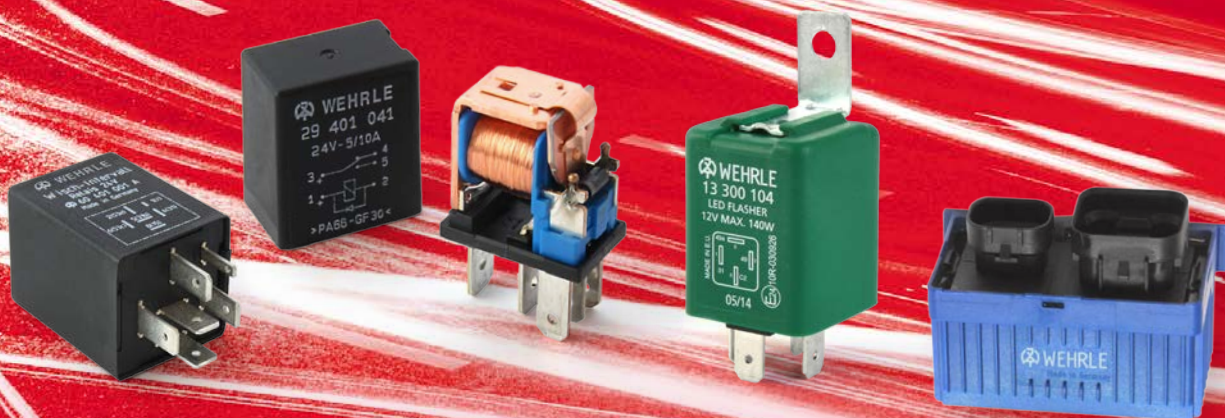
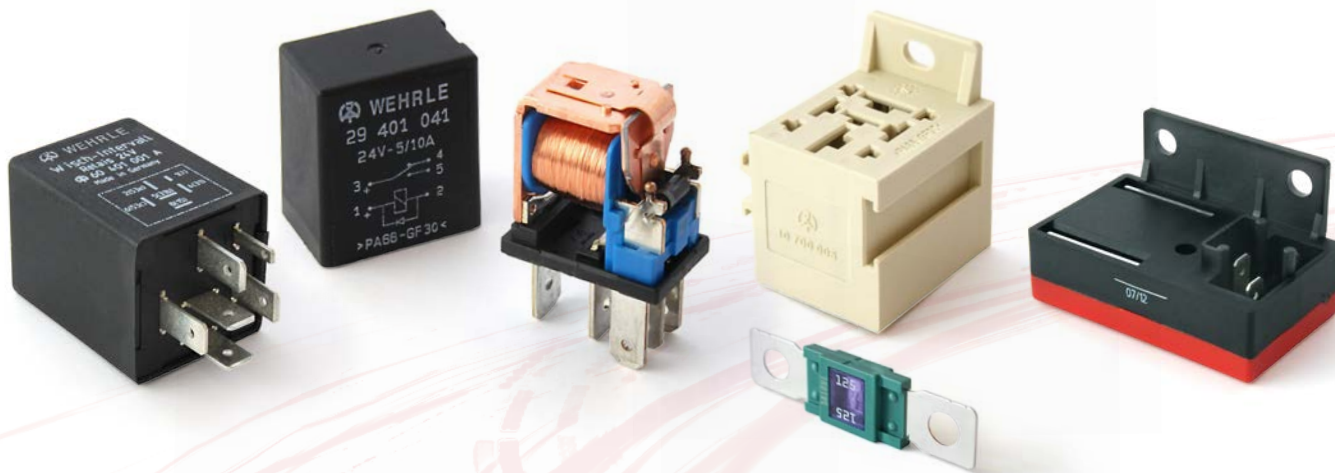


WEHRLE



Automotive Electronics



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Independent Aftermarket		Independent After
Powertrain Systems	Vision Systems	Fuel Systems
4WD Systems Vacuum pumps Power Steering pumps	Outside mirror Lighting Re flectors Head lamps	Fuel caps Radiator caps Oil caps Fuel tanks
		



market + Industry	Offroad Competence Center	
Automotive Electronics	Offroad Components	PUCH G / PINZGAUER
Relays Flasher units Glow plug control units Camera systems WEHRLE 	Hutchinson wheels Suspensions Recovery Differential lock Hunting and travel equipment MH 4x4	Spare parts and accessories Used vehicles Workshop 



We are the worldwide service and sales partner for spare parts and remanufacturer for all well-known car brands.

As aftermarket expert with a large automotive spare parts portfolio, S-TEC has established itself internationally and earned a reputation for reliable distribution and maintenance services to OEM standards.

We offer

- Powertrain Systems
- Vision Systems
- Fuel Systems
- Electronic Systems
- Offroad Components
- PUCH G / PINZGAUER Parts
- Service / Workshop

We set the agenda for the efficient mobility of the future with an uncompromising commitment to quality combined with perfection down to the last detail.

We believe that a modern business/management/company is not only determined by the quality of its products but also by its managerial culture that is the result of commitment and sense of responsibility of every single employee.

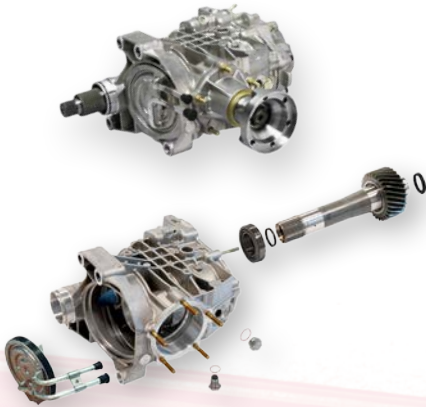
S-TEC was founded in 2006 in the middle of the Austrian Automobile Cluster and has been operating since then with different product groups and brands in different customer segments.

In the automotive world, brands such as BLAU, WEHRLE and PUCH have been known for unique flexibility, innovation and quality for decades.

These values are also seen as core competencies by the other divisions and brands within S-TEC.



Powertrain Systems 4WD Systeme

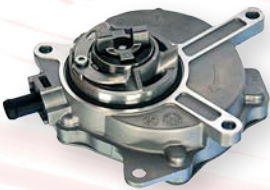


S-TEC is recognized as one of the world's leading providers of all-wheel drives and has achieved an important competitive advantage, especially regarding the manufacturing and integration of complete systems. Tailored repair kits and components neatly round off the range.

Lovers of vintage and premium cars are always the first to appreciate an expert repair and maintenance service. S-TEC offers a professional all-wheel drive and manual transmission remanufacturing service for precious cars.



Powertrain Systems Vakuum pumps



S-TEC's vacuum pumps are designed and tested in cooperation with leading automotive OEMs. Based on decades of production experience the pumps have been tailored to the individual requirements of different automotive markets. Extensive tests demonstrate their superior performance, high reliability and durability.

Furthermore our vacuum pumps operate with maximum efficiency to achieve key commercial and technical requirements (e.g. fuel consumption, capacity, etc.)



Powertrain Systems Steering pumps



Power steering pumps can significantly contribute to the improvement of safety and steering behavior. S-TEC uses this potential and creates extraordinary results through continuous improvement and optimization. Our power steering pumps have been developed in cooperation with leading automotive manufacturers in order to tailor them to the specific customers' demands.

The combination of this branch-specific knowledge and years of experience, as well as state-of-the-art technologies, guarantee maximum efficiency and minimal abrasion.

Our Products



Vision Systems

Intelligent mirrors, Lighting and Reflections by S-TEC are synonymous with precision, fit and ease of installation. In operation, they provide safety and comfort.

At S-TEC, we marry advanced functionality to proven OEM standards with smart design.

Our understanding of visual aspects is by no means limited to the optimization of the field of vision, high resolution, brightness, reflections etc., it also encompasses the design of the products themselves.



Fuel Systems

Stringent safety and environmental standards for vehicles call for cap and reservoir systems with functionalities of an ever increasing complexity.

Striving to find solutions for the latest technological challenges, the S-TEC brand BLAU, a specialist for caps and reservoirs, does not solely rely on decades of experience. BLAU also engages in development activities and promotes the transfer of professional know-how: our R&D department maintains constant contact with international OEMs and exploits available synergies to build knowledge co-operatively.



Automotive Electronics



Committed to quality. For S-TEC's brand WEHRLE, this is not just a phrase, it sums up the very essence of our corporate philosophy. For more than 60 years, every WEHRLE product, every process and every customer relationship has had to pass the test of quality.

The renowned expert for electronics components and systems, internationally established in the automotive industry, is leveraging its experience to deliver comprehensive and rapidly available state-of-the-art solutions in an environment where stringent quality control is relentlessly enforced.

Our Products



Offroad Competence Center Components

Real 4x4 lovers and their cars have only one rule: 100% performance in every situation and without compromise. MH4x4 allows also no compromise when we choose our partners and products. We want great reliability in every adventure our customers take. Our products have to keep their promises – we test it ourselves before it comes up to sale.

On top we provide customized service and support from our in-house experts, which have plenty years of offroad experience themselves.

Original quality



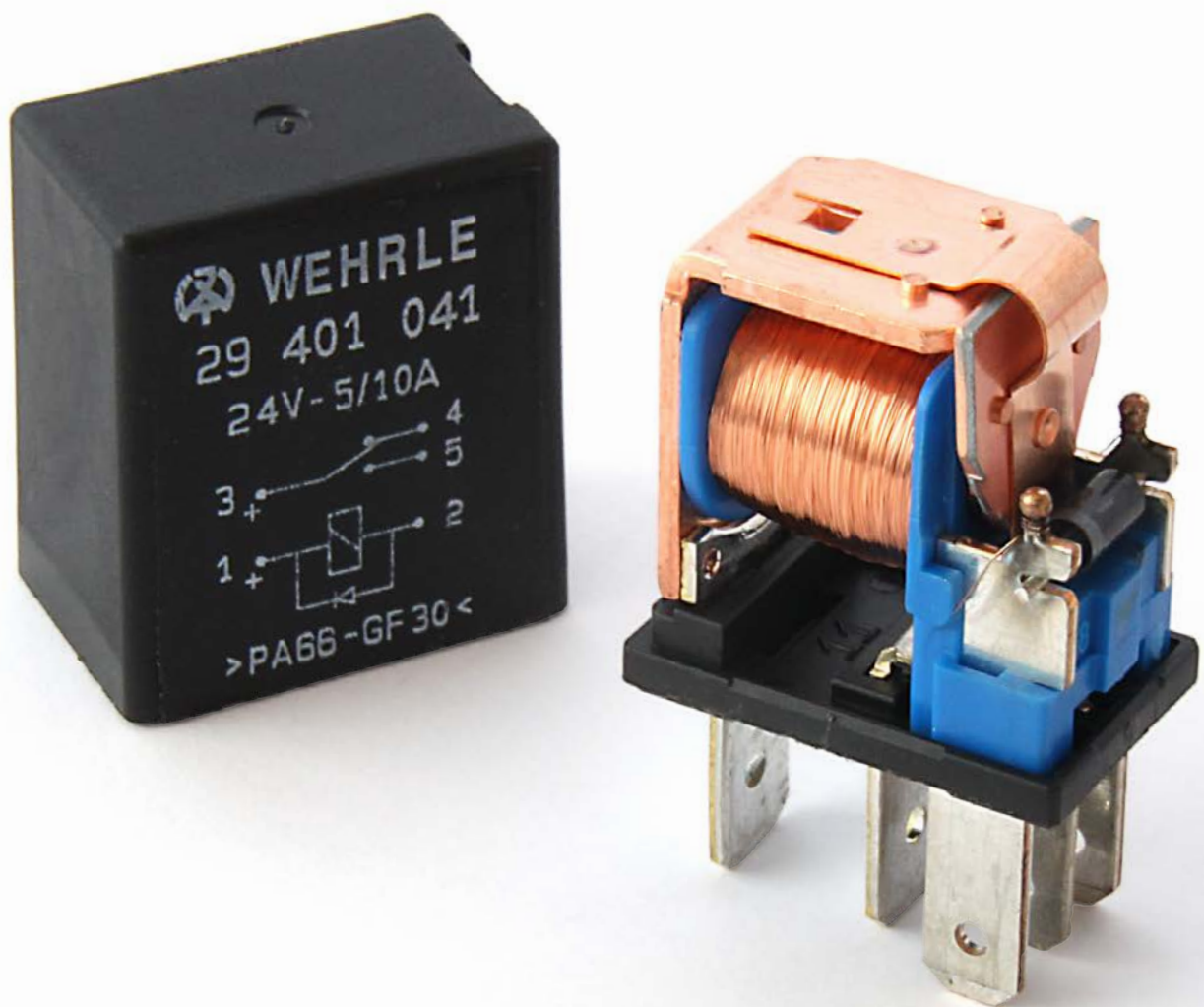
Offroad Competence Center PUCH G & PINZGAUER

Many years ago, the PUCH G & PINZGAUER cars were developed with passion and professionalism in Graz, but until today they are the loved icons for the offroad aficionados.

To protect them a very long life S-TEC established a unique offroad competence center with the exclusive knowledge of the former PUCH Customer Service. S-TEC is the number one sales representative for PUCH G & PINZGAUER spare parts worldwide with more than 30.000 parts in original quality.



Switching Relays

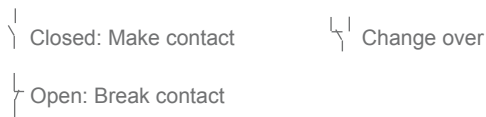


Switching Relays

WEHRLE direct-current-relays are used for the switching of high currents with small control-wire diameters and voltage drops. They are used for numerous applications. We would be happy to assist you in finding the correct relay.

Technical terms for relays:

1. Pull-in voltage: Lowest value of the energizing voltage, by which the relay picks up.
2. Drop-out voltage of a relay: Energizing voltage by which the relay reverts to stationary position.
3. Nominal voltage: Voltage for which the relay is designed.
4. Electrical service life: Number of operations with which the relay may be in service electrically.
5. Continuous current: the current which a relay can carry with a given temperature.
6. Contact consumption: Material loss of the contacts as a result of evaporation due to the influence of an electrical arc.
7. Contact clearance: Clearance between the open contacts, measured at its narrowest point.
8. Contact type:



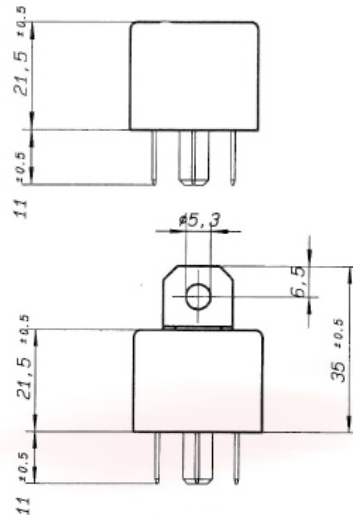
9. Contact voltage drop: Voltage drop between the relays connectors of the closed contact by a defined current power.
10. Contact power: Power through which the contacts touch.
11. Contact making material: WEHRLE offers relays in various contact making materials. Depending on the criteria, the following materials are available to WEHRLE: PdCu, AgNi, AgCuNi und AgSnO₂.
 - PdCu: Suited for circuit pulsed operation. For example: Flasher Unit usage. Drawback: high contact voltage drop.
 - AgNi/AgCuNi: Suited as a conduit for current and switch of ohmic and inductive loads for example: rear view mirror heating, motors and valves.
 - AgSnO₂: Suited for switching of capacitive and inductive loads. For example: H4 lamps, motors, glow plugs. Drawback: fluctuating contact voltage drops, through oxide.
12. Break contact: Relays contact which is closed when the relay is in a resting position and open when it is in a working position.
13. Contact-load voltage: Is the voltage between the contacts.
14. Make contact: Relays contact where in a resting position the relay is open and in the working position the relay is closed.
15. Circuit of coil: Switching off results in induction voltage which may result in a disruption of the electrical system. In order to avoid or reduce this a circuit of the coil with a choice of resistor, diode or breakdown diode may be used. With this circuit, the switching time will be increased and as a result, the service life may be reduced. Therefore, it is necessary to examine the application.

