated Voltage V	Connector	DU	Article no.
-40 to +75	1,20 3,50	12		1	76121252
		24		1	76121253

Control Unit, lights



Resistance load for adjusting light diode trailer lights on vehicles with bulb monitoring. The failure of an LED unit is detected and the load is switched off.

- Simple connection thanks to pre-assembled line with plug and socket
- LED failure is detected
- Short circuit is detected
- Provides equivalent resistances for all

Number of Poles: 7
IP-Code: IP 68
Information Transfer: Suitable for CAN bus systems
Light Function: for taillight (LED)
for brake light (LED)
for rear fog light (LED)
for reverse light (LED)
for indicator (LED)

- branches
- LED-Adapt must be mounted on a metal surface
- Connection of bulbs at the outlet is not permissible
- Under certain circumstances, it may take several minutes for the short circuit protection to shut off

DIN/ISO: 1724 N-Type
Housing material: Aluminium
WxHxD: 232 x 49,5 x 102 mm

Rated Voltage V	Temperature range °C	Cable Length m	Connector	DU	Article no.
12	-40 to +55	0,5 2,5		1	76121254

Control Unit, lights



Resistance load for adjusting light diode trailer lights on vehicles with bulb monitoring. The failure of an LED unit is detected and the load is switched off.

- Simple connection thanks to pre-assembled line with plug and socket
- LED failure is detected
- Short circuit is detected
- Provides equivalent resistances for all

Number of Poles: 13
IP-Code: IP 68
Information Transfer: Suitable for CAN bus systems
Light Function: for taillight (LED)
for brake light (LED)
for rear fog light (LED)
for reverse light (LED)
for indicator (LED)

- branches
- LED-Adapt must be mounted on a metal surface
- Connection of bulbs at the outlet is not permissible
- Under certain circumstances, it may take several minutes for the short circuit protection to shut off

DIN/ISO: 11446
Housing material: Aluminium
WxHxD: 232 x 49,5 x 102 mm

Rated Voltage V	Temperature range °C	Cable Length m	Connector	DU	Article no.
12	-40 to +55	0,5 2,5		1	76121255

Control Unit, lights



Number of Poles: 3 **Info:** with LED control unit for indicator

Rated Voltage V	Connector	DU	Article no.
12		1	75614192
24		1	75614193



LCG2
Control Unit, lights



Light Function: for indicator
for stoplight
for taillight

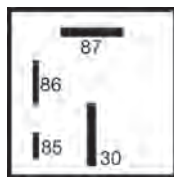
Restriction: Aspöck
Info: with connector parts

Rated Voltage V	Connector	DU	Article no.
24		1	75614253



Control Unit, glow plug system

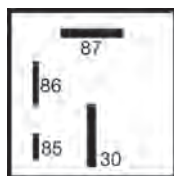
Control Unit, glow plug system



Rated current: 40 A
WxHxD: 30 x 30 x 30 mm
Number of Poles: 4
Info: with resistor

Rated Voltage V	DU	Article no.
12	1	75614017
Accessories	see	DU
Relay Socket	Katalog04	5 50390220

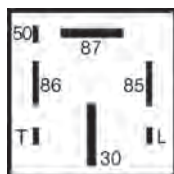
Control Unit, glow plug system



Rated current: 70 A
WxHxD: 30 x 30 x 30 mm
Number of Poles: 4
for OE number: 357 911 253 VAG

Rated Voltage V	DU	Article no.
12	1	75614048
Accessories	see	DU
Relay Socket	Katalog04	5 50390220

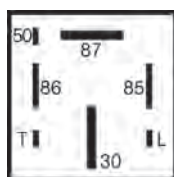
Control Unit, glow plug system



Rated current: 70 A
WxHxD: 30 x 50 x 30 mm
Number of Poles: 7
for OE number: 6 188 591 Ford

Rated Voltage V	DU	Article no.
12	1	75614059
Accessories	see	DU
Relay Socket	Katalog04	5 50390220

Control Unit, glow plug system



Rated current: 70 A
WxHxD: 30 x 70 x 30 mm
Number of Poles: 7

Rated Voltage V	DU	Article no.
12	1	75614036
Accessories	see	DU
Relay Socket	Katalog04	5 50390220



Voltage Limiter, electrical system

Voltage Limiter, electrical system



Permanently suppresses all dangerous voltage peaks in the vehicle electrical system, therefore protecting the entire on-board electronics

- prevents premature bulb failure

- no reverse polarity possible
- protection during assisted start-up process and when charging the battery

Mounting Type: Glue on

Plug Type	Cable Length mm	Rated Voltage V	DU	Article no.
Ring Connector	270	12	1	95980306
		24	1	95980308

Voltage Limiter, electrical system



The ceramic bulb connector for H7 bulbs features a diode in the positive line. This diode reduces the applied voltage by 0.8 V to an optimum bulb voltage. This protects the H7 bulb from increased voltage peaks, lengthening the

service life. The light power remains unaffected. Limitation: Can only be used in vehicles with removable bulb connections. Please use in pairs.

Bulb Type: H7
Material: Ceramic
Socket Width: 6,3 mm

Plug Type	Rated Voltage V	Cable Length mm	QU	Quantity	DU	Article no.
Blade Terminal Sleeve	12	250	Kit	2	1	95980312



Control Unit, battery management

Control Unit, battery management



The control unit battery management has been developed for vehicles with a second battery to prevent them from discharging and guarantee the power supply. The electronic unit continuously monitors the voltage values. This

control unit consists of two items - a high power relay and the electronic unit, which are connected to one another by cables. The control unit is safeguarded against short circuits and reverse polarity voltage.

Rated Current: 120 A
for cable Ø: 1,5 mm
16 mm
Info: without cable set
with squeeze connector
with socket housing
with studs

Temperature range °C	Connecting thread	Rated Voltage V	DU	Article no.
-30 to +70	6 mm	12	1	95980310
		24	1	95980311
Content			QU	
Plug Housing Fastin-Faston (TE Connectivity)			10	50290252
Plug Housing				50290826
Crimp Connector			100	50251214



4



Switches

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Control Stalk, indicators

» SWITCHES



Everyone is familiar with switches. Whether toggle switches, rocker switches, pressure switches, rotary switches, slide switches, stepping switches or latching switches - there are no limits to the variety. Added to this are the switches as-

signed to the various functions, such as the engine brake, the fog light, the reverse light, the brake hydraulics, the main switch for the battery or the ignition/start switch. We have the product solution to suit every requirement.



Control Stalk, indicators

This indicator control stalk is not self-resetting.

Combi Switch Function: with indicator function **for OE number:** 003 545 8724
 with horn
 with headlight flasher
 with light dimmer function

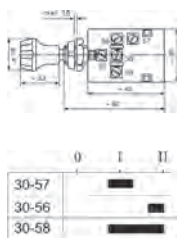


Connector type	Fitted Diameter mm	Cable Length mm	Connector	DU	Article no.
2 x 6,3 mm 8 x 6,3 mm	45	460		1	70481175

Switch, headlight



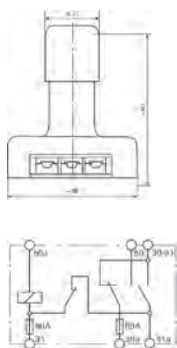
Switch, headlight



Capacity at 12V: 10 A
Capacity at 24V: 5 A
Combi Switch Function: with light dimmer function
Mounting Type: mounting
Control Type: Pull switch control

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Screw Contact	12 24	5 x M3	10,5	0-1-2	1	70526012

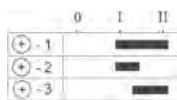
Switch, headlight



Capacity at 12V: 8 A
Capacity at 24V: 4 A
Combi Switch Function: On/Off Switch
Mounting Type: Bolted
Control Type: Push control
Hole Spacing: 38 mm
DIN/ISO: 72758

Plug Type	Rated Voltage V	Connector type	Rest Position	DU	Article no.
Blade Terminal	12 24	3 x 6,3 mm	0-1	1	70460022

Switch, headlight



Capacity at 12V: 29 A
Capacity at 24V: 14,5 A
Combi Switch Function: with light dimmer function
Mounting Type: mounting
IP-Code: IP 53
Control Type: Turn knob control

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	12,5	0-1-2	1	70525152



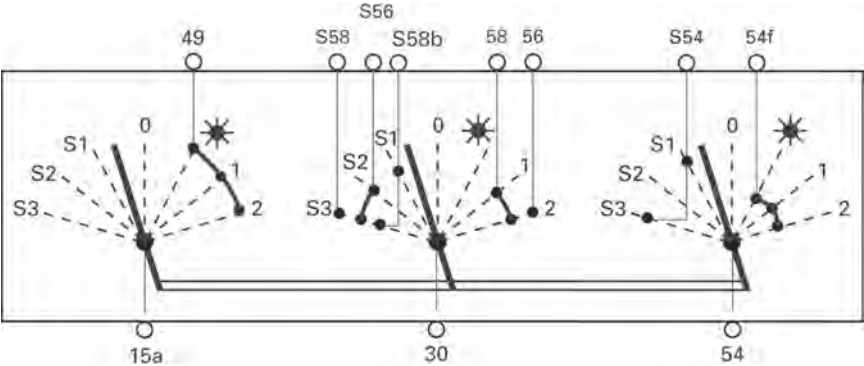
Switch, headlight



- painted in line with RAL 6031
- Circuit 1: road circuit in line with the German Road Traffic Act (StVZO)
- Circuit 2: battlefield circuit

Capacity at 24V:	20 A	Control Type:	Turn knob control
Combi Switch Function:	with daylight function	Info:	with silver contacts
Mounting Type:	mounting	Special Purpose:	for military vehicles
IP-Code:	IP 54		

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Screw Contact	24	11 x M4	1	70525032
Accessories		see	DU	
Button		Katalog13		70525032011



Switch, horn

Switch, horn



Mounting Type:
Control Type:

mounting
Push control

Material:

Elastomer

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Screw Contact	1 x M3	50	1	70575020





Switch



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Turn knob control

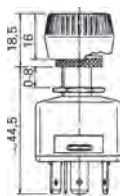
Switch



Capacity at 12V: 15 A Mounting Type: mounting
Capacity at 24V: 7,5 A IP-Code: IP 53
Combi Switch Function: On/Off Switch Control Type: Turn knob control

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	2 x 6,3 mm	12	0-1	1	70525151

Switch



Capacity at 12V: 15 A Mounting Type: mounting
Capacity at 24V: 7,5 A IP-Code: IP 53
Combi Switch Function: On/Off Switch Control Type: Turn knob control

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	4 x 6,3 mm	12	0-1	1	70525201