Mini-Relays A

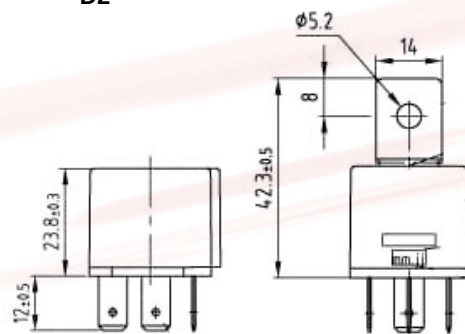


Dimensions

D1

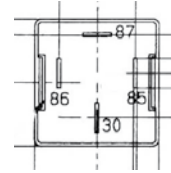


D2

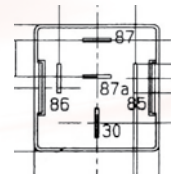


Terminal Configurations

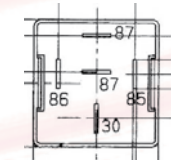
A1



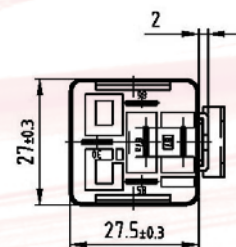
A2



A3

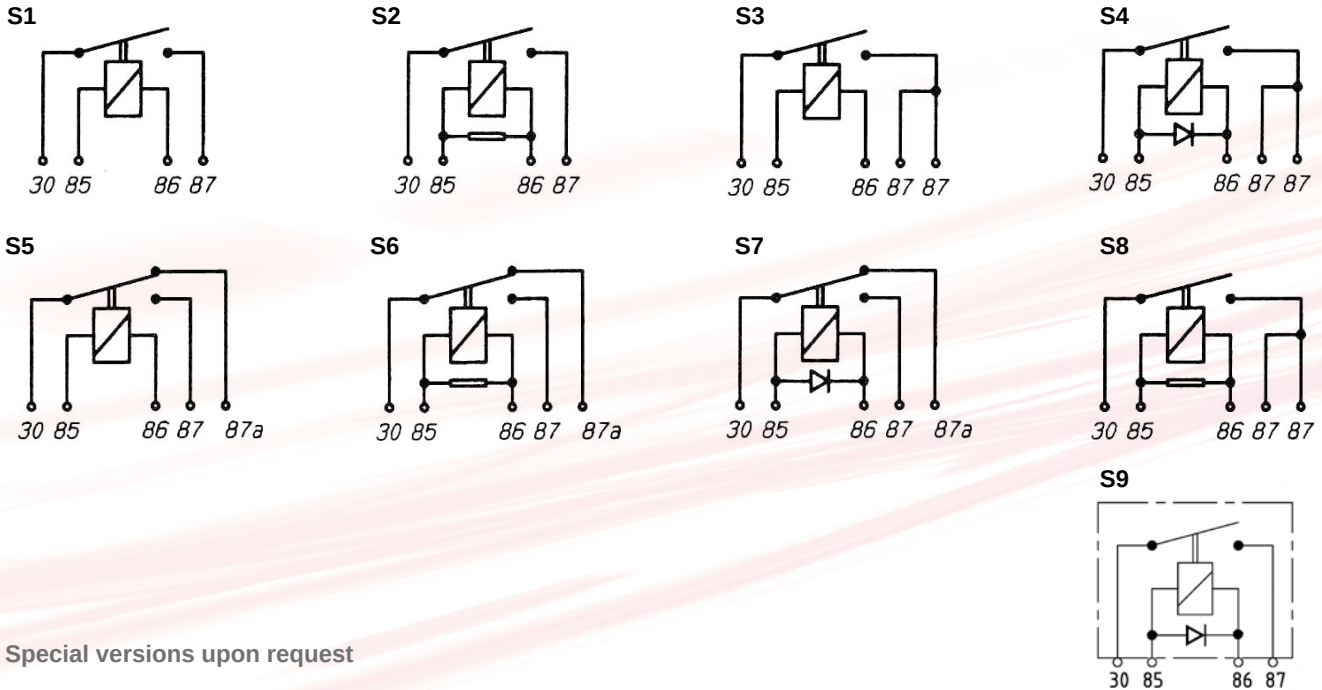


A4



Mini-Relays A

Circuit Diagrams



Special versions upon request

Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Terminal configuration	Circuit diagram	Dimension	Lasche	Component Diode/Widerst.	Type of protection
20 200 000A	Schließer/N.O.	12	30	A1	S1	D2	-	-	IP54
20 200 001A	Schließer/N.O.	12	30	A1	S2	D2	-	Widerst. / Resistor	IP54
20 200 100A	Schließer/N.O.	12	30	A1	S1	D2	■	-	IP54
20 207 100A	Schließer/N.O.	12	30	A4	S3	D2	■	-	IP54
20 207 101A	Schließer/N.O.	12	30	A3	S8	D1	■	Widerst. / Resistor	IP54
20 207 103A	Schließer/N.O.	12	30	A4	S4	D2	■	Diode	IP54
20 240 073	Schließer/N.O.	12	40	A1	S2	D1	-	Widerst. / Resistor	IP54
20 201 000A	Wechsler/C.O.	12	20/30	A2	S5	D2	-	-	IP54
20 201 001A	Wechsler/C.O.	12	20/30	A2	S6	D1	-	Widerst. / Resistor	IP54
20 201 100A	Wechsler/C.O.	12	20/30	A4	S5	D2	■	-	IP54
20 201 101	Wechsler/C.O.	12	20/30	A2	S6	D1	■	Widerst. / Resistor	IP54
20 201 103	Wechsler/C.O.	12	20/30	A2	S7	D1	■	Diode	IP54
13 003 663	Wechsler/C.O.	12	25	A2	S7	D1	■	Diode, verschweisst / welded	IP54
20 400 000A	Schließer/N.O.	24	20	A1	S1	D2	-	-	IP54
20 400 001A	Schließer/N.O.	24	20	A1	S2	D2	-	Widerst. / Resistor	IP54
20 400 003A	Schließer/N.O.	24	20	A1	S9	D2	-	Diode	IP54
20 400 100A	Schließer/N.O.	24	20	A1	S1	D2	■	-	IP54
20 400 103A	Schließer/N.O.	24	20	A1	S9	D2	■	Diode	IP54
20 407 000A	Schließer/N.O.	24	20	A4	S3	D2	-	-	IP54
20 407 100A	Schließer/N.O.	24	20	A4	S3	D2	■	-	IP54
22 400 002B	Schließer/N.O.	24	20	A1	S2	D1	-	Widerst. vergossen / Resistor moulded	IP67
20 401 000A	Wechsler/C.O.	24	10/20	A2	S5	D2	-	-	IP54
20 401 003	Wechsler/C.O.	24	10/20	A2	S7	D1	-	Diode	IP54
20 401 100A	Wechsler/C.O.	24	10/20	A4	S5	D2	■	-	IP54
20 401 101A	Wechsler/C.O.	24	10/20	A1	S2	D2	■	Widerst. / Resistor	IP54
20 401 101	Wechsler/C.O.	24	10/20	A2	S6	D1	■	Widerst. / Resistor	IP54
20 401 103	Wechsler/C.O.	24	10/20	A2	S7	D1	■	Diode	IP54

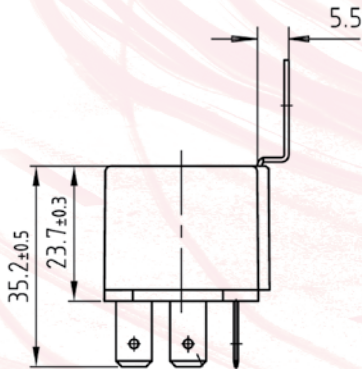
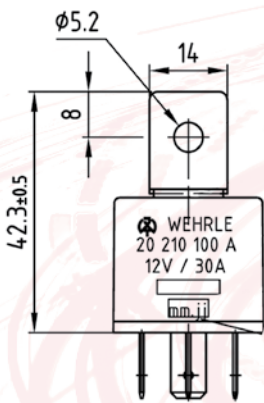
N.O. = Normally Open Contact Relay
C.O. = Change Over Contract Relay

30 85 86 87 87a
(3) (2) (1) (5) (4)

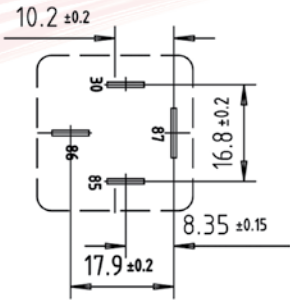
Mini-Relays B



Dimensions

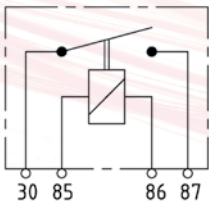


Terminal Configurations

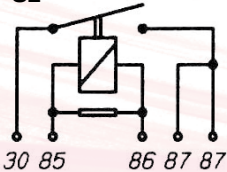


Circuit Diagram

S1



S2



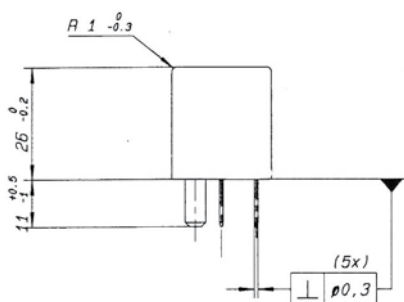
Item No.	Contact type	Nominal voltage Volt (V)	Nennschaltstrom Ampere (A)	Circuit Diagram	Bracket	Component Diode / Resistor
20 210 100A	Schließer/N.O.	12	30	S1	■	-
20 210 101A	Schließer/N.O.	12	30	S2	■	Resistor
20 410 100A	Schließer/N.O.	24	20	S1	■	-

N.O. = Normally Open Contact Relay all Terminals 6,3 x 0,8mm

Micro-Relays

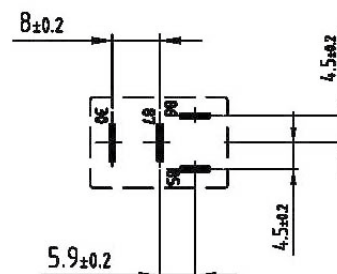


Dimensions

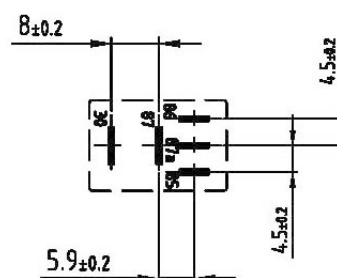


Terminal Configurations

A1

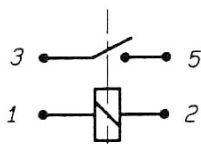


A2

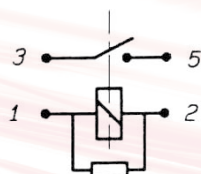


Circuit Diagram

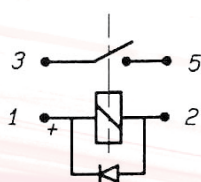
S1



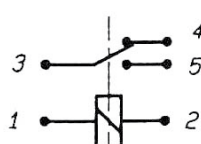
S2



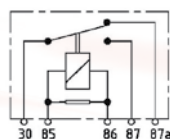
S3



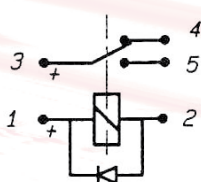
S4



S5



S6



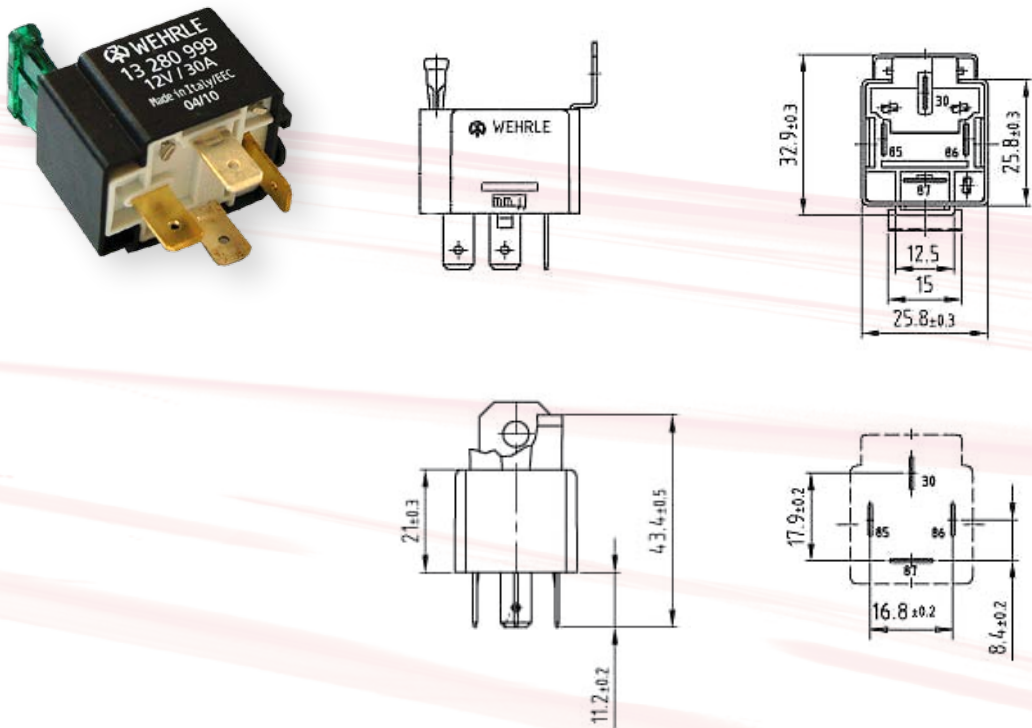
Item No.	Contact type	Nominal voltage Volt (V)	Nennschaltstrom Ampere (A)	Terminal Configuration	Circuit Diagram	Component Diode / Resistor
29 200 006A	Schließer/N.O.	12	25	A1	S1	-
29 200 045A	Schließer/N.O.	12	25	A1	S3	Diode
29 200 075A	Schließer/N.O.	12	25	A1	S2	Resistor
29 201 005	Wechsler/C.O.	12	10/20	A2	S4	-
29 201 045	Wechsler/C.O.	12	15/25	A2	S6	Diode
29 201 075A	Wechsler/C.O.	12	15/25	A2	S5	Resistor
13 405 101	Wechsler/C.O.	24	5/10	A2	S5	Resistor
29 401 000	Wechsler/C.O.	24	5/10	A2	S4	-
29 401 041	Wechsler/C.O.	24	5/10	A2	S6	Diode
13 404 101	Schließer/N.O.	24	10	A1	S2	Resistor

N.O. = Normally Open Contact Relay
C.O. = Change Over Contact Relay

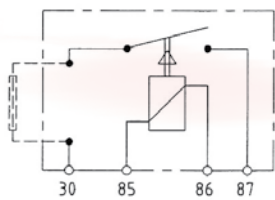
1 2 3 4 5
86 85 30 87a 87

Relays with Fuse

Terminal Configuration / Dimensions



Circuit Diagrams



Item No.	Contact type	Nominal voltage Volt (V)	Nennschaltstrom Ampere (A)
13 280 999	Relais m. Sicherung / Relays w. Fuse	12	30
20 200 102A	Relais m. Sicherung / Relays w. Fuse	12	15
13 480 201	Relais m. Sicherung / Relays w. Fuse	24	20

Alle Anschlüsse 6,3 x 0,8mm
All terminals 6,3 x 0,8mm

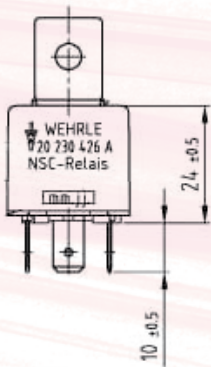
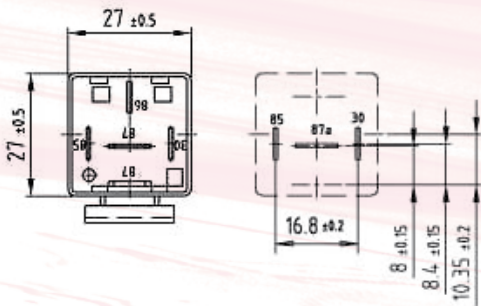
Switch-off Relays for Rear Fog Lamps



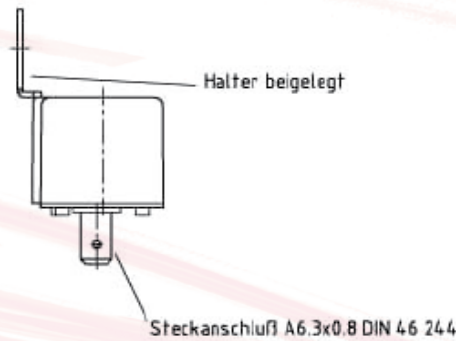
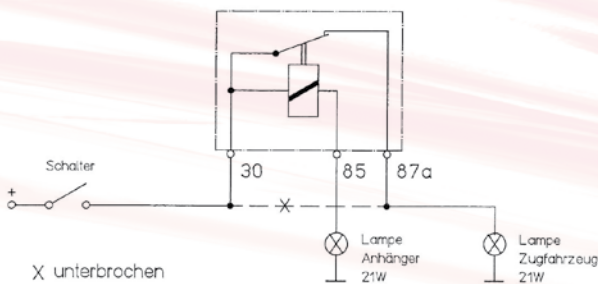
Current Relays

To switch off automatically one or two rear fog light lamps in case of a trailer being connected to the towing vehicle (fitted with rear fog lights). Fits all brands.

Dimensions



Circuit Diagrams



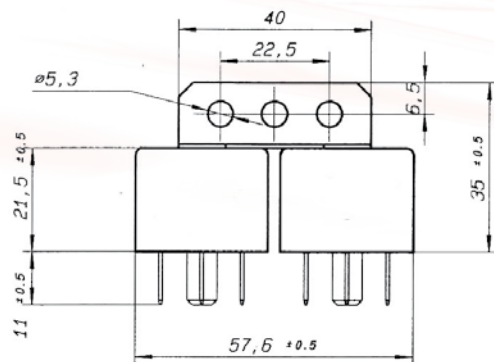
Item No.	Contact type	Nennspannung Volt (V)	Nominal current Ampere (A)
20 230 426B	Öffner/N.C.	12	Max. 2 x 21 Watt

N.C. = Normally closed Contact Relay
All Terminals 6,3 x 0,8mm

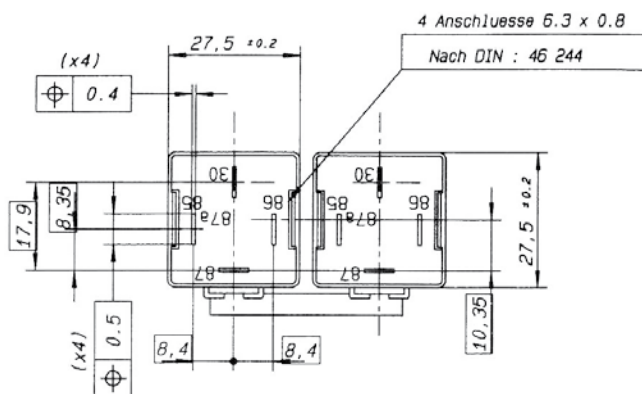
Twin Relays



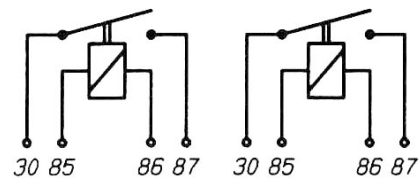
Dimensions



Terminal Configurations



Circuit Diagrams



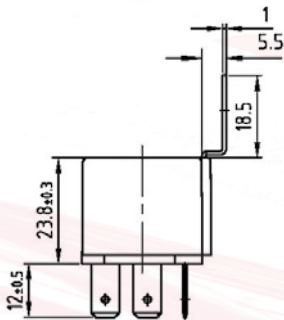
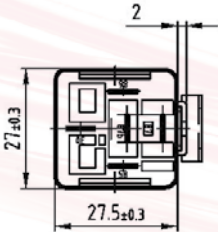
Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)
20 206 100A	Schließer/N.O.	12	2 x 30

N.O. = Normally Open Contact Relay All Terminals 6,3 x 0,8mm

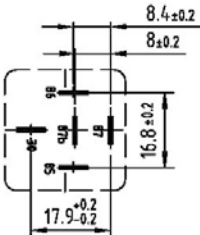
Double Contact Relays



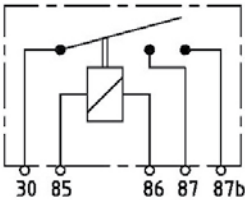
Dimensions



Terminal Configuration



Circuit Diagram



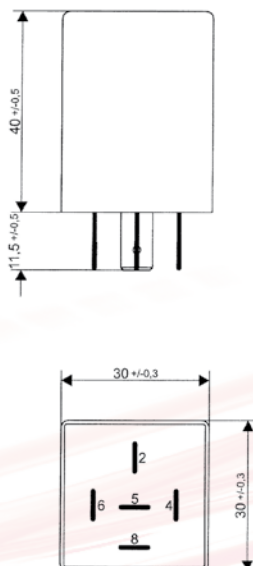
Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)
13 203 120A	Schließer / N.O.	12	2 x 20
13 403 115	Schließer / N.O.	24	2 x 15

N.O. = Normally Open Contact Relay All terminals 6,3 x 0,8mm

Double Relays

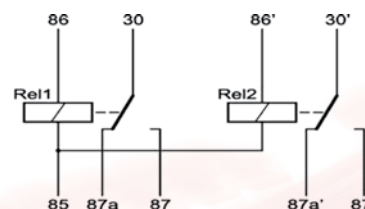


Dimensions

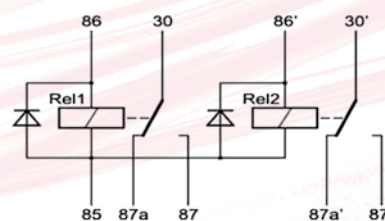


Circuit Diagrams

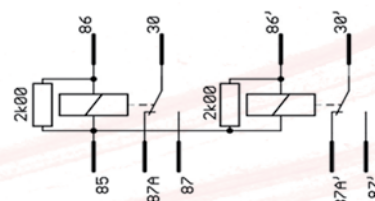
S1



S2



S3

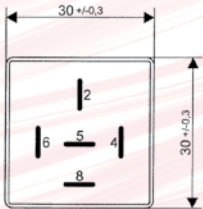
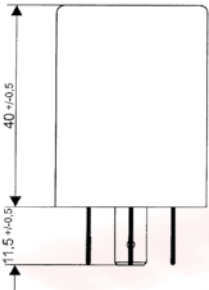


Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Circuit diagram	Component
13 251 000	2 x Wechsler/C.O.	12	2 x 10A	S1	-
13 251 100	2 x Wechsler/C.O.	12	2 x 10A	S2	m. Freilaufdiode / recovery diode
13 251 200	2 x Wechsler/C.O.	12	2 x 10A	S3	m. Dämpfungswiderst. / absorb. resis.
13 451 000	2 x Wechsler/C.O.	24	2 x 10A	S1	-
13 451 100	2 x Wechsler/C.O.	24	2 x 10A	S2	m. Freilaufdiode / recovery diode
13 451 200	2 x Wechsler/C.O.	24	2 x 10A	S3	m. Dämpfungswiderst. / absorb. resis.

Stepping Relays



Dimensions



Circuit Diagram



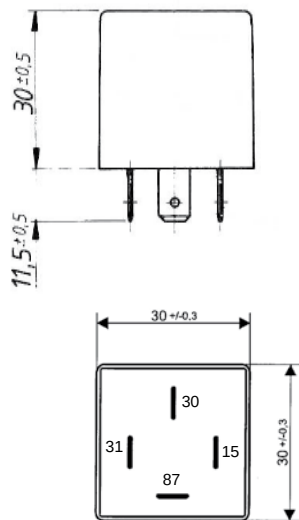
Stepping Relays are used everywhere where services are turned on or off by means of a switch. For exemple oxilary-headlight.

Item No.	Nominal voltage Volt (V)	Max. flow Ampere (A)	Triggering input
13 271 000	12	20A / 10A	positive triggering
13 272 000	12	20A / 10 A	negative triggering
13 471 000	24	20A / 10A	positive triggering
13 472 000	24	20A / 10 A	negative triggering

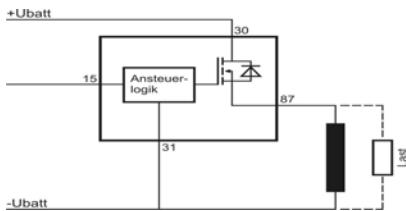
Solid State Relays



Dimensions



Circuit Diagram



Solid-State-Relays are used to trigger inductive loads. Pulse width modulation is possible. These relays make no switching noise, but are sensitive to vibration. Typical application: lamps, fans, blowers.

PWM = Pulsweiten Modulation

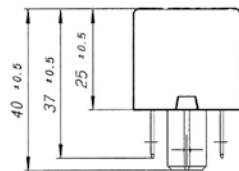
Item No.	Nominal voltage Volt (V)	Nominal current Ampere (A)
13 275 000	12	4A pos. HSD
13 275 100	12	10A pos. HSD
13 275 200	12	10A neg. HSD
13 475 000	24	4A neg. HSD
13 475 100	24	25A pos. HSD
13 475 200	24	25A neg. HSD