Switch



Capacity at 12V: 15 A IP-Code: IP 53
Capacity at 24V: 7,5 A Control Type: Turn knob control
Combi Switch Function: On/Off Switch Info: with LED
Mounting Type: mounting

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	4 x 6,3 mm	12	0-1	1	70525159

Switch



Capacity at 12V: 15 A Mounting Type: mounting
Capacity at 24V: 7,5 A IP-Code: IP 53
Combi Switch Function: On/Off Switch Control Type: Turn knob control

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	4 x 6,3 mm	12	0-1	1	70525160



5



Switch



Capacity at 12V: 23 A IP-Code: IP 53
Capacity at 24V: 11,5 A Control Type: Turn knob control
Mounting Type: mounting

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	5 x 6,3 mm	12,5	0-1-2-3	1	70505097

Switch
Switch, headlight



Capacity at 12V: 29 A IP-Code: IP 53
Capacity at 24V: 14,5 A Control Type: Turn knob control
Mounting Type: mounting Info: with LED

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	5 x 6,3 mm	12,5	0-1-2-3	1	70525150



Flip Switch Control

Switch



Capacity at 12V: 20 A Mounting Type: mounting
Capacity at 24V: 5 A Control Type: Flip Switch Control
Combi Switch Function: On/Off Switch

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	3 x 6,3 mm	11,7	0-1	1	70509155
				1	70509156
				1	70509157
				1	70509158

Switch



Capacity at 12V: 20 A Mounting Type: mounting
Capacity at 24V: 5 A Control Type: Flip Switch Control
Combi Switch Function: On/Off Switch

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	2 x 6,3 mm	11,6	0-1	1	70509100



5

Switch



Capacity at 12V: 20 A Mounting Type: mounting
Capacity at 24V: 5 A Control Type: Flip Switch Control
Combi Switch Function: Changeover Switch

Plug Type	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	3 x 6,3 mm	11,7	1-1	1	70581080



Flip Switch Control

Switch



Capacity at 12V: 20 A
Combi Switch Function: Locking
Mounting Type: Clipped
Control Type: Flip Switch Control
Shape: round

Connector type	Diameter mm	Rest Position	Colour		DU	Article no.
3 x 2,8mm	20	0-1			1	70468074

Switch



Capacity at 12V: 20 A
Combi Switch Function: Locking
Mounting Type: Clipped
Control Type: Flip Switch Control
Shape: round

Connector type	Diameter mm	Rest Position	Info	Colour		DU	Article no.
3 x 2,8mm	20	0-1	Lighted			1	70468070
						1	70468071
						1	70468072
						1	70468073

Pull switch control

Switch



Capacity at 12V: 10 A
Capacity at 24V: 5 A
Combi Switch Function: On/Off Switch
Mounting Type: mounting

Control Type: Pull switch control
Socket Type: Ba7s
Info: with bulb

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	3 x 6,3 mm	12,5	1	70511157
			1	70511158
			1	70591082

Switch



Capacity at 12V: 10 A
Capacity at 24V: 2,5 A
Combi Switch Function: On/Off Switch

Mounting Type: mounting
Control Type: Pull switch control
Version: Button small

Plug Type	Fitted Diameter mm	Info	DU	Article no.
Screw Contact	8,5	short version	1	70590110



5

Switch



Capacity at 12V: 10 A
Capacity at 24V: 2,5 A
Combi Switch Function: On/Off Switch

Mounting Type: mounting
Control Type: Pull switch control
Version: Button small

Plug Type	Connector type	Fitted Diameter mm	Info	DU	Article no.
Blade Terminal	2 x 6,3 mm	8,5	short version	1	70590210



Switch



Capacity at 12V: 10 A
Capacity at 24V: 2,5 A
Combi Switch Function: On/Off Switch
Mounting Type: Bolted
Control Type: Pull switch control
Version: Button small

Connector type	Fitted Diameter mm	Info	DU	Article no.
2 x 6,3 mm	8,5	long version	1	70590330

Switch



Capacity at 12V: 10 A
Capacity at 24V: 2,5 A
Combi Switch Function: On/Off Switch
Mounting Type: mounting
Control Type: Pull switch control
Version: Button small

Plug Type	Fitted Diameter mm	Info	DU	Article no.
Screw Contact	8,5	long version	1	70590320



Push control

Switch



Capacity at 12V: 16 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Control Type: Push control
 Info: with silver contacts
 Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Screw Contact	2 x M5	22,5	1	70468022

Switch



Capacity at 12V: 15 A
 Capacity at 24V: 10 A
 Combi Switch Function: Start
 On/Off Switch
 Normally Open
 Contact
 mounting
 Mounting Type:
 IP-Code: IP 54
 Control Type: Push control
 Material: Brass
 Info: with splash protection cover
 with silver contacts
 Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22	1	70468081

Switch



Capacity at 12V: 15 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Normally Open Contact
 Start
 mounting
 Mounting Type:
 IP-Code: IP 54
 Control Type: Push control
 Material: Brass
 Info: with splash protection cover
 with silver contacts
 Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Screw Contact	2 x M3	22	1	70468080
	22	12 24	2 x M3 100	70468080099

Switch



Capacity at 12V: 25 A
 Capacity at 24V: 12,5 A
 Combi Switch Function: On/Off Switch
 Mounting Type: mounting
 Control Type: Push control
 Material: Plastic
 Info: with splash protection cover
 with silver contacts
 Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22	1	70468083



5



Switch



Capacity at 12V: 8 A **Mounting Type:** mounting
Capacity at 24V: 4 A **Control Type:** Push control
Capacity at 48V: 2 A **Material:** Plastic
Combi Switch Function: Normally Open **Info:** Recoil
Contact

Plug Type	Connector type	Fitted Diameter mm	Colour	DU	Article no.
Screw Contact	2 x M3	16,2		1	70468096

Switch



Capacity at 12V: 8 A **Mounting Type:** mounting
Capacity at 24V: 4 A **Control Type:** Push control
Capacity at 48V: 2 A **Material:** Plastic
Combi Switch Function: Normally Closed **Info:** Recoil
Contact

Plug Type	Connector type	Fitted Diameter mm	Colour	DU	Article no.
Screw Contact	2 x M3	16,2		1	70468097



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Switch



Capacity at 12V: 1,4 A **IP-Code:** IP 40
Capacity at 24V: 0,7 A **Control Type:** Push control
Combi Switch Function: Normally Open **Material:** Plastic
Contact **Info:** Recoil
Mounting Type: mounting

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Screw Contact	2 x M5	15	1	70468098

Switch



Capacity at 12V: 16 A **Material:** Plastic
Capacity at 24V: 10 A **Info:** with silver contacts
Combi Switch Function: On/Off Switch
Mounting Type: mounting
Control Type: Push control

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22,5	1	70468106

Switch



Capacity at 12V:	16 A	Control Type:	Push control
Capacity at 24V:	10 A	Material:	Plastic
Combi Switch Function:	On/Off Switch Start mounting	Info:	with silver contacts Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22,5	1	70468107

Switch



Capacity at 12V:	20 A	Control Type:	Push control
Capacity at 24V:	10 A	Material:	Plastic
Combi Switch Function:	On/Off Switch Start mounting	Info:	with silver contacts Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22,5	1	70468115

Switch



Capacity at 12V:	20 A	Material:	Plastic
Capacity at 24V:	10 A	Info:	with splash protection cover with silver contacts Recoil
Combi Switch Function:	On/Off Switch mounting		
IP-Code:	IP 67		
Control Type:	Push control		

Plug Type	Connector type	Fitted Diameter mm	Connecting thread	DU	Article no.
Round Plug	2 x 4 mm	24,5	M24 x 1	1	70468123



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Switch



Capacity at 12V:	10 A	Control Type:	Push control
Capacity at 24V:	5 A	Material:	Metal
Combi Switch Function:	On/Off Switch mounting	Info:	Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Screw Contact	2 x M3	16,5	1	70468125

Switch



Capacity at 12V:	20 A	Material:	Plastic
Capacity at 24V:	10 A	Info:	with silver contacts Recoil
Combi Switch Function:	On/Off Switch mounting		
Control Type:	Push control		

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22,5	1	70468222



Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: mounting
Control Type: Push control

Material: Plastic
Info: with silver contacts
Recoil

Plug Type	Connector type	Fitted Diameter mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	22,5	1	70468260

Switch



Capacity at 24V: 5 A
Combi Switch Function: Normally Open
Mounting Type: Contact mounting
IP-Code: IP 54

Control Type: Push control
Info: with splash protection cover
with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	Rest Position	DU	Article no.
Screw Contact	24	3 x M4	30,2	34	0-1-2	1	70490105



Switch



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Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: Ring Nut
Bulb Type: W2W
IP-Code: IP 67

Control Type: Push control with bulb with retaining with silver contacts
Info:

Plug Type	Rated Voltage V	Fitted Dia- meter mm	Fitting Depth mm	Connector type	DU	Article no.
Blade Terminal	12 24	30	34	3 x 6,3 mm	1	70490608
				4 x 6,3 mm	1	70490170
					1	70490610
					5 x 6,3 mm	1
				7 x 6,3 mm	1	70490644
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: Ring Nut
Bulb Type: W2W
IP-Code: IP 67

Control Type: Push control without bulb without retaining with silver contacts
Info:

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490640
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: Ring Nut
Bulb Type: W2W
IP-Code: IP 67

Control Type: Push control with bulb without retaining with silver contacts
Info:

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490618
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch On/Off Switch
 Function: with high beam function
 Mounting Type: Ring Nut
 Bulb Type: W2W

IP-Code: IP 67
 Control Type: Push control
 Info: with bulb with retaining with silver contacts

Plug Type	Rated Voltage V	Fitted Dia- meter mm	Fitting Depth mm	Connector type	DU	Article no.
Blade Termi- nal	12 24	30	34	4 x 6,3 mm	1	70490633
				5 x 6,3 mm	1	70490174
					1	70490641
					1	70490643
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch
Switch, low beam

Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 with light dimmer function
 Mounting Type: Ring Nut

Bulb Type: W2W
 IP-Code: IP 67
 Control Type: Push control
 Info: without bulb with retaining with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	7 x 6,3 mm	30	34	1	70490064
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 with light dimmer function
 Mounting Type: Ring Nut

Bulb Type: W2W
 IP-Code: IP 67
 Control Type: Push control
 Info: with bulb with retaining with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	30	34	1	70490837
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169





Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch with light dimmer function
Bulb Type: W2W

IP-Code: IP 67
Control Type: Push control with bulb with retaining with silver contacts
Info:

Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
6 x 6,3 mm	30	34	1	70490624
Accessories		see	DU	
Plug Housing Plug housing, switch		Katalog04	10	50290297
Bulb		Katalog06	10	89901172
Bulb W2W		Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch with light dimmer function
Mounting Type: Ring Nut
Bulb Type: W2W

IP-Code: IP 67
Control Type: Push control with bulb with retaining with silver contacts
Info:

Plug Type	Rated Voltage V	Fitted Diameter mm	Fitting Depth mm	Connector type	DU	Article no.
Blade Terminal	12 24	30	34	4 x 6,3 mm	1	70490635
				5 x 6,3 mm	1	70490601
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

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Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: Ring Nut
Bulb Type: W2W
IP-Code: IP 67

Control Type: Push control with bulb with retaining with silver contacts
Info:

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490175
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169
Bulb T5				Katalog06	10	89901171
				Katalog06	10	89901170

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Specification: Scheinwerfer TOP
 Mounting Type: Ring Nut
 Bulb Type: W2W

IP-Code: IP 67
 Control Type: Push control
 Info: with bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	6 x 6,3 mm	30	34	1	70490620
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch, interior blower



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Mounting Type: Ring Nut
 Bulb Type: W2W
 IP-Code: IP 67

Control Type: Push control
 Info: with bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	WxHx D mm	Fitted Diameter mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	34	30	1	70490172
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb W2W				Katalog06	10	89901169
Bulb				Katalog06	10	89901172

Switch, interior blower



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Mounting Type: Ring Nut
 Bulb Type: W2W
 IP-Code: IP 67

Control Type: Push control
 Info: without bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	WxHx D mm	Fitted Diameter mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	34	30	1	70490625
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch, interior blower



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Mounting Type: Ring Nut
 Bulb Type: W2W
 IP-Code: IP 67

Control Type: Push control
 Info: without bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	WxHx D mm	Fitted Diameter mm	Colour	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	34	30	Yellow	1	70490626
Accessories				see	DU		
Bulb				Katalog06	10		89901172
Bulb W2W				Katalog06	10		89901169
Plug Housing Plug housing, switch				Katalog04	10		50290297





Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Specification: Vibration
Mounting Type: Ring Nut

IP-Code: IP 67
Control Type: Push control
Info: without bulb
with retaining

Plug Type	Rated Voltage V	Fitted Dia-meter mm	Fitting Depth mm	Connector type	DU	Article no.
Blade Terminal	12 24	30	34	4 x 6,3 mm	1	70490616
				5 x 6,3 mm	5	70490638
				6 x 6,3 mm	1	70490609
				7 x 6,3 mm	1	70490840
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Specification: Vibration
Mounting Type: Ring Nut
Bulb Type: W2W

IP-Code: IP 67
Control Type: Push control
Info: without bulb
without retaining
with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Dia-meter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490604
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Specification: automat. Vibration
Mounting Type: Ring Nut
Bulb Type: W2W

IP-Code: IP 67
Control Type: Push control
Info: with bulb
with retaining
with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Dia-meter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	30	34	1	70490615
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: Lift / Lower
Bulb Type: Ring Nut
W2W

IP-Code: IP 67
Control Type: Push control
Info: without bulb
without retaining
with silver contacts

Plug Type	Rated Voltage V	Fitted Diameter mm	Fitting Depth mm	Connector type	DU	Article no.
Blade Terminal	12 24	30	34	4 x 6,3 mm	1	70490180
					1	70490645
				5 x 6,3 mm	1	70490605
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Mounting Type: Lift / Lower
Bulb Type: Ring Nut
W2W

IP-Code: IP 67
Control Type: Push control
Info: with bulb
without retaining
with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490834
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Specification: Wasserberieselung
Mounting Type: Ring Nut
Bulb Type: W2W

IP-Code: IP 67
Control Type: Push control
Info: with bulb
with retaining
with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490600
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169





Switch



Capacity at 12V:	20 A	IP-Code:	IP 67
Capacity at 24V:	10 A	Control Type:	Push control
Combi Switch Function:	On/Off Switch	Info:	with bulb
Specification:	Defroster		with retaining
Mounting Type:	Ring Nut		with silver contacts
Bulb Type:	W2W		

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490646
					1	70490627
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V:	20 A	IP-Code:	IP 67
Capacity at 24V:	10 A	Control Type:	Push control
Combi Switch Function:	On/Off Switch	Info:	without bulb
Specification:	Start		without retaining
Mounting Type:	Ring Nut		with silver contacts
Bulb Type:	W2W		

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	2 x 6,3 mm	30	34	1	70490177
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V:	20 A	IP-Code:	IP 67
Capacity at 24V:	10 A	Control Type:	Push control
Combi Switch Function:	On/Off Switch	Info:	with bulb
Specification:	Stop		with retaining
Mounting Type:	Ring Nut		with silver contacts
Bulb Type:	W2W		

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	7 x 6,3 mm	30	34	1	70490841
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V:	20 A	IP-Code:	IP 67
Capacity at 24V:	10 A	Control Type:	Push control
Combi Switch Function:	On/Off Switch	Info:	without bulb
Specification:	Stop		with retaining
Mounting Type:	Ring Nut		with silver contacts
Bulb Type:	W2W		

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	7 x 6,3 mm	30	34	1	70490182
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Specification: Rundumkennleuchte
 Mounting Type: Ring Nut
 Bulb Type: W2W

IP-Code: IP 67
 Control Type: Push control
 Info: with bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490183
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 Specification: Allrad
 Mounting Type: Ring Nut
 Bulb Type: W2W

IP-Code: IP 67
 Control Type: Push control
 Info: with bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	6 x 6,3 mm	30	34	1	70490617
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 with wipe interval
 function
 Mounting Type: Ring Nut

Bulb Type: W2W
 IP-Code: IP 67
 Control Type: Push control
 Info: with bulb
 with retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	7 x 6,3 mm	30	34	1	70490621
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A
 Capacity at 24V: 10 A
 Combi Switch Function: On/Off Switch
 with wash function
 Mounting Type: Ring Nut
 Bulb Type: W2W

IP-Code: IP 67
 Control Type: Push control
 Info: without bulb
 without retaining
 with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	30	34	1	70490623
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169



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Switch



Capacity at 12V: 20 A IP-Code: IP 67
 Capacity at 24V: 10 A Control Type: Push control
 Combi Switch Function: On/Off Switch without bulb
 with wiper function with retaining
 Ring Nut with silver contacts
 Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	30	34	1	70490176
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A IP-Code: IP 67
 Capacity at 24V: 10 A Control Type: Push control
 Combi Switch Function: On/Off Switch without bulb
 Gangschaltung with retaining
 Ring Nut with silver contacts
 Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	30	34	1	70490628
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A Bulb Type: W2W
 Capacity at 24V: 10 A IP-Code: IP 67
 Combi Switch Function: On/Off Switch with rear fog light
 function with retaining
 Ring Nut with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490648
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A IP-Code: IP 67
 Capacity at 24V: 10 A Control Type: Push control
 Combi Switch Function: On/Off Switch with bulb
 Starthilfe without retaining
 Ring Nut with silver contacts
 Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	10	70490844
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A IP-Code: IP 67
 Capacity at 24V: 10 A Control Type: Push control
 Combi Switch Function: On/Off Switch without bulb
 Specification: Starthilfe without retaining
 Mounting Type: Ring Nut with silver contacts
 Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490836
Accessories				see	DU	
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169
Plug Housing Plug housing, switch				Katalog04	10	50290297

Switch
Switch, outline lamp

Capacity at 12V: 20 A Bulb Type: W2W
 Capacity at 24V: 10 A IP-Code: IP 67
 Combi Switch Function: On/Off Switch with park light function Push control with retaining with bulb with silver contacts
 Mounting Type: Ring Nut

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490173
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb T5				Katalog06	10	89901171

Switch



Capacity at 12V: 20 A IP-Code: IP 67
 Capacity at 24V: 10 A Control Type: Push control
 Combi Switch Function: On/Off Switch without bulb
 Mounting Type: Ring Nut without retaining with silver contacts
 Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	2 x 6,3 mm	30	34	1	70490178
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A Bulb Type: W2W
 Capacity at 24V: 10 A IP-Code: IP 67
 Combi Switch Function: On/Off Switch with park light function Push control with bulb with retaining with silver contacts
 Mounting Type: Ring Nut

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	6 x 6,3 mm	30	34	1	70490622
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169



5



Switch



Capacity at 12V: 20 A **Bulb Type:** W2W
 Capacity at 24V: 10 A **IP-Code:** IP 67
Combi Switch Function: On/Off Switch with park light function **Control Type:** Push control without bulb with retaining with silver contacts
Info:

Mounting Type: Ring Nut

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	4 x 6,3 mm	30	34	1	70490181
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A **IP-Code:** IP 67
 Capacity at 24V: 10 A **Control Type:** Push control with bulb with retaining with silver contacts
Combi Switch Function: On/Off Switch **Info:**
Specification: Federung
Mounting Type: Ring Nut
Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	6 x 6,3 mm	30	34	1	70490629
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Capacity at 12V: 20 A **IP-Code:** IP 67
 Capacity at 24V: 10 A **Control Type:** Push control with bulb with retaining with silver contacts
Combi Switch Function: On/Off Switch **Info:**
Specification: Schnell
Mounting Type: Ring Nut
Bulb Type: W2W

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	5 x 6,3 mm	30	34	1	70490842
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch
Hazard Light Switch

Capacity at 12V: 20 A **Bulb Type:** W2W
 Capacity at 24V: 10 A **IP-Code:** IP 67
Combi Switch Function: On/Off Switch with hazard light system function **Control Type:** Push control with bulb with retaining with silver contacts
Info:

Mounting Type: Ring Nut

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	7 x 6,3 mm	30	34	1	70490171
Accessories				see	DU	
Bulb W2W				Katalog06	10	89901169
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172

Switch



Capacity at 12V: 20 A
Capacity at 24V: 10 A
Combi Switch Function: On/Off Switch
Specification: Handbremse
Mounting Type: Ring Nut
Bulb Type: W2W

IP-Code: IP 67
Control Type: Push control
Info: without bulb with retaining with silver contacts

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Fitting Depth mm	DU	Article no.
Blade Terminal	12 24	7 x 6,3 mm	30	34	1	70490606
Accessories				see	DU	
Plug Housing Plug housing, switch				Katalog04	10	50290297
Bulb				Katalog06	10	89901172
Bulb W2W				Katalog06	10	89901169

Switch



Mounting Type: Ring Nut IP-Code: IP 67

Fitting Depth mm	Colour	DU	Article no.
34		1	70490835
Accessories		see	DU
Plug Housing Plug housing, switch		Katalog04	10 50290297





Switch, engine brake

Switch, engine brake



Combi Switch Function: Normally Open Contact
Mounting Type: Flange mounting
IP-Code: IP 44
Operating Mode: Manual (foot operated)
Control Type: Push control with silver contacts
Info: Recoil

Plug Type	Rated Voltage V	Connector type	DU	Article no.
AMP	12 24	3 x AMP Tyco RK 2,5	1	70485129
Accessories			see	DU
Plug Housing RK 2,5 (TE Connectivity)			Katalog04	5 50290952

Switch, engine brake



Combi Switch Function: Normally Open Contact
Mounting Type: Flange mounting
IP-Code: IP 44
Operating Mode: Manual (foot operated)
Control Type: Push control with silver contacts
Info: Recoil

Plug Type	Rated Voltage V	Connector type	Connecting thread	DU	Article no.
Round Plug	12 24	2 x 4 mm	M27 x 1	1	70485130
Accessories			see	DU	
Plug Housing Connector set, switch			Katalog04	1	70511021

Switch, engine brake



Capacity at 24V: 10 A
Combi Switch Function: Normally Open Contact
IP-Code: IP 44
Operating Mode: Manual (foot operated)
Control Type: Push control
Info: Recoil
Mounting Type: Flange mounting

Plug Type	Rated Voltage V	Connector type	DU	Article no.
Screw Contact	24	2 x M3	1	70485039

Membrane Pressure Switch

Membrane Pressure Switch



These switches are suitable for oil as well as air and withstand excess pressures up to 300 bar.