High Performance Relays 12V

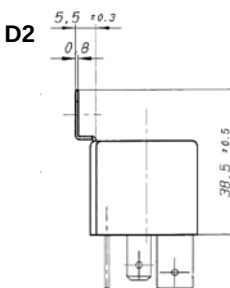


Dimensions

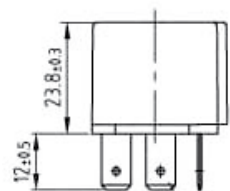
D1



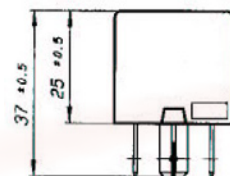
D2



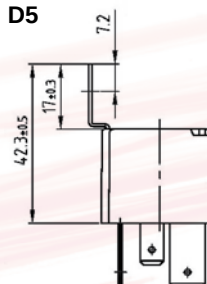
D3



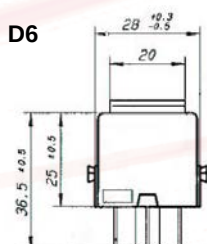
D4



D5

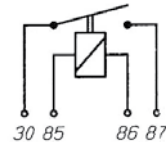


D6

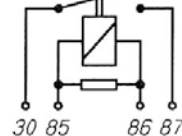


Circuit Diagrams

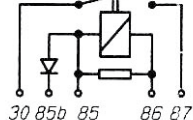
S1



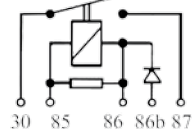
S2



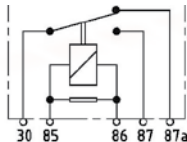
S3



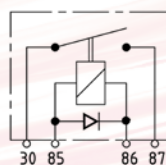
S4



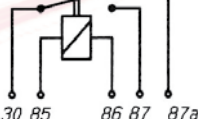
S5



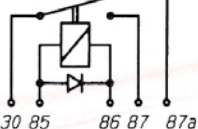
S6



S7

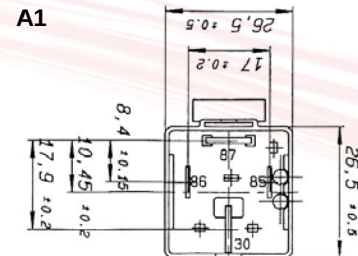


S8

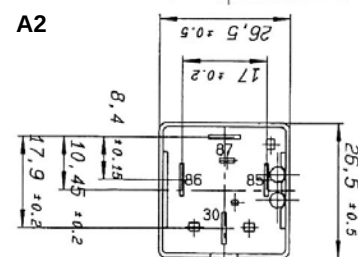


Terminal Configurations

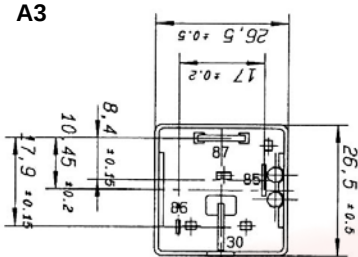
A1



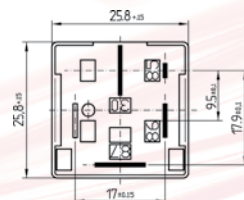
A2



A3



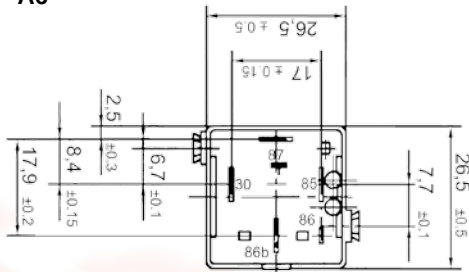
A5



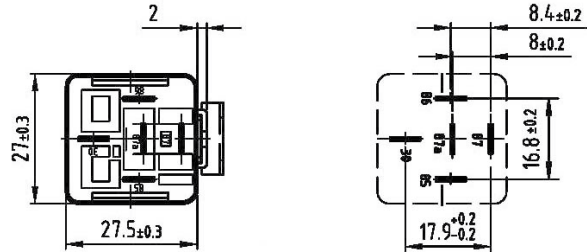
High Performance Relays 12V

Terminal Configurations

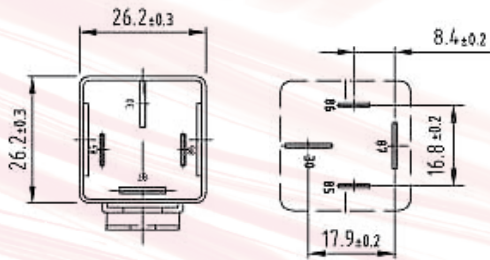
A6



A8



A7



Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Terminal config.	Circuit diagram	Dimension	Bracket	Component Diode / Resistor
13 201 140	Wechsler/C.O.	12	30/40	A8	S5	D3	■	Widerst./Resis.
13 201 150	Wechsler/C.O.	12	30/40	A8	S7	D3	■	
13 201 160	Wechsler/C.O.	12	30/40	A8	S8	D3	■	Diode
13 204 004	Schließer/N.O	12	20	A5	S2	D1	-	Resis.
22 200 011	Schließer/N.O	12	70	A1	S1	D1	-	-
22 200 117A	Schließer/N.O.	12	70	A7	S1	D5	■	-
22 200 119	Schließer/N.O	12	70	A7	S6	D5	■	Diode
22 200 030	Schließer/N.O	12	40	A2	S2	D6	-	Resis.
22 200 035	Schließer/N.O	12	30	A5	S2	D6	-	Resis.
22 200 106A	Schließer/N.O	12	40	A2	S1	D3	■	-
22 200 109A	Schließer/N.O	12	40	A2	S6	D3	■	Diode
22 204 013	Schließer/N.O	12	70	A1	S2	D1	-	Resis.
22 204 030A	Schließer/N.O	12	50	A7	S2	D1	-	Resis.
22 210 036	Schließer/N.O	12	40	A2	S2	D4	-	Resis.
22 210 037A	Schließer/N.O.	12	40	A3	S3	D4	-	Diode
22 210 531	Schließer/N.O	12	30	A6	S4	D6	-	Resis. + Diode

N.O. = Normally Open Contact Relay
C.O. = Change Over Contract Relay

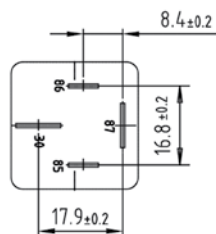
1 2 3 4 5
86 85 30 87a 87

High Performance Relays 24V

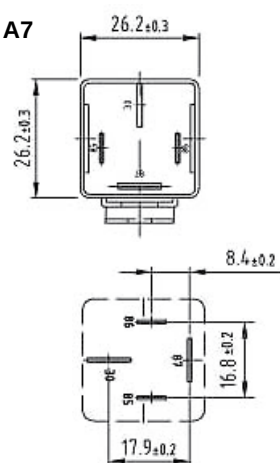


Terminal Configurations

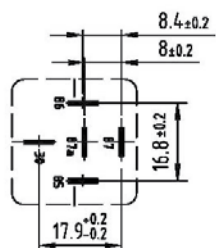
A4



A7

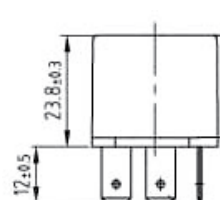


A8

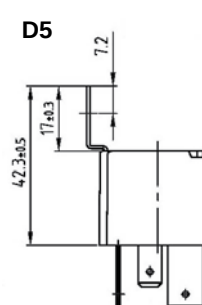


Dimensions

D3

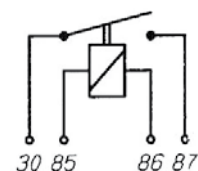


D5

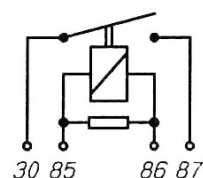


Circuit Diagrams

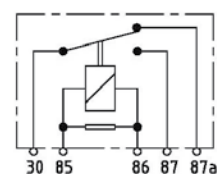
S1



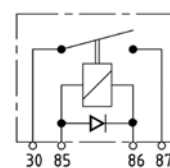
S2



S5



S6



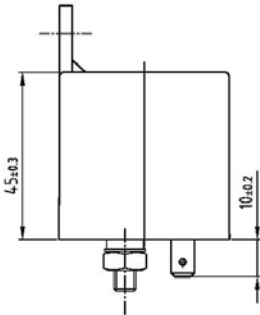
Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Terminal config.	Circuit diagram	Dimension	Bracket	Component Diode / Resistor
13 003 499	Schließer/N.O	24	50	A4	S1	D5	■	-
13 401 130	Wechsler/C.O.	24	20/30	A8	S5	D3	■	Widerst./Resis.
22 400 117A	Schließer/N.O	24	30	A7	S1	D5	■	-
22 400 118	Schließer/N.O.	24	30	A7	S2	D5	■	Widerst./Resis.
22 400 119	Schließer/N.O.	24	40	A7	S6	D5	■	Diode
22 400 700A	Schließer/N.O.	24	40	A7	S2	D5	■	Widerst./Resis.

N.O. = Normally Open Contact Relay
C.O. = Change Over Contract Relay

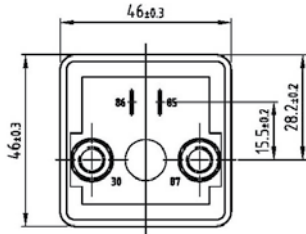
1 2 3 4 5
86 85 30 87a 87

Heavy Duty Relays

Dimensions

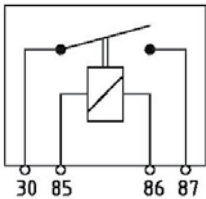


Terminal Configurations

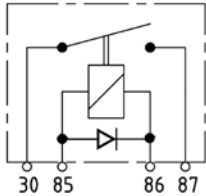


Circuit Diagrams

S1



S2



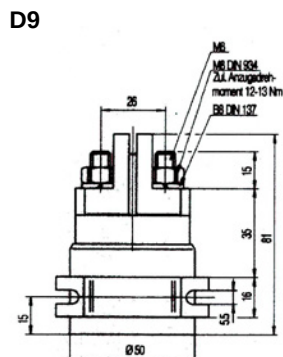
Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Circuit diagram	Component Diode / Resistor
13 250 200	Schließer / N.O.	12	200	S1	-
13 250 203	Schließer / N.O.	12	200	S2	Diode
13 450 100	Schließer / N.O.	24	100	S1	-

N.O. = Normally Open Contact Relay
C.O. = Change Over Contract Relay

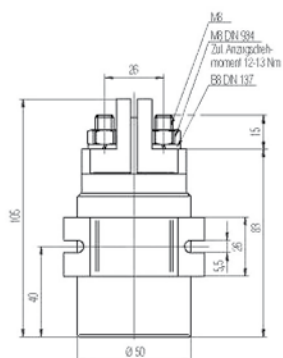
High Performance Relays XXL



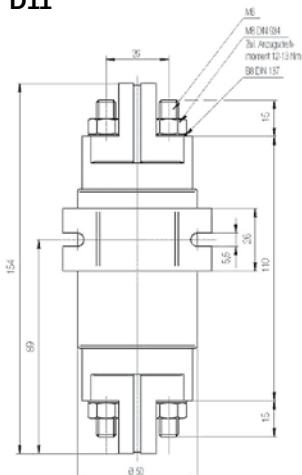
Dimensions



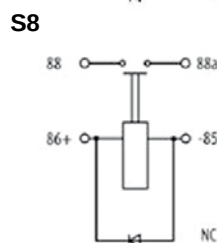
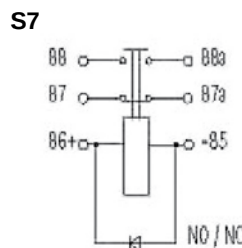
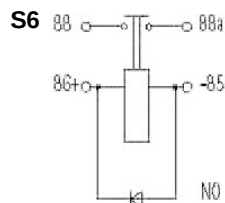
D10



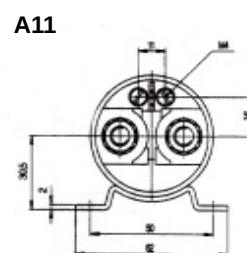
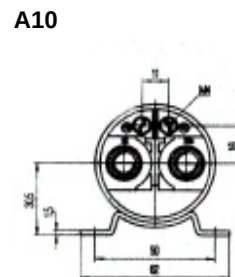
D11



Circuit Diagrams



Terminal Configurations



Special customized versions upon request

Applications

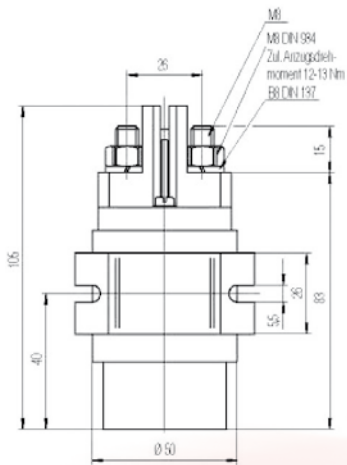
- Battery switches
- Military engineering
- Forestry machines
- Construction equipment
- Floor conveyers
- industrial Trucks
- Airport vehicles

Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Terminal config.	Circuit diagram	Dimension	Bracket	Component Diode / Resistor
13 290 080	Schließer/N.O	12	80	A10	S6	D9	■	-
13 290 100	Schließer/N.O	12	100	A10	S6	D10	■	-
13 290 200	Schließer/N.O	12	200	A10	S6	D10	■	-
13 290 300	Schließer/N.O	12	300	A10	S6	D10	■	-
13 291 100	Wechsler/C.O.	12	100	A11	S7	D11	■	-
13 291 200	Wechsler/C.O.	12	200	A11	S7	D11	■	-
13 490 080	Schließer/N.O	24	80	A10	S6	D10	■	-
13 490 100	Schließer/N.O	24	100	A10	S6	D10	■	-
13 490 200	Schließer/N.O	24	200	A10	S6	D10	■	-
13 490 300	Schließer/N.O	24	300	A10	S6	D10	■	-
13 491 100	Wechsler/C.O.	24	100	A11	S7	D11	■	-
13 491 200	Wechsler/C.O.	24	200	A11	S7	D11	■	-
13 493 100	Öffner/N.C.	24	100	A10	S8	D10	■	-
13 494 200	Schließer/N.O	24	200	A10	S6	D10	■	2-spulig

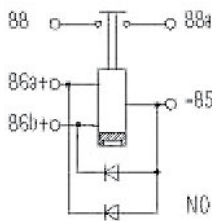
N.O. = Normally Open Contact Relay	1	2	3	4	5
C.O. = Change Over Contract Relay	86	85	30	87a	87

High Performance Relays XXL - Bistable

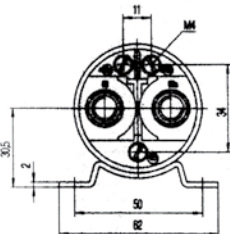
Dimensions



Circuit Diagram



Terminal Configuration



Additional models upon request

Item No.	Contact type	Nominal voltage Volt (V)	Nominal current Ampere (A)	Bracket	Component Diode / Resistor
13 292 100	Schließer/N.O.	12	100	X	Diode
13 292 200	Schließer/N.O.	12	200	X	Diode
13 292 300	Schließer/N.O.	12	300	X	Diode
13 492 100	Schließer/N.O.	24	100	X	Diode
13 492 200	Schließer/N.O.	24	200	X	Diode
13 492 300	Schließer/N.O.	24	300	X	Diode

N.O. = Normally Open Contact Relay
C.O. = Change Over Contract Relay

1 2 3 4 5
86 85 30 87a 87



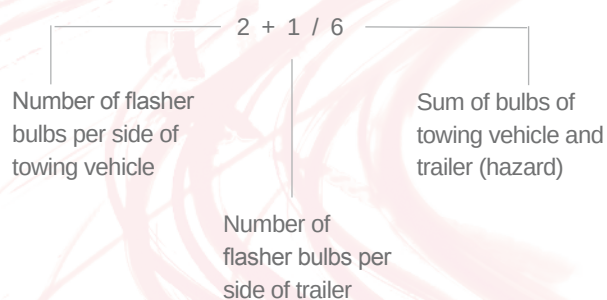
Flasher Units

Flasher Units with bulb analysis:

Failure of a flasher bulb can be indicated by

- a) increase of flashing frequency
- b) control light

Sample for loads:



If a passenger car is subsequently converted to trailer operation, the flashing system has to be enlarged accordingly.

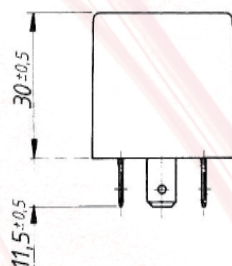
Pulse Generator:

Does not analyse and evaluate the lamp load and can be operated up to 170 watt (8 bulbs). However, their use is prohibited on private cars and commercial vehicles in many countries (usage for construction vehicles, signal lights, tailboards, cargo boom etc.).