Voltage: 42 V **Connector type:** 2 x 6,3 mm
Combi Switch Normally Closed Contact
Function:

Spanner Size	Surface	Temperature range °C	Thread Size	Shifting Points bar	DU	Article no.
24	Zinc-coated	-30 to +100	M10 x 1 con.	1,0	1	70495910
				0,2	1	70495898
				0,3	1	70495899
				0,5	1	70495900
				0,8	1	70495905
				1,2	1	70495915
				1,5	1	70495920
				1,8	1	70495922
				2,0	1	70495925
				2,5	1	70495930
				3,0	1	70495932
				4,5	1	70495935
				5,0	1	70495940
				6,0	1	70495945
		M12 x 1,5	0,5	1	70495955	
			1,2	1	70495958	
			2,0	1	70495960	
			3,0	1	70495965	
			4,0	1	70495970	
			5,0	1	70495980	
			5,5	1	70495975	
Accessories				see	DU	
Sealing/Protective Cap				Katalog04	10	50281039



Membrane Pressure Switch

These switches are suitable for oil as well as air and withstand excess pressures up to 300 bar.



Voltage: 42 V
Combi Switch Normally Open Contact
Function:
Thread Length: 9 mm
Connector type: 2 x 6,3 mm

Temperature range °C	Spanner Size	Surface	Thread Size	Shifting Points bar	DU	Article no.
-30 to +100	24	Zinc-coated	M10 x 1 con.	0,2	1	70540898
				0,3	1	70540900
				0,5	1	70540905
				0,8	1	70540910
				1,0	1	70540912
				1,2	1	70540915
				1,5	1	70540920
				1,8	1	70540925
				2,0	1	70540930
				2,5	1	70540935
				3,0	1	70540940
				4,5	1	70540942
				5,0	1	70540944
				6,0	1	70540945
			M12 x 1,5	0,5	1	70540960
				1,2	1	70540965
				2,0	1	70540970
				3,0	1	70540972
				4,0	1	70540975
				5,0	1	70540980
				5,5	1	70540985
Accessories				see	DU	
Sealing/Protective Cap				Katalog04	10	50281039

Brake Light Switch



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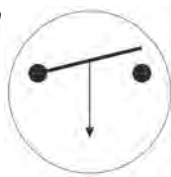


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Brake Light Switch



Capacity at 12V:

4 A

Capacity at 24V:

2 A

Combi Switch Function:

Normally Open
Contact

Mounting Type:

Bolted

Operating Mode:

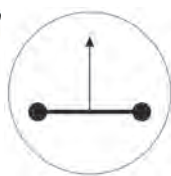
Mechanical

Control Type:

Pull switch control

Plug Type	Connector type	DU	Article no.
Screw Contact	2 x M3	1	70485010

Brake Light Switch



Capacity at 12V:

4 A

Capacity at 24V:

2 A

Combi Switch Function:

Normally Closed
Contact

Mounting Type:

Bolted

Operating Mode:

Mechanical

Control Type:

Pull switch control

Plug Type	Connector type	DU	Article no.
Screw Contact	2 x M3	1	70485011

Brake Light Switch



Combi Switch Function:

Normally Closed
Contact

Operating Mode:

Pneumatic
Hydraulic

Plug Type:

AMP

Rated Voltage:

12
24 V

Connector type	Shifting Points bar	Temperature range °C	Thread Size	Spanner Size	DU	Article no.
2 x AMP Tyco RK 2,5	2,0	-40 to +120	M16 x 1,5	27	5	70485005
Accessories				see	DU	
Plug Housing RK 2,5 (TE Connectivity)				Katalog04	5	50290950





Brake Light Switch



Capacity at 12V: 13 A
Capacity at 24V: 6,5 A
Combi Switch Function: Normally Closed Contact
Mounting Type: Flat Plug-in Connector
IP-Code: IP 66A
Operating Mode: Mechanical

Rated Voltage V	Connector type	Fitted Diameter mm	Thread Size	DU	Article no.
12 24	2 x 6,3 mm	16	M14 x 1	1	70485072

Brake Light Switch



Combi Switch Function: Normally Open Contact Bayonet
Mounting Type:
Control Range: 2 - 5 bar
Operating Mode: Hydraulic

Rated Voltage V	Connector type	Connecting thread	Thread Size	Spanner Size	DU	Article no.
12 24	2 x 4 mm	M27 x 1	M10 x 1	27	1	70487046
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511021

Brake Light Switch



Combi Switch Function: Normally Open Contact
Mounting Type: Flat Plug-in Connector
Control Range: 3 - 6 bar
Operating Mode: Hydraulic

Rated Voltage V	Connector type	Thread Size	Spanner Size	DU	Article no.
12 24	2 x 6,3 mm	M10 x 1	24	1	70487047

Brake Light Switch



Combi Switch Function: Normally Open Contact Bolted
Mounting Type:
Control Range: 0,1 - 0,5 bar
Operating Mode: Pneumatic

Plug Type	Connector type	Spanner Size	Inner thread mm	DU	Article no.
Blade Terminal	2 x 6,3 mm	24	M12 x 1,5	1	70495856

Brake Light Switch



Capacity at 12V: 8 A (ohm.)
Capacity at 24V: 4 A (ohm.)
Combi Switch Function: Normally Open Contact

IP-Code: IP 67
Operating Mode: Mechanical
Info: with silver contacts

Connector type	Thread Size	Spanner Size	DU	Article no.
2 x 6,3 mm	M12 x 1	22	1	70485086

Brake Light Switch



Combi Switch Function: Normally Open Contact
Mounting Type: Bolted

Control Range: 0,1 - 0,5 bar
Operating Mode: Pneumatic

Plug Type	Connector type	Connecting thread	Spanner Size	Inner thread mm	DU	Article no.			
Round Plug	2 x 4 mm	M27 x 1	27	M12 x 1,5	1	70495857			
					1	70495858			
Accessories				see	DU				
Plug Housing Connector set, switch				Katalog04	1	70511021			



Pressure Switch, brake hydraulics



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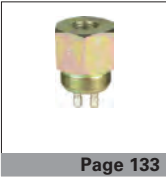
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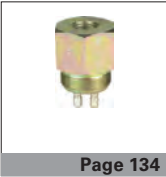
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Pressure Switch, brake hydraulics

Combi Switch Function: Changeover Switch
Normally Closed Contact
Normally Open Contact

Mounting Type: Bolted
Control Range: 0,5 - 1,5 bar
Operating Mode: 5,5 - 7,5 bar Hydraulic

Plug Type	Connector type	Thread Size	Spanner Size	DU	Article no.
Blade Terminal	3 x 6,3 mm	M10 x 1	24	1	70487037

Pressure Switch, brake hydraulics

Combi Switch Function: Normally Open Contact
Mounting Type: Bolted

Control Range: 3 - 6 bar
Operating Mode: Hydraulic

Plug Type	Connector type	Thread Size	Spanner Size	DU	Article no.
Blade Terminal	2 x 6,3 mm	M10 x 1	22	1	70487038



5



Pressure Switch, brake hydraulics



Combi Switch Function: Normally Closed Contact Mounting Type: Bolted
Operating Mode: Pneumatic

Plug Type	Connector type	Shifting Points bar	Connecting thread	Inner thread mm	DU	Article no.
Round Plug	2 x 4 mm	6,0	M24 x 1	M12 x 1,5	1	70495135
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511022

Pressure Switch, brake hydraulics



Combi Switch Function: Normally Closed Contact Mounting Type: Bolted
Operating Mode: Pneumatic

Plug Type	Connector type	Connecting thread	Inner thread mm	Shifting Points bar	DU	Article no.
Round Plug	2 x 4 mm	M24 x 1	M12 x 1,5	0,5	1	70495130
				2,7	1	70495131
				4,0	1	70495132
				5,7	1	70495134
				6,3	1	70495136
				6,9	1	70495140
				7,0	1	70495141
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511022

Pressure Switch, brake hydraulics



Combi Switch Function: Normally Open Contact Mounting Type: Bolted
Operating Mode: Pneumatic

Plug Type	Connector type	Shifting Points bar	Connecting thread	Inner thread mm	DU	Article no.
Round Plug	2 x 4 mm	1,0	M24 x 1	M12 x 1,5	1	70495142
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511022

Pressure Switch, brake hydraulics



Combi Switch Function: Normally Closed Contact Mounting Type: Bolted
Operating Mode: Pneumatic

Plug Type	Connector type	Connecting thread	Inner thread mm	Shifting Points bar	DU	Article no.
Round Plug	2 x 4 mm	M24 x 1	M12 x 1,5	5,0	1	70495150
				5,5	1	70495151
				6,7	1	70495156
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511022



Pressure Switch, brake hydraulics



Combi Switch Normally Open Contact **Mounting Type:** Bolted
Function: **Operating Mode:** Pneumatic
Switching Capacity: 30 W

Plug Type	Connector type	Shifting Points bar	Connecting thread	Inner thread mm	DU	Article no.
Round Plug	2 x 4 mm	4,0	M24 x 1	M12 x 1,5	1	70495154
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511022

Pressure Switch, brake hydraulics



Combi Switch Normally Closed Contact **Mounting Type:** Bolted
Function: **Operating Mode:** Pneumatic