Dimensions

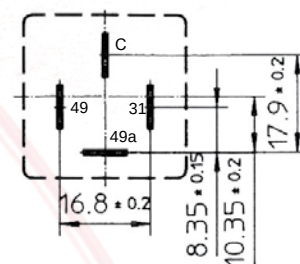


G1



Terminal Configurations

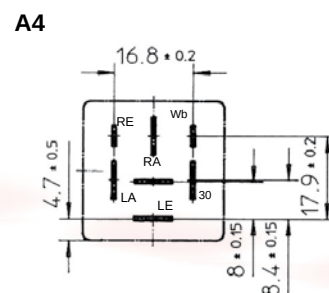
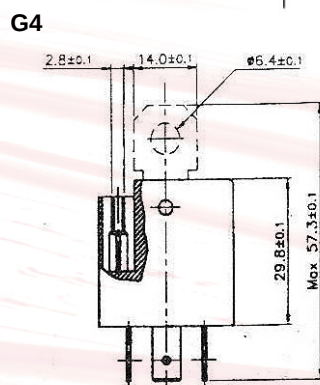
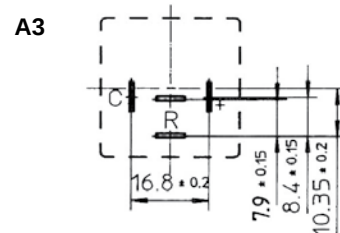
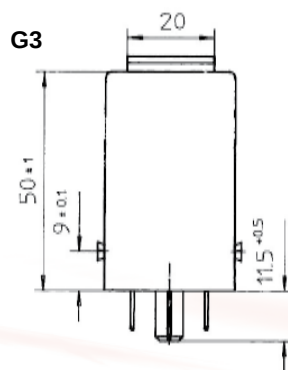
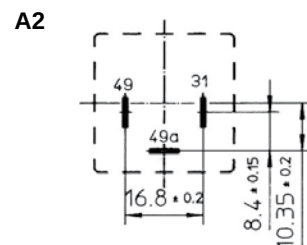
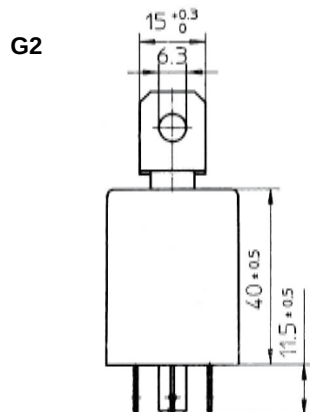
A1



Flasher Units for Passenger Cars without/with Trailer

Dimensions

Terminal Configurations



Item No.	Nominal voltage Volt (V)	Load	Terminal configuration	Housing	Remarks
54 201 101	12	2/4 x 21 Watt	A2	G2	Lasche/Bracket
54 201 102	12	2/4 x 21 Watt	A1	G2	Lasche/Bracket
54 201 136	12	2/4 x 21 Watt	A3	G2	Lasche/Bracket, SAE
54 225 003	12	2/4 x 21 Watt	A4	G3	-
54 237 001	12	2/4 x 21 Watt	A2	G1	30 mm Höhe/height
54 237 012	12	2/4 x 21 Watt	A2	G1	30 mm Höhe/height
13 201 103	12	2+1/6 x 21 Watt	A1	G4	mit Anhängerbetrieb/with Trailer

Special Items and Multi Purpose Flasher Units

Terminal Configurations

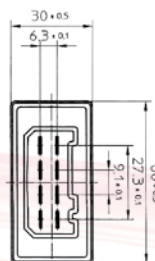
Housings



58 207 001

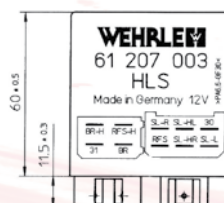
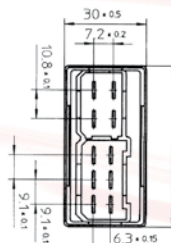
Trailer Flash Control 12V

In case of failure of a flasher lamp (with or without trailer) the flasher blinks with a higher frequency.



61 207 003

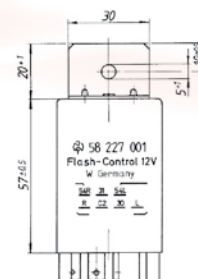
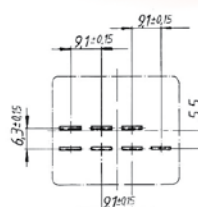
Trailer Lamp Control 12V



58 227 001

Flash Control 12V
2 x 21 Watt

The control device disconnects the flashlights of a trailer from the car's electrical system. It controls the trailer flash lights. The electrical circuit of the car will be burdened only by control currents. The original flasher remains in the car.



Special Items and Multi Purpose Flasher Units

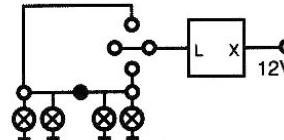
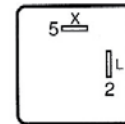


13 010 201

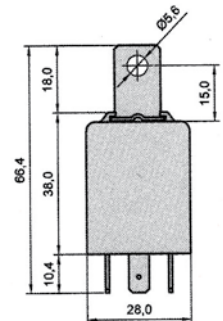
Electronic Flasher Unit 12V

This flasher unit is without polarity and has two pins. It can be used as an immediate solution for flasher failure in all cars.

Terminal Configurations



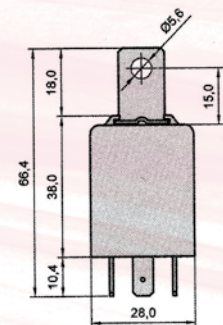
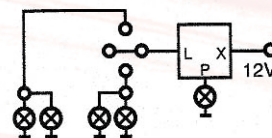
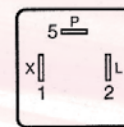
Housings



13 010 301

Electronic Flasher unit 12V

This flasher unit is without polarity and has three pins. It can be used as an immediate solution for flasher failure in all cars.

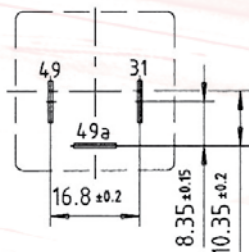


Electronic Pulse Generators



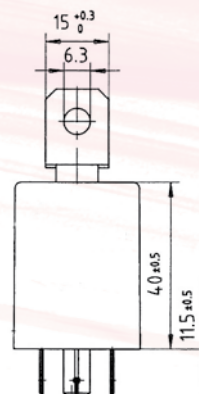
Terminal Configurations

A1

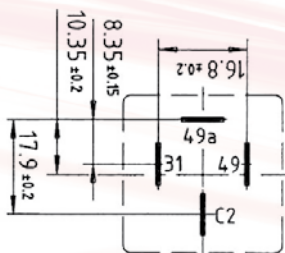


Housings

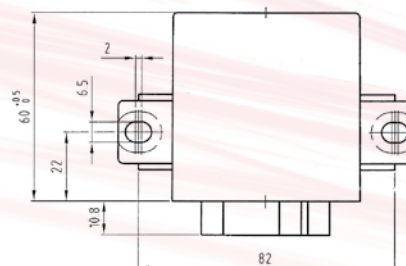
G1



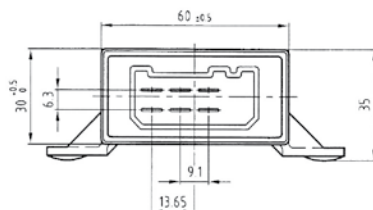
A2



G2



A3



Item No.	Nominal voltage Volt (V)	Load	Terminal configuration	Housing	Remarks
53 007 006A	12 + 24	170 Watt max.	A3	G2	Bracket
53 201 101	12	170 Watt max.	A1	G1	Bracket
53 201 102	12	170 Watt max.	A2	G1	Bracket
53 401 101	24	170 Watt max.	A1	G1	Bracket
53 401 102	24	170 Watt max.	A2	G1	Bracket

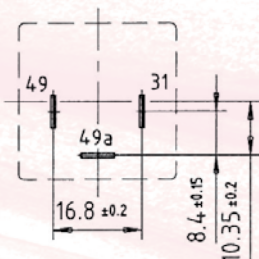
Flasher Units for Trucks and Tractors without Trailer

Terminal Configurations

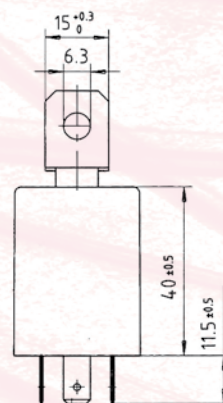
Housings



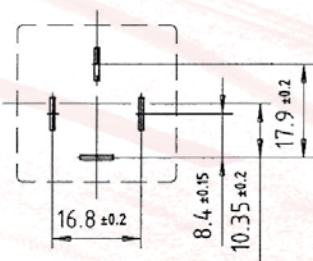
A1



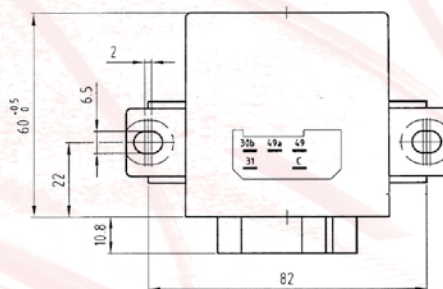
G1



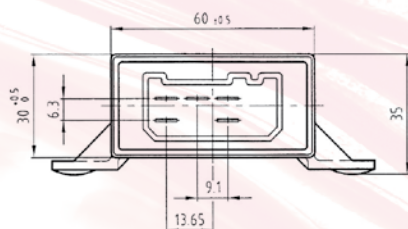
A2



G2



A3



Item No.	Nominal voltage Volt (V)	Load	Terminal config.	Housing	Remarks
54 401 101	24	2/4 x 21 Watt	A1	G1	Lasche/Bracket
54 401 102	24	2/4 x 21 Watt	A2	G1	Lasche/Bracket
54 407 009	24	4/8 x 21 Watt	A3	G2	-

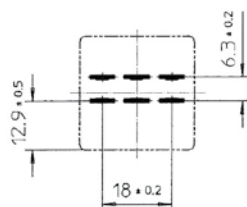
Flasher Units for Trucks and Tractors with Trailer

Terminal Configurations

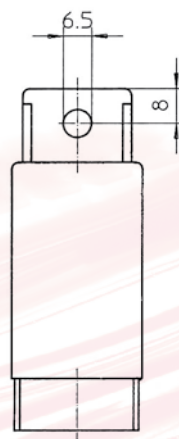
Housings



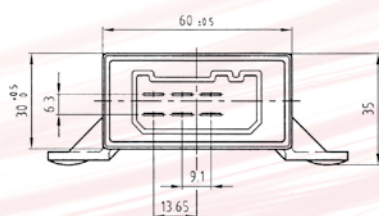
A1



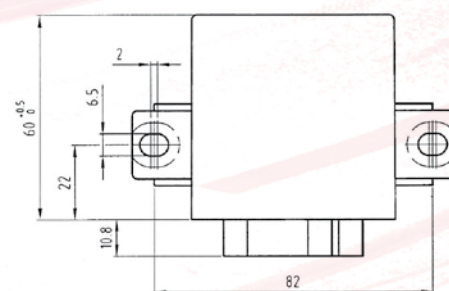
G1



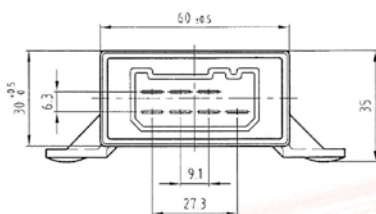
A2



G2



A3



Item No.	Nominal voltage Volt (V)	Load	Terminal configuration	Housing	Remarks
54 229 002A	12	2+1+1/8 x 21 Watt	A1	G1	vergossen / sealed
54 407 006	24	2 + 1/6 x 21 Watt	A2	G2	-
54 407 008	24	3 + 1/8 x 21 Watt	A2	G2	-
54 407 010A	24	2+1+1/8 x 21 Watt	A3	G2	LED Vorbereitung LED prepared

LED Flasher Units

Our LED flasher unit is the intelligent solution to the problem of “Lamp Failure Warning” with LED direction indicator in a circuit made by LED and conventional bulb lamps.

For legal requirements, the flashing speed of the direction indicator must increase when an LED light or a bulb fails in the indicator circuit.

It is an universal solution as it solves “Lamp Failure Warning” troubles with every LED cluster between 1W and 8W.

Combined with our LED Flasher unit, it allows a reliable detection of LED cluster failure and prevents irregular or spurious signals on the dashboard warning light.

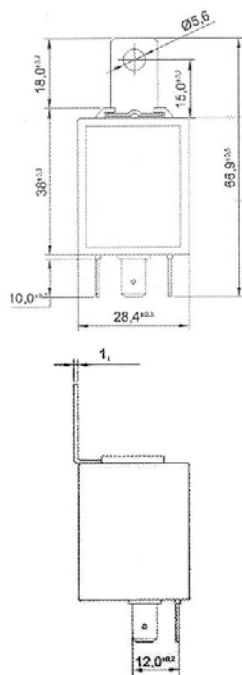
Our LED unit does not produce heat and can be fitted anywhere.



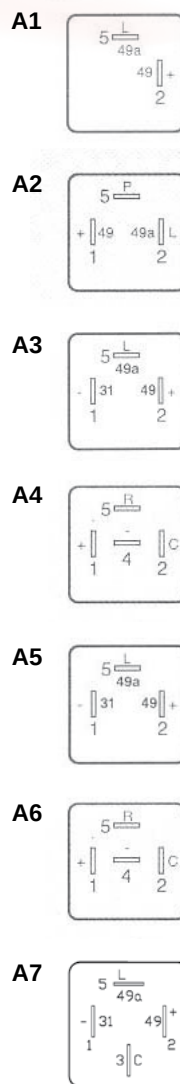
LED Flasher Units



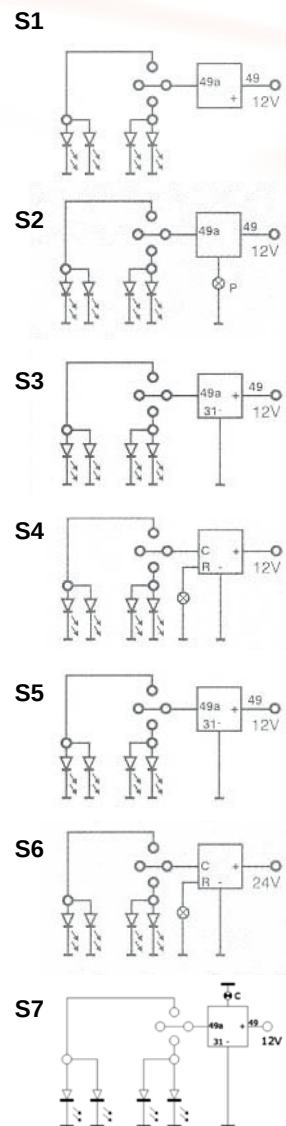
Dimensions



Terminal Configurations



Circuit Diagrams

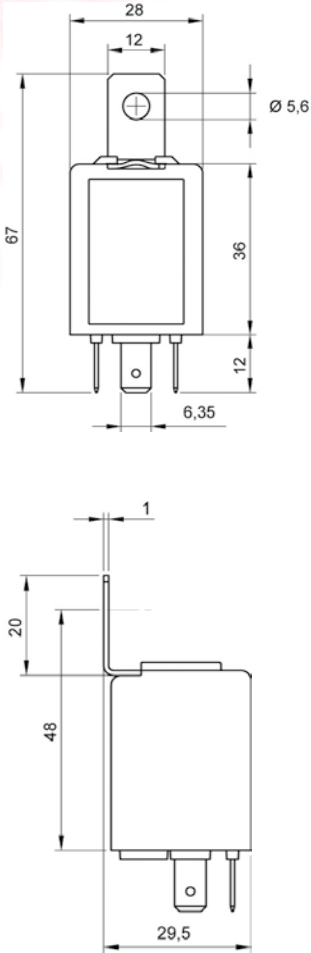


Item No.	No. of pins	Watt	Volt	Circuit diagram	Terminal config.	failure detection
13 100 102	2	0-30W	12	S1	A1	-
13 100 103	3	0-30W	12	S2	A2	-
13 200 103	3	0-30W	12	S3	A3	-
13 200 104	4	0-30W	12	S4	A4	-
13 200 105	4	0,1-10W	12	S7	A7	■*
13 200 203	3	0-40W	24	S5	A5	-
13 200 204	4	0-40W	24	S6	A6	-

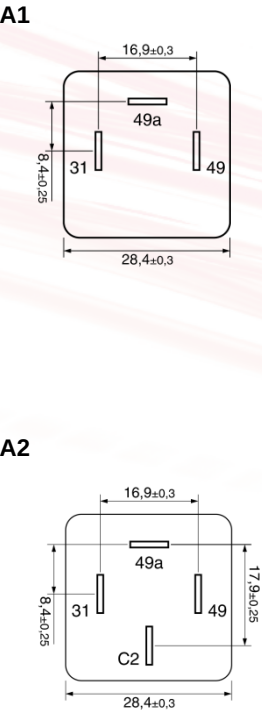
* Failure detection must be programmed for the LED cluster used in a specific circuit

LED Flasher Units

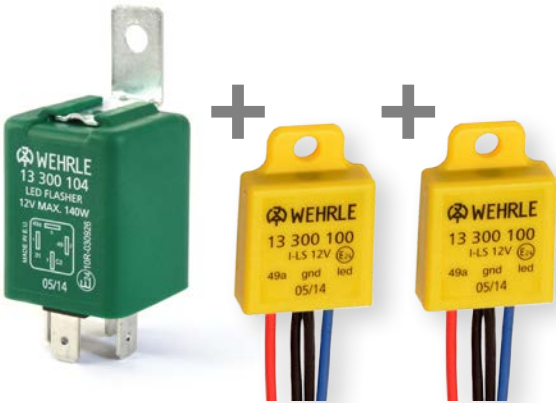
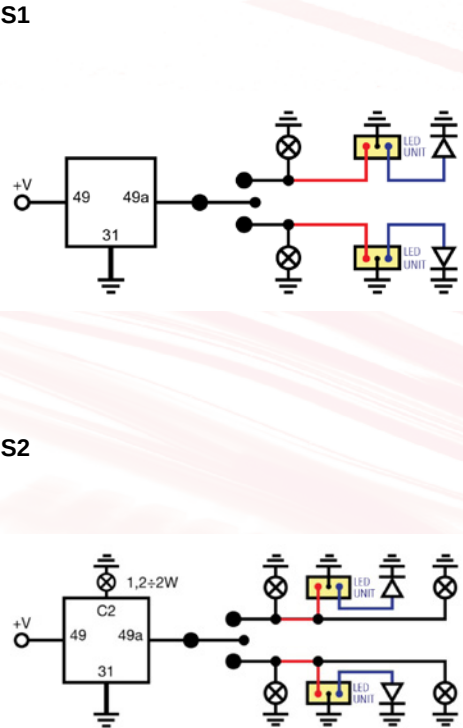
Dimension



Terminal Configurations



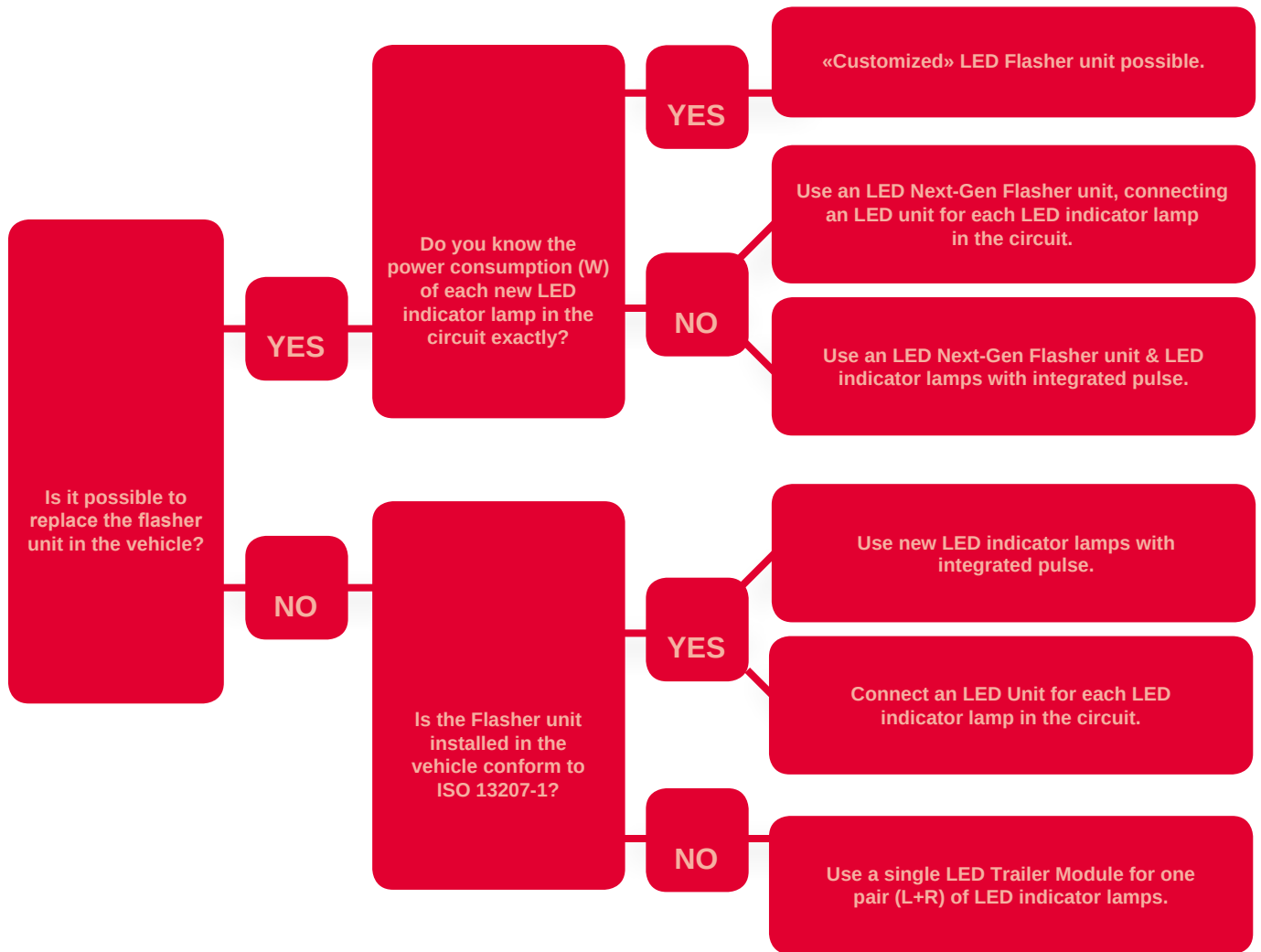
Circuit Diagrams



BASIC KIT
1 Flasher unit + 2 LED units

Item No.	No. of pins	Watt	Volt	Circuit diagram	Terminal config.
13 300 103	3	max 90 Watt	12	S1	A1
13 300 203	3	max 90 Watt	24	S1	A1
13 300 104	4	max 140 Watt	12	S2	A2
13 300 204	4	max 140 Watt	24	S2	A2
13 300 100 (LED Unit)			12		
13 300 200 (LED Unit)			24		

LED Light Link

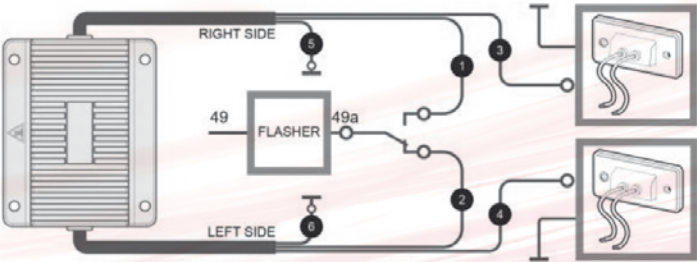


Regulation ECE R48 for failure warning in direction indicator circuit is mandatory, any resistors in LED indicator lamps are illegal.

Failure detection conventional flasher unit: The conventional flasher unit checks constantly the power draw for whole direction indicator circuit and detects a failure when the power drops below a defined threshold, LED indicators may create irregular flashing frequency and false failure signals.

ISO 13207-1 standardises the non-failure pulse generated by new LED indicator lamps. A current pulse for the direction indicator input at a defined point in time is produced. With each direction indicator pulse, the upstream flasher relay in the vehicle electric system requests the pulse after 100 ms – for at least 20 ms. If components or LEDs of the direction indicator function are defective, this is detected by the electronics: No pulse is sent. Therefore, the driver is definitely informed of the indicator failure.

LED Light Link



Item No.	Volt	Dimension	Techn. Spec.
58 207 010	12V	102x82x27mm	Connection Cables 1,5m, IP67, according to ISO 13207-1 Standard, Failure detection according to ECE R48, Reverse polarity protection, Short circuit protection
58 407 010	24V	102x82x27mm	Connection Cables 1,5m, IP67, according to ISO 13207-1 Standard, Failure detection according to ECE R48, Reverse polarity protection, Short circuit protection

Preheating Relays and control units



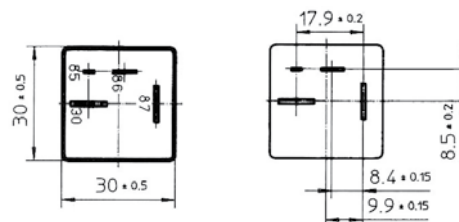
The engine can be started when a warning light gives the signal that the correct engine temperature has been reached. For the applied glow or flame plugs WEHRLE manufactures the appropriate control devices. The duration of the preheating period depends on the engine's temperature. The start readiness of the engine is signalled by a preglow lamp. Versions with post-heating to reduce the cold start emissions and immediate start devices are available.

Preheating Relays and control units

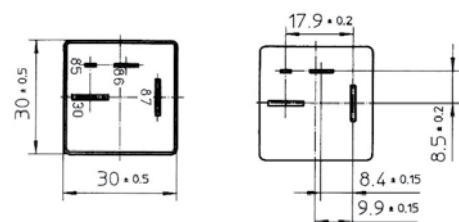
Terminal Configurations



50 237 009
Preheating Relay 12V

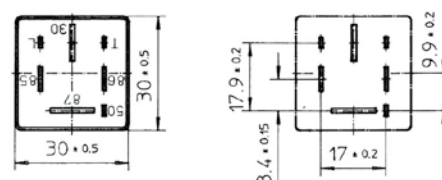


50 237 010
Preheating Relay 12V



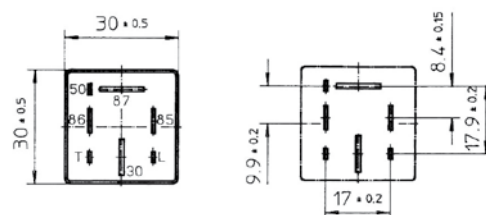
51 233 001
Preheating Relay 12V

For Vehicles with
short postheating period.



51 233 011
Preheating Relay 12V

For Vehicles with
short postheating period.

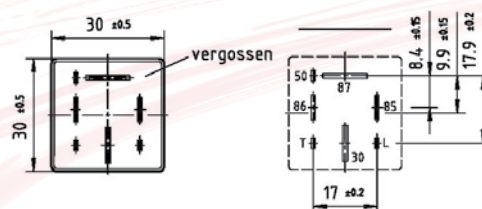


Preheating Relays and control units

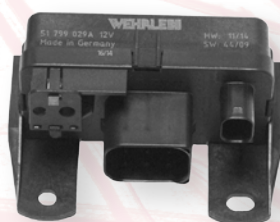
Terminal Configurations



51 233 008A
Automatic-Preheating Relay 12V

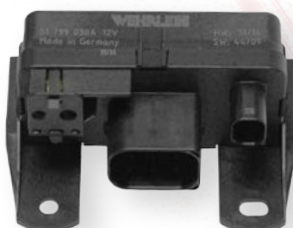
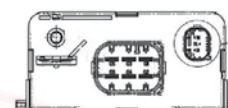
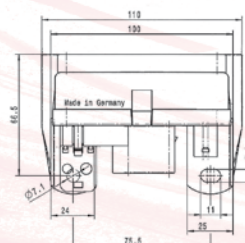


51 216 003A
Automatic-Preheating Relay 12V



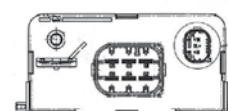
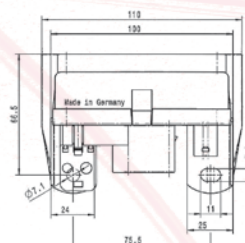
51 799 029A
Glow Plug Control Unit 12V

Suitable for: Mercedes 5- and 6-cylinder diesel engines 1996-2009



51 799 030A
Glow Plug Control Unit 12V

Suitable for: Mercedes 4-cylinder diesel engines 1995-2014



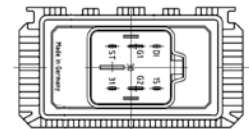
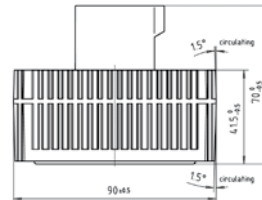
Preheating Relays and control units

Terminal Configurations

51 799 014

Glow Plug Control Unit 12V

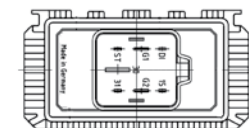
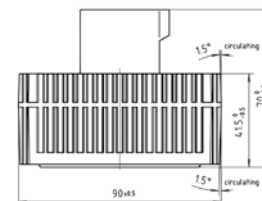
Suitable for:
Opel 4-cylinder diesel engines 1999-2014



51 799 018

Automatic-Preheating Relay 12V

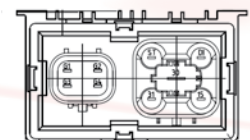
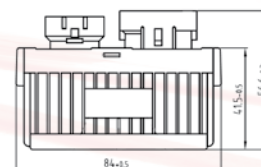
Suitable for:
Opel 4-cylinder diesel engines 1996-2014



51 799 044

Glow Plug Control Unit 12V

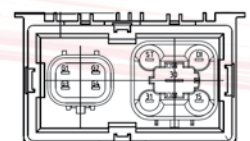
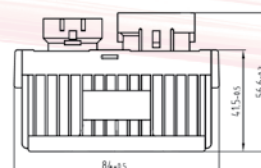
Suitable for:
Opel 4-cylinder 1.3l diesel engines 2006-2014



51 799 045

Glow Plug Control Unit 12V

Suitable for:
Opel 4-cylinder 1.7l diesel engines 2009-2014



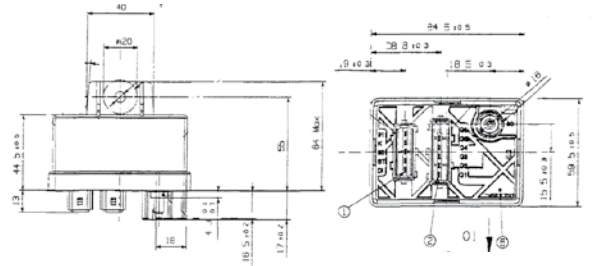
Terminal Configurations



51 299 012D

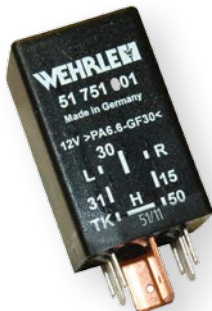
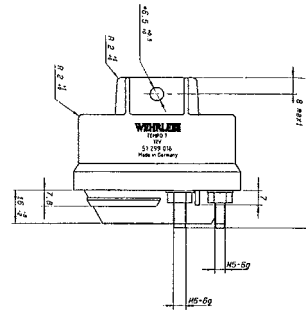
Glow Plug Control Unit 12V