Plug Type	Connector type	Shifting Points bar	Thread Size	Spanner Size	DU	Article no.
AMP	2 x AMP Tyco RK 2,5	5,4	M16 x 1,5 x 15	27	1	70495159
Accessories				see	DU	
Plug Housing RK 2,5 (TE Connectivity)				Katalog04	5	50290951

Pressure Switch, brake hydraulics



Combi Switch Normally Open Contact **Mounting Type:** Bolted
Function: **Operating Mode:** Pneumatic

Plug Type	Connector type	Shifting Points bar	Thread Size	Spanner Size	DU	Article no.
AMP	2 x AMP Tyco RK 2,5	0,3	M16 x 1,5	27	1	70495157
					1	70495161
Accessories				see	DU	
Plug Housing RK 2,5 (TE Connectivity)				Katalog04	5	50290951

Control Switch

Control Switch

Number of connectors: 2
Combi Switch Function: Normally Closed Contact
Mounting Type: Bayonet
Operating Mode: Pneumatic
Material: Cast Aluminium
IP-Code: IP 67
Switching Capacity: 50 W

Rated Voltage V	Shifting Points bar	Spanner Size	Inner thread mm	DU	Article no.
24	5,8	19	M12 x 1,5	1	70511248

Control Switch

Number of connectors: 2
Combi Switch Function: Normally Closed Contact
Mounting Type: Bayonet
Operating Mode: Mechanical
Capacity at 12V: 10 A
Capacity at 24V: 5 A

Connecting thread	Temperature range °C	Thread Size	Length mm		DU	Article no.
M27 x 1	-20 to +120	M18 x 1,5	53		1	70511032
	-30 to +140		54		1	70511180
	53	-20 to +120	ZF Transmission	M18 x 1,5	1	70511124
Accessories				see	DU	
Plug Housing Connector set, switch				Katalog04	1	70511021

Control Switch

Number of connectors: 2
Combi Switch Function: Normally Open Contact
Mounting Type: Bayonet
Operating Mode: Mechanical
Capacity at 12V: 10 A
Capacity at 24V: 5 A

Temperature range °C	Connecting thread	Thread Size	Length mm		DU	Article no.
-30 to +130	M27 x 1	M18 x 1,5	48		1	70511027
		ZF Transmission	M18 x 1,5	48	1	70511030
				53	1	70511126
Accessories				see	DU	
Plug Housing	Connector set, switch			Katalog04	1	70511021



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Main Switch, battery



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Main Switch, battery



Inrush current:
Capacity at 12V:
Capacity at 24V:
Operating Mode:

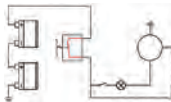
750 A
125 A
125 A
Manual

Control Type:
Combi Switch Function:
Hole Spacing:
Number of Poles:

Turn knob control
Dual Output
35 mm
4

Connector type	Fitted Diameter mm	DU	Article no.
2 x 3/8"-24 2 x 10-31	26,5	1	70465012

Main Switch, battery



Inrush current:
Capacity at 24V:
Control Type:
Hole Spacing:

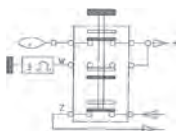
500 A
100 A
Turn knob control
38 mm

Info:

with cap
with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	22,5	-40 to +80	1	70465020
Content				QU	
Key				1	70465020012

Main Switch, battery



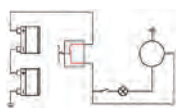
■ 3 separated circuits

Inrush current: 500 A
Capacity at 24V: 100 A
IP-Code: IP 66
Control Type: Turn knob control
Hole Spacing: 38 mm

Info: with cap
with removable handle
with load resistor

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact Blade Terminal	2 x M10 4 x 6,3 mm	22,5	-40 to +80	1	70465030
Content				QU	
Key				1	70465030012

Main Switch, battery



Capacity at 24V: 100 A
200 A
IP-Code: IP 66

Operating Mode: Manual (hand operated)
Hole Spacing: 39 mm
Info: with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	24	-40 to +85	1	70465062

Main Switch, battery

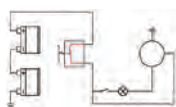


Inrush current: 500 A
Capacity at 24V: 100 A
IP-Code: IP 43

Operating Mode: Manual (hand operated)
Control Type: Turn knob control
Hole Spacing: 90 mm

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	29	-40 to +85	1	70465064

Main Switch, battery



Inrush current: 1000 A
Capacity at 24V: 150 A
IP-Code: IP 65

Operating Mode: Manual (hand operated)
Control Type: Turn knob control

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact Blade Terminal	2 x M10	28	-40 to +85	1	70465065

Main Switch, battery



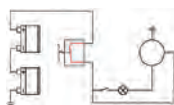
Capacity at 24V: 150 A
IP-Code: IP 42

Operating Mode: Manual (hand operated)
Control Type: Turn knob control

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact Blade Terminal	2 x M10 2 x 6,3 mm	28	-40 to +85	1	70465066



Main Switch, battery



Inrush current:
Capacity at 24V:

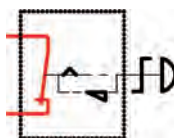
1000 A
150 A

Hole Spacing:
Info:

45 mm
with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	28	-40 to +85	1	70465082

Main Switch, battery



Inrush current:
Capacity at 24V:
IP-Code:

1000 A
150 A
IP 66

Operating Mode:
Control Type:
Hole Spacing:

Manual (foot operated)
Push control
49 mm

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M8	37	-30 to +85	1	70465089

Main Switch, battery



■ not switchable under load

Capacity at 24V:
IP-Code:
Control Type:
Hole Spacing:

250 A
IP 66
Turn knob control
100 mm

Info:

with splash protection cover
with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	23	-40 to +80	1	70465016
Content				QU	
Key				1	70465018012

Main Switch, battery



■ switchable under load

Inrush current:
Capacity at 24V:
IP-Code:
Control Type:

2500 A
250 A
IP 66
Turn knob control

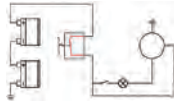
Hole Spacing:
Info:

100 mm
with splash protection cover
with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	22,5	-45 to +85	1	70465018
Content				QU	
Key				1	70465018012

Main Switch, battery

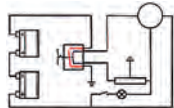
■ switchable under load



Inrush current: 2500 A
Capacity at 24V: 250 A
IP-Code: IP 66
Control Type: Turn knob control
Hole Spacing: 100 mm
Info: with splash protection cover with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	22,5	-40 to +80	1	70465019
Content				QU	
Key				1	70465019012

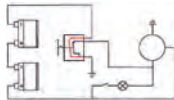
Main Switch, battery



Inrush current: 2500 A
Capacity at 24V: 250 A
IP-Code: IP 66
Control Type: Turn knob control
Hole Spacing: 65 mm

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10 2 x 6,3 mm	24	-40 to +80	1	70465048

Main Switch, battery



Inrush current: 2500 A
Capacity at 24V: 250 A
IP-Code: IP 66
Control Type: Turn knob control
Hole Spacing: 65 mm

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	1 x M6 2 x M10	24	-40 to +80	1	70465047

Main Switch, battery



Inrush current: 2500 A
Capacity at 24V: 250 A
IP-Code: IP 66
Control Type: Turn knob control
Hole Spacing: 65 mm

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	24	-40 to +85	1	70465067

Main Switch, battery



Inrush current: 2500 A
Capacity at 24V: 250 A
IP-Code: IP 65
Operating Mode: Manual (hand operated)
Control Type: Turn knob control
Hole Spacing: 110 mm
Number of Poles: 2

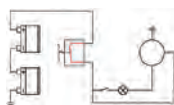
Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	4 x M10	26	-40 to +85	1	70465090



5



Main Switch, battery



Inrush current: 3000 A
Capacity at 24V: 300 A
IP-Code: IP 68
Control Type: Turn knob control
Hole Spacing: 100 mm
Info: with removable handle

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	22	-40 to +80	1	70465025
Content				QU	
Key				1	70465025012

Main Switch, battery



Inrush current: 2500 A
Capacity at 24V: 250 A
IP-Code: IP 65
Operating Mode: Manual (hand operated)
Manual (foot operated)
Control Type: Turn knob control
Hole Spacing: Push control
100 mm

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	24	-40 to +80	1	70465058

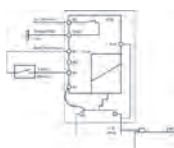
Main Switch, battery



Inrush current: 2500 A
Capacity at 24V: 300 A
IP-Code: IP 65
Control Type: Turn knob control

Plug Type	Connector type	Fitted Diameter mm	Temperature range °C	DU	Article no.
Screw Contact	2 x M10	31	-40 to +85	1	70465068

Main Switch, battery



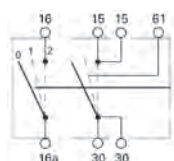
Inrush current: 1500 A
Capacity at 24V: 300 A
IP-Code: IP 65
Operating Mode: Electrically Controlled
Combi Switch Function: On/Off Switch
Hole Spacing: 40 mm
Info: with integrated relay

Temperature range °C	DU	Article no.
-40 to +85	1	70465071

Ignition-/Starter Switch

						
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Ignition-/Starter Switch



Capacity at 24V:

8 A

Special Purpose:

for military vehicles

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
24	7 x M4	26	0-1-2	1	70567051
Content				QU	
Key				1	70567051012



Ignition-/Starter Switch



Capacity at 24V: 8,3 A
Combi Switch Function: with park light function
IP-Code: IP 53

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	24	4 x 6,3 mm 2 x 9,5 mm	26	P-0-1-2-3	1	70567070
Content					QU	
Key					2	70567070052

Switch, headlight



Capacity at 24V: 8 A
Combi Switch Function: with park light function
IP-Code: IP 53
Clamp: 15
30
58
56a
56b

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Screw Contact	24	2 x M5 3 x M4	26	P-0-1-2-3-4	1	70567073
Content					QU	
Key					2	70567070052

Ignition-/Starter Switch



50-80	1	2	3	4
30-15				
30-15				
30-15				

Capacity at 12V: 2 A - 25 A
Combi Switch Function: with starter lockout mounting
Mounting Type: with silver contacts
IP-Code: IP 40

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	18,5	0-1-2	1	70595050
Content					QU	
Key					1	70598049016

Ignition-/Starter Switch



50-80	1	2	3	4
30-15				
30-15				
30-15				

Capacity at 12V: 2 A - 25 A
Combi Switch Function: with starter lockout mounting
Mounting Type: with silver contacts
IP-Code: IP 40
Removable key

Plug Type	Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	22,5	0-1-2	1	70595057
Content					QU	
Key					1	70598049016

Ignition-/Starter Switch



30-50	30-15/24	30-18	30-17	30-50a

Capacity at 12V: 8 A - 70 A
Capacity at 24V: 4 A - 35 A
Combi Switch Function: Preheating with park light function with starter lockout without immobiliser

IP-Code: IP 63

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	6 x 6,3 mm 4 x 9,5 mm	26,5	P-0-1-2-3	1	70595074
Content				QU	
Key				1	70598047016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401

Ignition-/Starter Switch



30-50	30-15/24	30-18	30-17	30-50a

Capacity at 12V: 8 A - 35 A
Capacity at 24V: 4 A - 17,5 A
Combi Switch Function: with park light function without starter lockout without immobiliser

IP-Code: IP 63

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	5 x 6,3 mm 2 x 9,5 mm	26,5	P-0-1-2	1	70595077
Content				QU	
Key				1	70598047016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401

Ignition-/Starter Switch



30-50	30-15/24	30-18	30-17	30-50a

Capacity at 12V: 8 A - 35 A
Capacity at 24V: 4 A - 17,5 A
Combi Switch Function: without immobiliser without starter lockout

IP-Code: IP 63

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	4 x 6,3 mm 2 x 9,5 mm	26,5	0-1-2	1	70595080
Content				QU	
Key				1	70598047016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401





Ignition-/Starter Switch



Capacity at 12V: 12 A - 27,5 A

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12	5 x 6,3 mm	18,5	1-0-2-3	1	70595111

Ignition-/Starter Switch



■ Switch also glows during start process

Capacity at 12V: 80 A / 5 sec.
Capacity at 24V: 40 A / 5 sec.
Combi Switch Function: Preheating

Control Type: Pull switch control
Clamp: 15-17-19-50a

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	4 x M5	10,5	0-1-2	1	70596019

Ignition-/Starter Switch



12-18	0-1-2-3
12-18	0-1-2-3
12-18	0-1-2-3
12-18	0-1-2-3
12-18	0-1-2-3

Capacity at 12V: 8 A - 35 A
Capacity at 24V: 4 A - 17,5 A
Combi Switch Function: without starter lock-out
without immobiliser
Preheating
with park light function

IP-Code: IP 63

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	6 x 6,3 mm 4 x 9,5 mm	26,5	P-0-1-2-3	1	70596029
Content				QU	
Key				1	70598047016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401

Ignition-/Starter Switch



	P	D	T	Q	U
12-19					
20-19					
20-19					
20-19					
20-19					

Capacity at 12V: 8 A - 35 A
Capacity at 24V: 4 A - 35 A
Combi Switch Function: with park light function
without starter lock-out
without immobiliser
Preheating

IP-Code: IP 64

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	6 x 6,3 mm 4 x 9,5 mm	26,5	P-0-1-2-3	1	70596034
Content				QU	
Key				1	70596034016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401

Ignition-/Starter Switch



	P	D	T	Q	U
12-19					
20-19					
20-19					
20-19					
20-19					

Capacity at 12V: 35 A
Capacity at 24V: 17,5 A
Combi Switch Function: Preheating
without starter lock-out
without immobiliser

IP-Code: IP 63

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	6 x 6,3 mm 4 x 9,5 mm	26,5	0-1-2-3	1	70596036
Content				QU	
Key				1	70598047016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401

Ignition-/Starter Switch



	P	D	T	Q	U
12-19					
20-19					
20-19					
20-19					
20-19					

Capacity at 12V: 8 A - 35 A
Capacity at 24V: 4 A - 17,5 A
Combi Switch Function: Preheating
with starter lockout
without immobiliser

IP-Code: IP 64

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	6 x 6,3 mm 4 x 9,5 mm	26,5	P-0-1-2-3	1	70596037
Content				QU	
Key				1	70596034016
Accessories				see	DU
Plug Housing Plug housing, switch				Katalog04	5 50290400
				Katalog04	10 50290401

Ignition-/Starter Switch



Capacity at 12V: 20 A
Combi Switch Function: Preheating

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12	6 x 6,3 mm 2 x 9,5 mm	22,5	0-1-P-2	1	70596076



Ignition-/Starter Switch



	0°	30°	90°	130°
30-58	■	■	■	■
30-15/54	■	■	■	■
30-50a	■	■	■	■

Capacity at 12V:	8 A - 35 A	Mounting Type:	Flat Plug-in Connector
Capacity at 24V:	4 A - 17,5 A		tor
Combi Switch Function:	without starter lock-out without immobiliser	IP-Code:	IP 66

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12 24	5 x 6,3 mm 2 x 9,5 mm	55,3	P-0-1-2	1	70596077
Content				QU	
Key				1	70596034016
Accessories			see	DU	
Plug Housing Plug housing, switch			Katalog04	5	50290400
			Katalog04	10	50290401

Ignition-/Starter Switch
Contact Switch, alarm system



	T	0	II
30-54	■	■	■
30-15	■	■	■

The key cannot be pulled out in position 0.

Capacity at 12V:	15 A
------------------	------

Rated Voltage V	Connector type	Fitted Diameter mm	Rest Position	DU	Article no.
12	4 x 6,3 mm	19,5	1-0-2	1	70598045

Ignition-/Starter Switch



Restriction:	VAG
for OE number:	357 905 865 6N0 905 865

Plug Type	Connector type	DU	Article no.
Blade Terminal	6 x 6,3 mm	1	70513153

Ignition-/Starter Switch



Restriction:	VAG
for OE number:	4A0 905 849B 4A0 905 849 893 905 849

Plug Type	Connector type	DU	Article no.
Blade Terminal	8 x 6,3 mm	1	70513146

Ignition-/Starter Switch



Restriction:	Opel
for OE number:	914861 0914861 09115863

Plug Type	Connector type	DU	Article no.
Blade Terminal	5 x 2,8 mm	1	70513144

Ignition-/Starter Switch



Restriction:
for OE number: Opel
0914863
914863
90589314

Plug Type	Connector type	DU	Article no.
Blade Terminal	1 x 9,5 mm 4 x 6,3 mm 1 x 4,8 mm	1	70513142

Ignition-/Starter Switch



Restriction: VAG for OE number: 4B0 905 849

Plug Type	Connector type	DU	Article no.
Blade Terminal	8 x 6,3 mm	1	70513139

Ignition-/Starter Switch



Restriction:
for OE number: Opel
914856
0914856
90505912

Plug Type	Connector type	DU	Article no.
Blade Terminal	1 x 9,5 mm 4 x 6,3 mm 1 x 4,8 mm	1	70513138

Ignition-/Starter Switch



Restriction:
for OE number: Opel
914852
0914852
90389377

Plug Type	Connector type	DU	Article no.
Blade Terminal	1 x 9,5 mm 4 x 6,3 mm 1 x 4,8 mm	1	70513135

Ignition-/Starter Switch



Restriction:
for OE number: VAG
211 905 865 A
111905865L
111905865

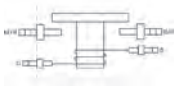
Plug Type	Connector type	DU	Article no.
Blade Terminal	4 x 6,3 mm 2 x 2,8 mm	1	70513080



5



Ignition-/Starter Switch



Capacity at 12V: 80 A
Combi Switch Function: Normally Open Contact

Rated Voltage V	Connector type	DU	Article no.
12	2 x 5/16" 2 x 3/16"	1	70469829





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- Tester, battery
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- Testing Unit, towbar socket

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Measuring technology
Tutorial





Voltage transformers

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Voltage Transformer



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» VOLTAGE TRANSFORMER



A voltage transformer converts direct current (DC) from 24V to 12V or up from 12V to 24V. There are a variety of different versions and outputs (Watt) available, ideal for operating e.g. In-Car-Entertainment-Systems and trailer lighting. We also offer special transformers for supplying a 24V ABS/

EBS system from a 12V onboard voltage. All voltage transformers are equipped to offer protection from short-circuit with reverse polarity protection, overload protection and overheating protection.



Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	3 A	WxHxD:	87 x 50 x 67 mm
Rated Power:	36 W		

Efficiency %	DU	Article no.
93	1	76300003

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	6 A	WxHxD:	87 x 50 x 89 mm
Rated Power:	72 W		

Efficiency %	DU	Article no.
93	1	76300006

Voltage Transformer



- supplies steady plus (term. 30) and ignition plus (term. 15) to maximum load
- real voltage separation, discharge protection effective on 12 V side
- protective functions: short circuit, overheating, reverse polarity

Input Voltage:	24 V	Mounting Type:	Special Connection
Output Voltage:	12 V	IP-Code:	IP69K
Rated Current:	10 A	WxHxD:	129 x 25 x 70 mm
Rated Power:	120 W	Info:	with attachment material

Efficiency %	Charging Rate mA	DU	Article no.
94	0,7	1	76300010



Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	12 A	WxHxD:	87 x 50 x 127 mm
Rated Power:	144 W		

Efficiency %	DU	Article no.
93	1	76300012

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	24 A	WxHxD:	87 x 50 x 167 mm
Rated Power:	288 W		

Efficiency %	DU	Article no.
93	1	76300024

Voltage Transformer



- supplies steady plus (term. 30) and ignition plus (term. 15) to maximum load
- real voltage separation, discharge protection effective on 12 V side
- protective functions: short circuit, overheating, reverse polarity

Input Voltage:	24 V	IP-Code:	IP69K
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	26 A	WxHxD:	70 x 40 x 200 mm
Rated Power:	312 W		

Efficiency %	Charging Rate mA	DU	Article no.
92	0,7	1	76300026

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	3 A	WxHxD:	67 x 50 x 87 mm
Rated Power:	36 W	Info:	Galvanically Insulated

Efficiency %	DU	Article no.
85	1	76310003

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	6 A	WxHxD:	87 x 50 x 127 mm
Rated Power:	72 W	Info:	Galvanically Insulated

Efficiency %	DU	Article no.
85	1	76310006

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	12 A	WxHxD:	87 x 50 x 167 mm
Rated Power:	144 W	Info:	Galvanically Insulated

Efficiency %	DU	Article no.
85	1	76310012

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	24 A	WxHxD:	87 x 50 x 217 mm
Rated Power:	288 W	Info:	Galvanically Insulated

Efficiency %	DU	Article no.
85	1	76310024

Voltage Transformer



This voltage transformer is ideal for powering in-car entertainment systems where both a switched circuit and a permanent circuit are required. Supplies steady plus (term. 30) and

ignition plus (term. 15).

- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	3 A	WxHxD:	87 x 50 x 67 mm
Rated Power:	36 W		

Efficiency %	DU	Article no.
90	1	76100065

Voltage Transformer



This voltage transformer is ideal for powering in-car entertainment systems where both a switched circuit and a permanent circuit are required. Supplies steady plus (term. 30) and

ignition plus (term. 15).

- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	24 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	12 A	WxHxD:	87 x 42 x 126 mm
Rated Power:	144 W		

Efficiency %	DU	Article no.
93	1	76100064





Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	48 V	IP-Code:	IP 53
Output Voltage:	12 V	Registration Type:	CE approved
Rated Current:	6 A	WxHxD:	87 x 50 x 89 mm
Rated Power:	72 W	Info:	with fastening material

Efficiency %	DU	Article no.
90	1	76102068

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	12 V	IP-Code:	IP 53
Output Voltage:	27,2 V	Registration Type:	CE approved
Rated Current:	3 A	WxHxD:	87 x 50 x 89 mm
Rated Power:	72 W		

Efficiency %	DU	Article no.
90	1	76350008

Voltage Transformer

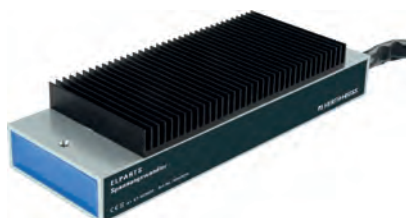


- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	12 V	IP-Code:	IP 53
Output Voltage:	27,2 V	Registration Type:	CE approved
Rated Current:	7 A	WxHxD:	87 x 50 x 167 mm
Rated Power:	168 W		

Efficiency %	DU	Article no.
90	1	76350009

Voltage Transformer



- protective functions: short circuit, over-heating, reverse polarity

Input Voltage:	12 V	Rated Power:	240 W
Output Voltage:	24 V	IP-Code:	IP69K
Rated Current:	10 A	WxHxD:	70 x 40 x 200 mm

Efficiency %	Charging Rate mA	Cable Length mm	Connector	DU	Article no.
83	8	550		1	76350010

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	12 V	IP-Code:	IP 53
Output Voltage:	27,2 V	Registration Type:	CE approved
Rated Current:	10 A	WxHxD:	87 x 50 x 217 mm
Rated Power:	240 W		

Efficiency %	DU	Article no.
90	1	76350011

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	12 V	IP-Code:	IP 53
Output Voltage:	24 V	Registration Type:	CE approved
Rated Current:	16 A	WxHxD:	233 x 74 x 125 mm
Rated Power:	400 W	Info:	with fastening material

Efficiency %	DU	Article no.
93	1	76350012

Voltage Transformer



- Protection from overvoltage, overheating and voltage peaks

Input Voltage:	12 V	IP-Code:	IP 53
Output Voltage:	24 V	Registration Type:	CE approved
Rated Current:	25 A	WxHxD:	283 x 74 x 125 mm
Rated Power:	600 W	Info:	with fastening material

Efficiency %	DU	Article no.
93	1	76350013

Voltage Transformer



- fulfils the legal requirement for reliability thanks to 100 % separate circuits
- compatible with light monitoring units
- ensures correct functioning of the ABS information module
- individual internal protection for each circuit against short circuit and overload

- power reserves when trailer has additional lights
- Restriction: the trailer control light on old, mechanical flasher units does not respond.

Input Voltage:	24 V	DIN/ISO:	11446
No. of terminals:	15		12098
Output Voltage:	12 V	Diameter:	75 mm
No. of terminals:	13		
Rated Power:	7 x 70 W		

Efficiency %	Length mm	DU	Article no.
97	200	1	76121155





Voltage Transformer



- fulfils the legal requirement for reliability thanks to 100 % separate circuits
- compatible with light monitoring units
- ensures correct functioning of the ABS information module
- individual internal protection for each circuit against short circuit and overload

- power reserves when trailer has additional lights
- Restriction: the trailer control light on old, mechanical flasher units does not respond.

Input Voltage: 24 V
No. of terminals: 7
Output Voltage: 12 V
No. of terminals: 7
Rated Power: 6 x 70 W

DIN/ISO: 1185 N-Typ
1724 N-Typ
Diameter: 75 mm

Efficiency %	Length mm	DU	Article no.
97	185	1	76121156

Voltage Transformer



- fulfils the legal requirement for reliability thanks to 100 % separate circuits
- compatible with light monitoring units
- ensures correct functioning of the ABS information module
- individual internal protection for each circuit against short circuit and overload

- power reserves when trailer has additional lights
- Restriction: the trailer control light on old, mechanical flasher units does not respond.

Input Voltage: 24 V
No. of terminals: 15
Output Voltage: 12 V
No. of terminals: 7
Rated Power: 6 x 70 W

DIN/ISO: 12098
1724 N-Typ
Diameter: 75 mm

Efficiency %	Length mm	DU	Article no.
97	175	1	76121157

Voltage Transformer



- fulfils the legal requirement for reliability thanks to 100 % separate circuits
- compatible with light monitoring units
- ensures correct functioning of the ABS information module
- individual internal protection for each circuit against short circuit and overload

- power reserves when trailer has additional lights
- Restriction: the trailer control light on old, mechanical flasher units does not respond.

Input Voltage: 24 V
No. of terminals: 7
Output Voltage: 12 V
No. of terminals: 13
Rated Power: 6 x 70 W

DIN/ISO: 1185 N-Typ
11446
Diameter: 75 mm

Efficiency %	Length mm	DU	Article no.
97	200	1	76121158

Voltage Transformer



- C2 monitoring lamp function secured on all flasher units, also for mechanical flasher units
- compatible with light monitoring units
- ensures correct functioning of the ABS information module

- encapsulated - waterproof and resistant to vibration
- internal protection against short circuit and overload
- power reserves when trailer has additional lights

Input Voltage: 24 V
Output Voltage: 12 V
Rated Power: 2 x 21 + 4 x 60 W
IP-Code: IP 67

Light Function: without reverse light
Hole Pitch: 185 mm
WxHxD: 70 x 25 x 200 mm
Info: for trailer

Efficiency %	Cable Length m	DU	Article no.
95	1,00 1,20	1	76121250

Voltage Transformer



- C2 monitoring lamp function secured on all flasher units, also for mechanical flasher units
- compatible with light monitoring units
- ensures correct functioning of the ABS information module
- encapsulated - waterproof and resistant to vibration
- internal protection against short circuit and overload
- power reserves when trailer has additional lights

Input Voltage: 24 V
Output Voltage: 12 V
Rated Power: 2 x 21 + 5 x 60 W
IP-Code: IP69K
Light Function: with reverse light
WxHxD: 70 x 25 x 200 mm
Info: for trailer

Efficiency %	Cable Length m	DU	Article no.
95	1,00 1,2	1	76121251

Voltage Transformer



- high current for additional functions like EBS and level control
- Information module function retained
- active reverse polarity protection without short-circuiting
- Overload protection
- resistant to reverse voltage regardless of polarity

Input Voltage: 12 to 24 V
Output Voltage: 24 V
Rated Current: 10 A
Rated Power: 240 W
IP-Code: IP 67
WxHxD: 70 x 40 x 200 mm

Efficiency %	Cable Length mm	DU	Article no.
80	350	1	76121352

Voltage Transformer



The ABS converter must be mounted in a suitable location. The converter is water-proof and mounted in the carrier. It must be mounted near the original 24 V ABS trailer socket in order for the cable to reach the box. The carrier must be mounted in a way so that the hinges of the box lid are on top. If the converter is not connected to the trailer, the socket must be inserted into the parking socket in order to prevent contamination. The converter is ready-for-use and has been installed in a stainless steel rack including parking socket. Suitable

for installation on trailers only. Pins 6 and 7 (CAN bus) are unused. The converter can only be used on the trailer side. It will have no effect if used on the towing vehicle.

- high current for additional functions like EBS and level control
- Information module function retained
- active reverse polarity protection without short-circuiting
- Overload protection
- resistant to reverse voltage regardless of polarity

Input Voltage: 12 to 24 V
Output Voltage: 24 V
Rated Current: 10 A
Rated Power: 240 W
Mounting Type: mounting
IP-Code: IP 65
Hole Pitch: 110 mm/ 280 mm
DIN/ISO: 7638
WxHxD: 300 x 90 x 150 mm

Efficiency %	Cable Length mm	DU	Article no.
80	400	1	76121353





Voltage Transformer



- C2 monitoring lamp function secured on all flasher units
- matches light control units
- ensures correct functioning of the ABS information module
- encapsulated - water-proof and resistant to

- vibration
- internal protection against short circuit and overload
- also supplies light diodes
- CAN bus compatible

Input Voltage: 12 V
Output Voltage: 24 V
Rated Power: 6 x 130 W
IP-Code: IP 67

Light Function: without reverse light
WxHxD: 280 x 25 x 75 mm
Info: for trailer

Efficiency %	Cable Length m	Connector	DU	Article no.
92	1,00 1,20		1	76121450
Accessories		see	DU	
Control Unit		Page 161	1	76121450012

Voltage Transformer



- C2 monitoring lamp function secured on all flasher units
- matches light control units
- ensures correct functioning of the ABS information module

- encapsulated - water-proof and resistant to vibration
- internal protection against short circuit and overload
- also supplies light diodes

Input Voltage: 12 V
Output Voltage: 24 V
Rated Power: 7 x 130 W
IP-Code: IP69K

Light Function: with reverse light
WxHxD: 280 x 25 x 75 mm
Info: for trailer

Efficiency %	Cable Length m	Connector	DU	Article no.
92	1,00 1,20		1	76121451
Accessories		see	DU	
Control Unit		Page 161	1	76121450012

Voltage Transformer



- Control by way of pulse width modulation
- Voltage reduction for lights only (also LED)
- CAN bus compatibility
- satisfies legal fail-safe requirements: Over-current and over-temperature, electronics

- sealed and protected
- Internal short circuit and overload protection

Input Voltage: 24 V
No. of terminals: 7
Output Voltage: 12 V
No. of terminals: 7
Rated Power: 6 x 70 W
DIN/ISO: 1724 N-Typ
Diameter: 274 mm

Efficiency %	Length mm	DU	Article no.
98	191	1	76121159

Voltage Transformer



- Control by way of pulse width modulation
- Voltage reduction for lights only (also LED)
- CAN bus compatibility
- satisfies legal fail-safe requirements: Over-current and over-temperature, electronics

- sealed and protected
- Internal short circuit and overload protection

Input Voltage: 24 V
No. of terminals: 7
Output Voltage: 12 V
No. of terminals: 13
Rated Power: 6 x 70 W
DIN/ISO: 1724 N-Typ
Diameter: 11446
70 mm

Efficiency %	Length mm	DU	Article no.
98	187	1	76121160

Control Unit



This is an expansion set for the voltage transformer for indicator operation, 12 V to 24 V with 6x or 7x indicators (130 W). Required for Mercedes-Benz Sprinter and Volkswagen Crafter vehicles from construction year 2010 onwards, in addition to vehicles with similar indicator activation. The expansion circuitry avoids malfunctions in trailer recognition (fast flash frequency) for these vehicles. The intro-

- duction of steady plus (terminal 30) is necessary.
- Corrects cold-scan impulses in the branches "Right indicator" and "Left rear light"
 - To be inserted into the corresponding branches of the transformer input
 - No further intervention in the vehicle electrics necessary

WxHxD: 28 x 41 x 28 mm Info: with screw

Rated Voltage V	Number of connectors	Bore Ø mm	Cable Length mm	Connector	DU	Article no.
12	5	5	510		1	76121450012





Inverter

Inverter

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Inverter



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Inverso 1000-12Si

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Inverso 1500-24Si

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Inverso 2500-12Si

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» INVERTERS



Make yourself independent!