Suitable for:
Fiat, Alfa Romeo and Lancia diesel engines



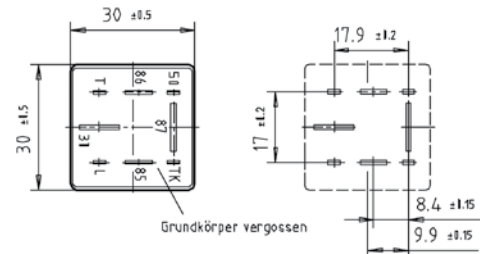
51 299 016

Glow Control Unit 12V - Tempo 7



51 751 001

Glow Control Unit 12V



51 951 001

Glow Control Unit 24V



51 252 002

Glow Plug Control Unit 12V

Suitable for: Peugeot/
Citroen/Volvo



51 799 056B

Glow Plug Control Unit 12V

Suitable for:
Mercedes

Preheating Relays and control units



51 799 070D

Glow Plug Control Unit 12V

Suitable for:
Mercedes



51 799 026

Glow Plug Control Unit 12V

Suitable for: VW/ Audi/
Seat/Skoda



51 799 060

Glow Plug Control Unit 12V

Suitable for: VW/Audi/
Seat/Skoda



51 799 080A

Glow Plug Control Unit 12V

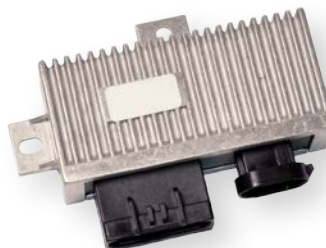
Suitable for: Peugeot/
Citroen/Volvo



51 799 043

Glow Plug Control Unit 12V

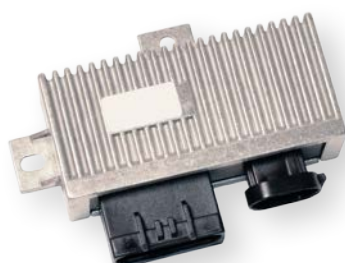
Suitable for: Peugeot/
Citroen/Fiat



51 699 001

Glow Plug Control Unit 12V

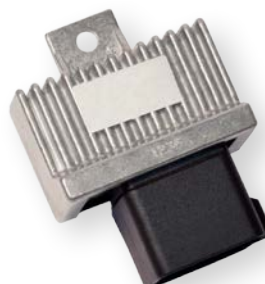
Suitable for:
Opel/Renault



51 699 002

Glow Plug Control Unit 12V

Suitable for:
Opel/Renault



51 699 003

Glow Plug Control Unit 12V

Suitable for: Opel/
Renault/Nissan

Preheating Relays and control units



51 699 004

Glow Plug Control Unit 12V

Suitable for: Peugeot/
Citroen/Fiat



51 699 005

Glow Plug Control Unit 12V

Suitable for:
Renault



51 699 006

Glow Plug Control Unit 12V

Suitable for:
Opel/Renault



51 699 007

Glow Plug Control Unit 12V

Suitable for: Peugeot/
Citroen/Fiat



51 699 008

Glow Plug Control Unit 12V

Suitable for: Peugeot/
Citroen/Fiat

Timing Relays

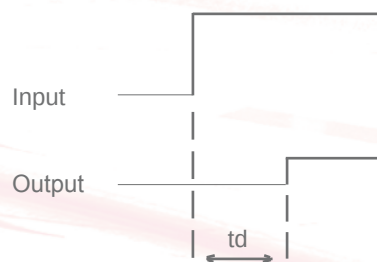


Timing Relays

For many technical applications it is necessary to switch time-delayed loads on and off.

Two groups result:

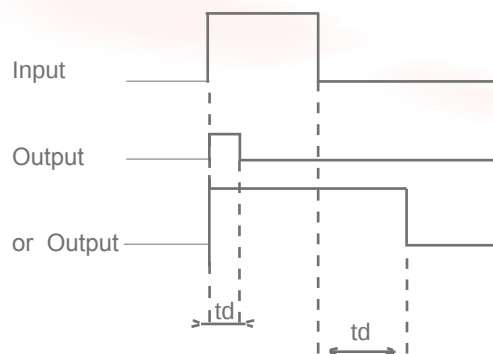
Delay-on-Relays



Application:

- Compressor air conditioning
- Bus doors
- Time-delayed motors

Delay-off-Relays



Application:

- Radiator fan
- Rear view mirror heating
- Headlight cleaning
- Timer

The exit that triggers the load is activated by an entry signal.

The entry can be a switch or a button with plus or minus or a distribution voltage itself.

The exit can be either a relay (closing contact or change-over switch) or a power semi-conductor.

12 + 24 volt usage is possible.

Multitimer



The Multitimer combines several time-relays functions: on-delay, off-delay, and impulsfunction. The functions and time periods can be individually adjusted by means of a rotary switch and a potentiometer. The output goes by way of a change-over contact, 10A, which is connected to terminal 30.

This Multitimer allows the reduction of the number of versions needed on stock.

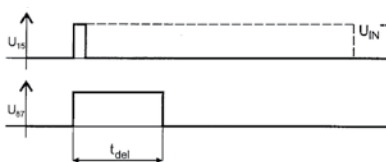
The Multitimer is pin-compatible to standard sockets.

Time- / Function Chart:

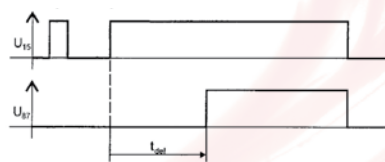
0 no function	5 5 ... 60 s Delay on
1 0,5 ... 10 s Impulsr.	6 0,5 ... 20 min Delay on
2 560 s Impulsr.	7 0,5 ... 10 s Delay off
3 0,5 ... 20 min Impulsr.	8 5 60 s Delay off
4 0,5 ... 10 s Delay on	9 0,5 ... 20 min Delay off

This timer can also be used as a switching relay. As a result, stockkeeping relays for special applications becomes unnecessary.

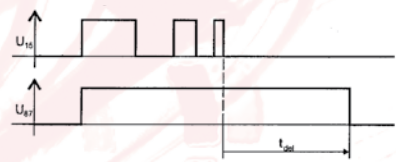
Impulse



Delay on

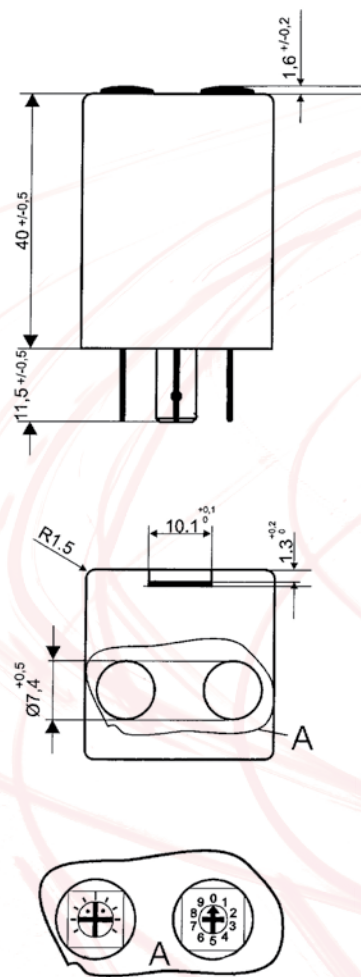


Delay off

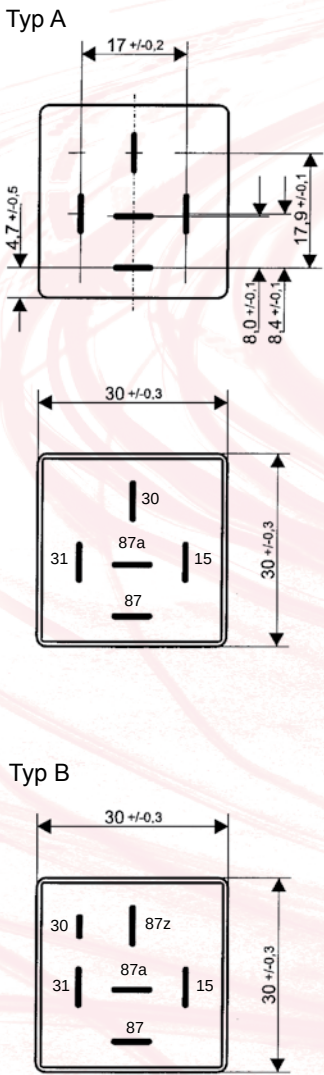


Multitimer

Dimensions



Terminal Configurations



Circuit Diagrams



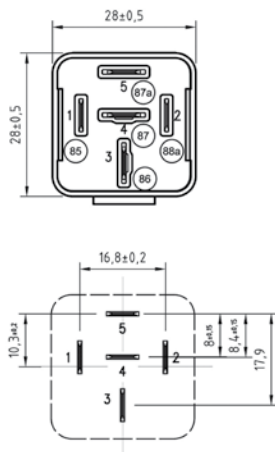
Item No.	Nominal voltage Volt (V)	Delay type	Type
13 200 000	12	delay on and off	A
13 200 001	12	delay on and off	B
13 400 000	24	delay on and off	A
13 400 001	24	delay on and off	B

Time Delay Relays

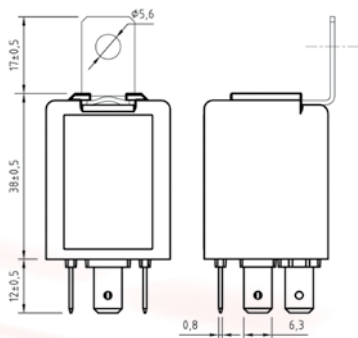


Terminal Configurations

A1

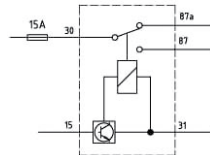


Dimensions

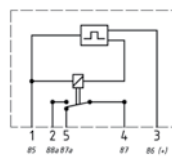


Circuit Diagrams

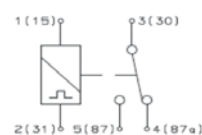
S1



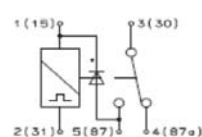
S2



S3

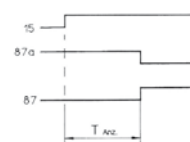


S4

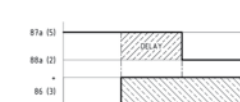


Function Diagrams

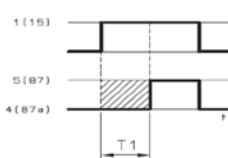
F1



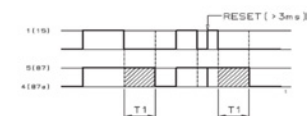
F2



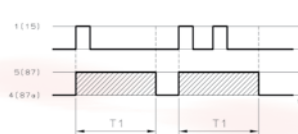
F3



F4

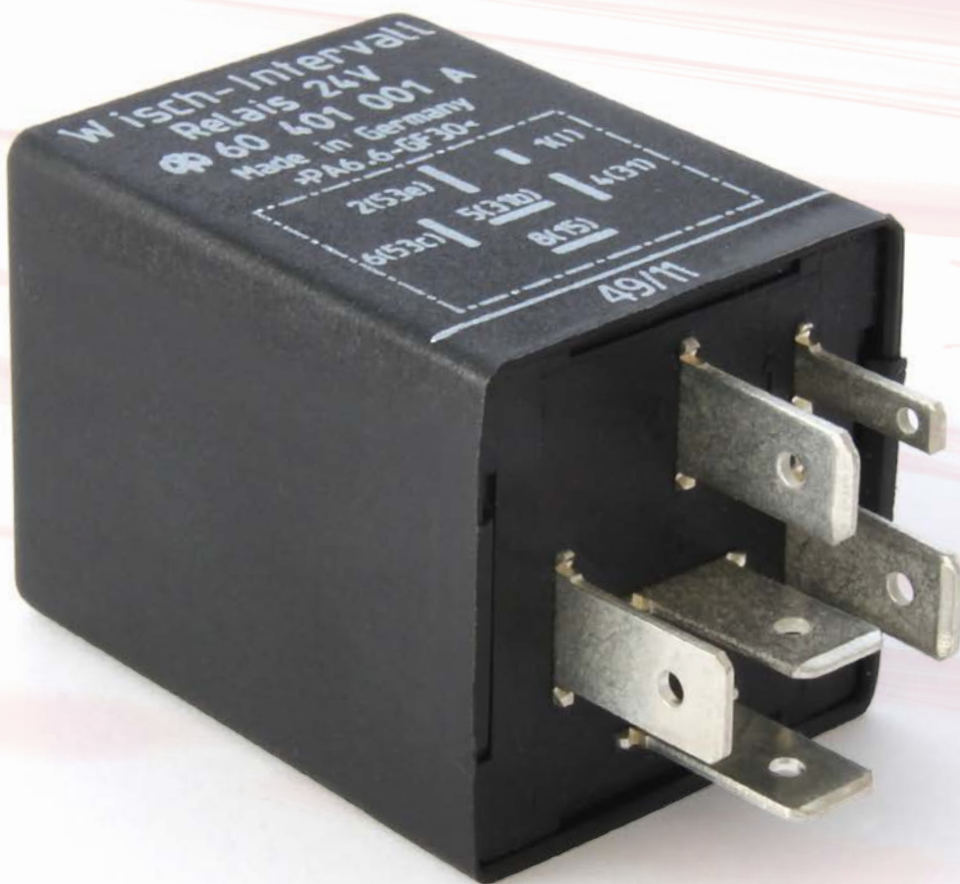


F5



On request all times programmable

Item No.	Nominal voltage Volt (V)	Delay type	Delay time	Circuit diagram	Terminal configuration	Function diagram
52 201 005	12	anzugsverzögert / delay on	5 sec.	S3	A1	F3
52 201 135	12	abfallverzögert / delay off	3,5 sec.	S3	A1	F1
52 201 015	12	anzugsverzögert / delay on	15 sec.	S3	A1	F3
52 202 003	12	abfallverzögert / delay off	3 sec.	S4	A1	F4
52 221 900	12	abfallverzögert / delay off	15 min.	S4	A1	F5
52 221 600	12	abfallverzögert / delay off	10 min.	S4	A1	F5
52 212 060	12	abfallverzögert / delay off	60 min.	S4	A1	F4
52 404 001A	24	anzugsverzögert / delay on	0,5 sec.	S2	A1	F2
52 404 003A	24	anzugsverzögert / delay on	3 sec.	S2	A1	F2
52 401 004A	24	anzugsverzögert / delay on	4 sec.	S1	A1	F1
52 401 005A	24	anzugsverzögert / delay on	15 sec.	S1	A1	F1
52 404 004A	24	anzugsverzögert / delay on	30 sec.	S2	A1	F2
52 401 007A	24	anzugsverzögert / delay on	60 sec.	S1	A1	F1
51 404 011	24	abfallverzögert / delay off	10 sec.	S1	A1	F1
52 401 003	24	anzugsverzögert / delay on	3 sec.	S3	A1	F3
52 402 003	24	abfallverzögert / delay off	3 sec.	S4	A1	F4
52 402 010	24	abfallverzögert / delay off	10 sec.	S4	A1	F4
52 402 030	24	abfallverzögert / delay off	30 sec.	S4	A1	F4
52 402 060	24	abfallverzögert / delay off	60 sec.	S4	A1	F4
52 412 005	24	abfallverzögert / delay off	5 min.	S4	A1	F4