Make yourself independent with our inverters. Simply connect to the vehicle battery wherever you are to use electronic devices. A multi-protection function prevents the device from overheating, surging and overcharging. An integrated miniature fan also protects against overheating. An acoustic signal and light signal warn you if your vehicle battery charge gets too low; if the vehicle battery is too weak, the device switches itself off automatically.

Please note:

Modified sine waves are not synonymous with regular current flow from the socket. However, many terminal devices require this regular current flow in order to start

or function. In this case, only the inverter series with pure sine wave (Inverso Si) can be used. The following devices always require a pure sine wave: coffee pod machines, flat-screen televisions, radiant heaters, electric shavers and toothbrushes, medical devices, laser printers, monitors, photocopiers, neon lights, large speed-regulated motors and compressors. A pure sine wave is recommended for hi-fi applications (humming may occur) and for speed-regulated electric tools.

Hotplates, fan heaters, lamps, laptops and desktop computers, hair dryers, refrigerators, coffee machines, kettles, toasters and fans/ventilators all operate smoothly with modified sine waves.



Inverter



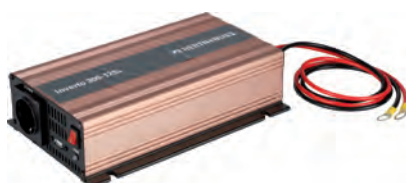
- protection against short circuit, overheating, overload and under-voltage

Input Voltage:	230 V	Registration Type:	CE approved
Output Voltage:	12 V	WxHxD:	136 x 70 x 162 mm
Rated Current:	5 A	Info:	with cigarette lighter socket
Rated Power:	60 W		

Efficiency %	Cable Length m	DU	Article no.
80	1,80	1	76103020

Inverto 300-12Si

Inverter



- protective functions: short-circuit, overheating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied
- inbuilt miniature fan
- acoustic alarm when battery is running low
- Output current form: purely sinusoidal

Input Voltage:	12 V	Connector:	with USB socket
Output Voltage:	230 V	Registration Type:	CE approved
Rated Current:	25 A	WxHxD:	260 x 72 x 170 mm
Rated Power:	300 W	Info:	with electric safety socket

Efficiency %	Frequency Range Hz	Cable Length m	DU	Article no.
82	50	1,00	1	76300300

Inverto 600-12Si

Inverter



- protective functions: short-circuit, overheating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied
- inbuilt miniature fan
- acoustic alarm when battery is running low
- Output current form: purely sinusoidal

Input Voltage:	12 V	Connector:	with USB socket
Output Voltage:	230 V	Registration Type:	CE approved
Rated Current:	50 A	WxHxD:	330 x 72 x 170 mm
Rated Power:	600 W	Info:	with electric safety socket

Efficiency %	Frequency Range Hz	Cable Length m	DU	Article no.
82	50	1,00	1	76300600

Inverto 1000-12Si

Inverter



- protective functions: short-circuit, overheating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied
- inbuilt miniature fan
- acoustic alarm when battery is running low
- Output current form: purely sinusoidal

Input Voltage:	12 V	Registration Type:	CE approved
Output Voltage:	230 V	WxHxD:	390 x 94 x 193 mm
Rated Current:	83 A	Info:	with remote control
Rated Power:	1000 W		with electric safety socket
Connector:	with USB socket		

Efficiency %	Frequency Range Hz	Cable Length m	DU	Article no.
82	50	1,00	1	76301000

Inverto 1000-24Si

Inverter



- protective functions: short-circuit, over-heating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied

- inbuilt miniature fan
- acoustic alarm when battery is running low
- Output current form: purely sinusoidal

Input Voltage: 24 V
Output Voltage: 230 V
Rated Current: 41,5 A
Rated Power: 1000 W
Connector: with USB socket

Registration Type: CE approved
WxHxD: 390 x 94 x 193 mm
Info: with remote control with electric safety socket

Efficiency %	Frequency Range Hz	Cable Length m	DU	Article no.
82	50	1,00	1	76301002

Inverto 1500-12Si

Inverter



- protective functions: short-circuit, over-heating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied
- inbuilt miniature fan

- acoustic alarm when battery is running low
- automatic switch-off when battery level weak
- Output current form: purely sinusoidal

Input Voltage: 12 V
Output Voltage: 230 V
Rated Current: 125 A
Rated Power: 1500 W
Connector: with USB socket

Connection type outlet: Shockproof socket
Registration Type: CE approved
WxHxD: 420 x 94 x 193 mm
Info: with remote control

Efficiency %	Frequency Range Hz	Cable Length m	DU	Article no.
82	50	1,00	1	76301500

Inverto 1500-24Si

Inverter



- protective functions: short-circuit, over-heating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied
- inbuilt miniature fan

- acoustic alarm when battery is running low
- automatic switch-off when battery level weak
- Output current form: purely sinusoidal

Input Voltage: 24 V
Output Voltage: 230 V
Rated Current: 62,5 A
Rated Power: 1500 W
Connector: with USB socket

Connection type outlet: Shockproof socket
Registration Type: CE approved
WxHxD: 420 x 95 x 193 mm
Info: with remote control

Efficiency %	Frequency Range Hz	Cable Length m	DU	Article no.
82	50	1,00	1	76301502

Inverto 2500-12Si

Inverter



- protective functions: short-circuit, over-heating, reverse polarity protection, over-voltage, under-voltage
- automatically restarts once short-circuit has been remedied
- inbuilt miniature fan
- acoustic alarm when battery is running low
- automatic switch-off when battery level weak
- Output current form: purely sinusoidal

Input Voltage: 12 V
Output Voltage: 230 V
Rated Current: 208 A
Rated Power: 2500 W
Connection type outlet: Shockproof socket

Registration Type: CE approved
WxHxD: 480 x 100 x 289 mm
Info: with remote control without cable

Efficiency %	Frequency Range Hz	DU	Article no.
85	50	1	76302500
Accessories		see	DU
Cable, welding machine H01N2-D		Katalog04	5 51275826000
Electric Cable FLY		Katalog04	25 51275116005





Alternator regulator

Alternator Regulator

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Alternator Regulator



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Alternator Regulator



Operating voltage:
Restriction:
Diameter:

28,5 V
Bosch
28 mm

Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
24	1	35000138

Alternator Regulator



Operating voltage: 14,1 V
Restriction: Bosch
Diameter: 32 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000140

Alternator Regulator



Operating voltage: 14,1 V
Restriction: Bosch
Diameter: 28 mm
Info: with load resistor
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000143

Alternator Regulator



Operating voltage: 14,2 V
Restriction: Bosch
Diameter: 32 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000144

Alternator Regulator



Operating voltage: 14,5 V
Restriction: Bosch
Diameter: 14 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000147

Alternator Regulator



Operating voltage: 14,5 V
Restriction: Bosch
Diameter: 28 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000148





Alternator Regulator



Operating voltage: 14,5 V
Restriction: Bosch
Diameter: 14 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000151

Alternator Regulator



Operating voltage: 14,5 V
Restriction: Bosch
Diameter: 14 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000152

Alternator Regulator



Operating voltage: 14,1 V
Diameter: 28 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000153

Alternator Regulator



Operating voltage: 28 V
Restriction: Bosch
Diameter: 28 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
24	1	35000157

Alternator Regulator



Operating voltage: 14,1 V
Restriction: Motorola
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000162

Alternator Regulator



Operating voltage: 28 V
Restriction: Bosch
Diameter: 32 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
24	1	35000170

Alternator Regulator



Operating voltage: 28 V
Restriction: Bosch
Diameter: 28 mm
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
24	1	35000172

Alternator Regulator



Operating voltage: 14,5 V
Restriction: Motorola
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000177

Alternator Regulator



Operating voltage: 14,3 V
Restriction: Bosch
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000186

Alternator Regulator



Operating voltage: 28,5 V
Restriction: Bosch
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
24	1	35000191





Alternator Regulator



Operating voltage: 14,1 V
Restriction: Bosch
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35000198

Alternator Regulator



Operating voltage: 14,4 V
Restriction: Magneti Marelli
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35005006

Alternator Regulator



Operating voltage: 14,6 V
Restriction: Iskra
Yugo
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35006010

Alternator Regulator



Operating voltage: 14,4 V
Restriction: Iskra
Lada
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35006012

Alternator Regulator



Operating voltage: 14,4 V
Restriction: Lucas
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35009014

Alternator Regulator



Operating voltage: 14,6 V
Restriction: Paris Rhone
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35931011

Alternator Regulator



Operating voltage: 14,6 V
Restriction: Paris Rhone
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35931022

Alternator Regulator



Operating voltage: 14,6 V
Restriction: Paris Rhone
Alternator type: Alternator regulator negative regulation

Rated Voltage V	DU	Article no.
12	1	35931031

Alternator Regulator



Operating voltage: 14,4 V
Restriction: Bosch
Alternator type: Alternator regulator positive regulation

Rated Voltage V	DU	Article no.
12	1	35000146

Alternator Regulator



Operating voltage: 14,3 V
Restriction: Nippon Denso
Alternator type: Alternator regulator positive regulation

Rated Voltage V	DU	Article no.
12	1	35122003

Alternator Regulator



Operating voltage: 28,3 V
Restriction: Bosch
Alternator type: Alternator regulator positive regulation

Rated Voltage V	DU	Article no.
24	1	35003011



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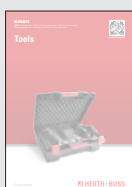




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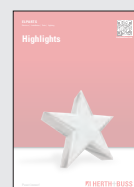
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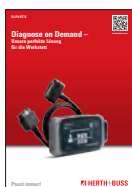
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