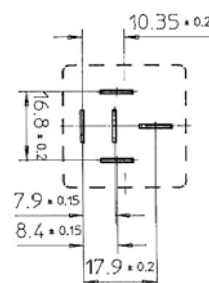
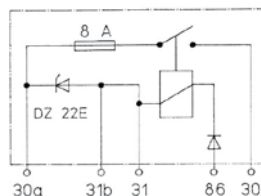
Electronic Timing Relays and Control Devices

Circuit Diagrams

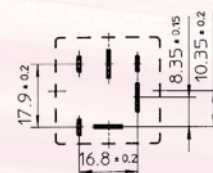
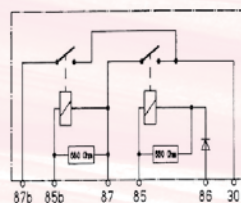
Terminal Configurations



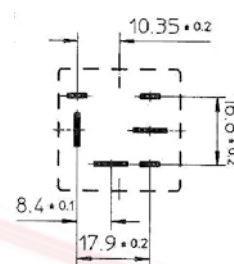
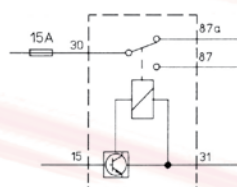
50 201 004B
ABS Relay 12V



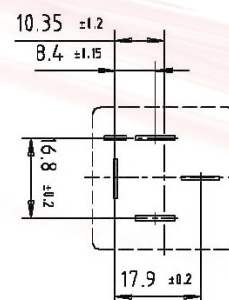
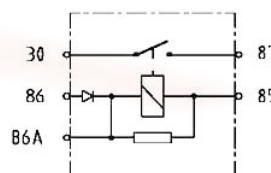
50 205 603
Fuel Pump Relay
12V with Clip and Bracket



50 205 002
Fuel Pump Relay 12V



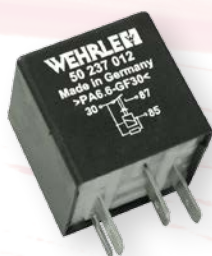
50 237 013
Running Light Relay 12V



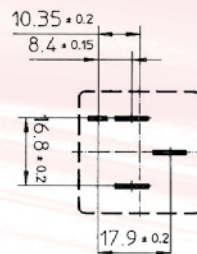
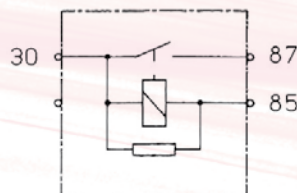
Electronic Timing Relays and Control Devices

Circuit Diagrams

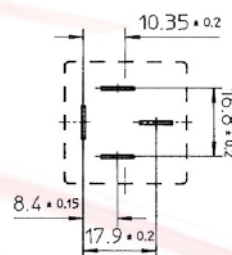
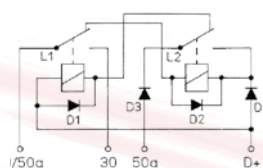
Terminal Configurations



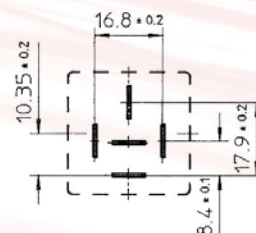
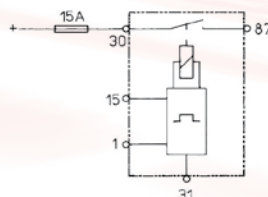
50 237 012
Relay for VR6 Motronic 12V



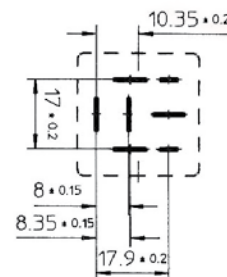
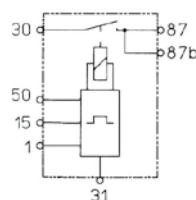
50 405 001
Start Repeat Locking 24V



51 204 003
Fuel Pump Relay 12V



51 223 909
Fuel Pump Relay 12V



51 223 093
Fuel Pump Control Unit 12V

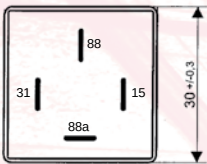
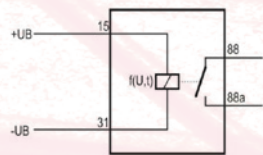
Electronic Timing Relays and Control Devices

Circuit Diagrams

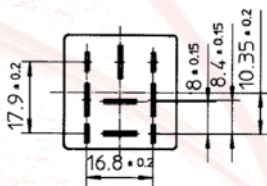
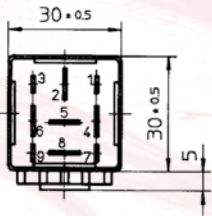
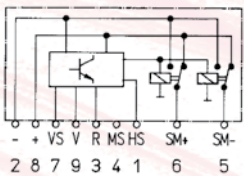
Terminal Configurations



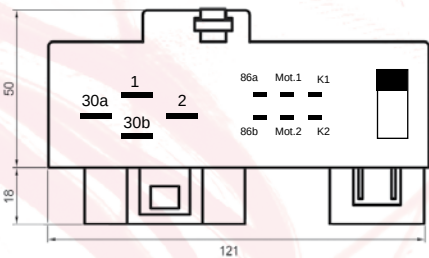
68 401 001
Voltage Monitor 24V, 40A



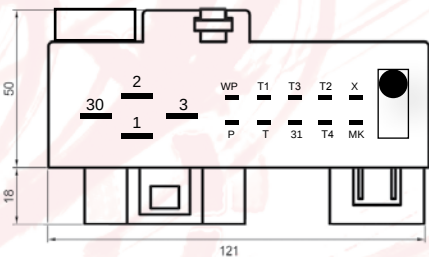
58 209 003
Motor Control 12V



69 200 107
Cooling Fan Control Relay 12V



69 200 101
Cooling Fan Control Relay 12V



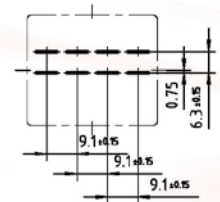
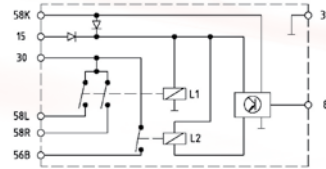
Electronic Timing Relays and Control Devices

Circuit Diagrams

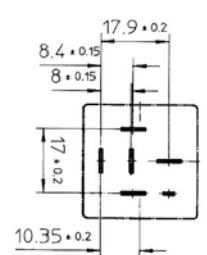
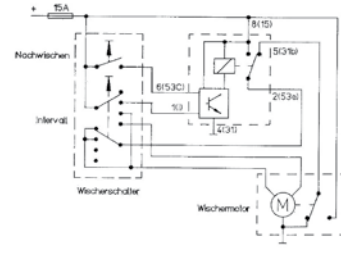
Terminal Configurations



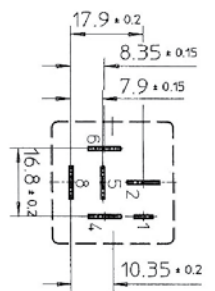
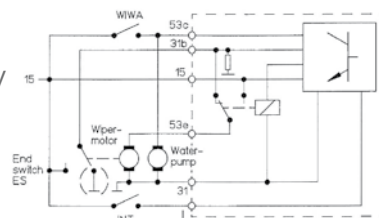
58 226 608
Day time Light Relay 12V



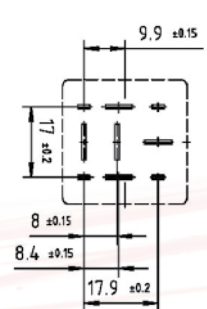
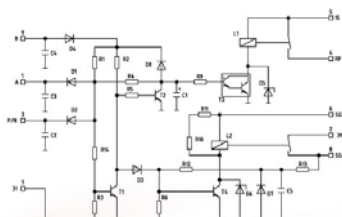
60 201 002
Wiper-Washer-Intervallrelay 12V



60 401 001A
Wiper-Washer-Intervallrelay 24V



61 233 004
Logic Relay 12V



Additional models upon request

Electronic Timing Relays and Control Devices

Circuit Diagrams

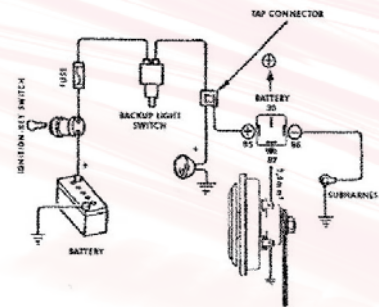
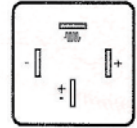
Terminal Configurations

13 204 201

Back up Alarm Unit 12V



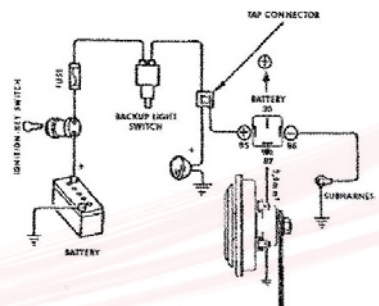
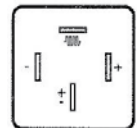
Acoustic warning signal during reverse driving. Works when back-up light is on. Customer can choose the acoustic source: buzzer, horn, claxon, disk horn. The metal bracket is enclosed in the packaging.



13 404 201

Back up Alarm Unit 24V

Acoustic warning signal during reverse driving. Works when back-up light is on. Customer can choose the acoustic source: buzzer, horn, claxon, disk horn. The metal bracket is enclosed in the packaging.



Additional models upon request

Electronic Timing Relays and Control Devices

Circuit Diagrams

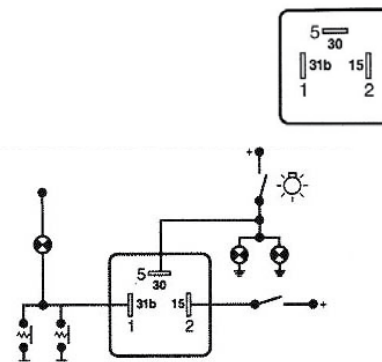
Terminal Configurations



13 620 301

Lights Warning Unit 12V

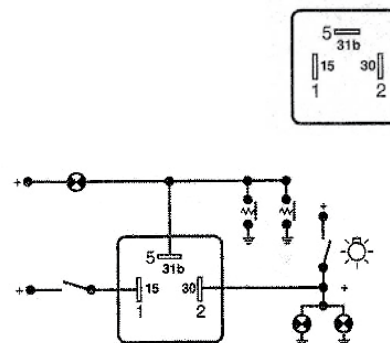
An acoustic warning signal is given off if doors are opened while lights are still on. The signal is louder than usual: >85dB - 30 cm. Can be used for all brands. The metal bracket is enclosed in the packaging.



13 620 302

Lights Warning Unit 12V

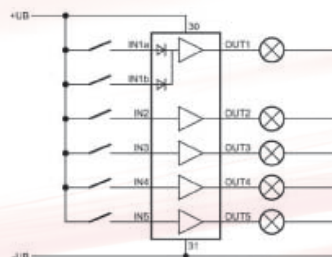
An acoustic warning signal is given off if doors are opened while lights are still on. The signal is louder than usual: >85dB - 30 cm. Can be used in all french cars. The metal bracket is enclosed in the packaging.



13 258 000

Trailer Control Modul

5 Kanal 5xpos. getriggert 14pol.



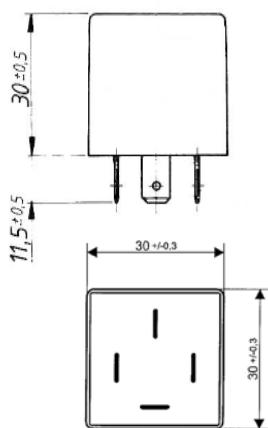
Additional models upon request

Diode

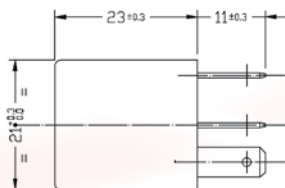


Dimensions

D1



D2



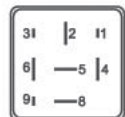
Terminal

Configurations

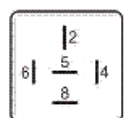
A1



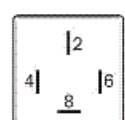
A2



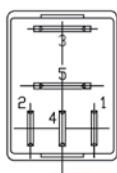
A3



A4



A5

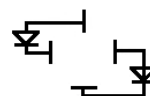


Circuit Diagrams

S1



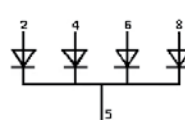
S2



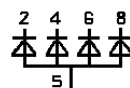
S3



S4



S5



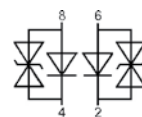
S6



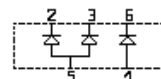
S7



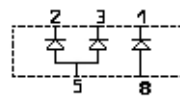
S8



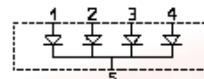
S9



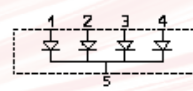
S10



S11



S12



Item No.	Description	Terminal config.	Circuit diagram	Dimension
13 254 052	einzeln 2 x 3A 1300V	A1	S1	D1
13 254 060	einzeln 2 x 3A 1300V	A1	S2	D1
13 254 062	einzeln 4 x 3A 1300V	A2	S3	D1
13 254 064	gem. Kathode Pin5 4 x 3A 1300V	A3	S4	D1
13 254 066	gem. Anode Pin5 4 x 3A 1300V	A3	S5	D1
13 254 070	gem. Kathode Pin8 4 x 3A 1300V	A3	S6	D1
13 254 072	gem. Anode Pin8 4 x 3A 1300V	A3	S7	D1
13 254 074	einzeln 2 x 15A 32V Schottky m. Suppressordiode	A4	S8	D1
13 254 610	3A - 1000V	A5	S9	D2
13 254 630	3A - 1000V	A5	S10	D2
13 254 660	3A - 1000V	A5	S11	D2
13 254 670	1A - 400V	A5	S12	D2

Voltage Regulators for Alternators

WEHRLE voltage regulators

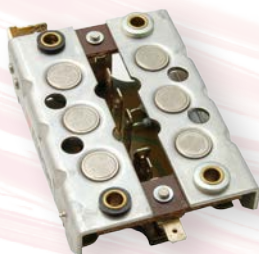
for alternators are produced according to the highest quality standards of the automotive industry and fulfill even the strictest criteria. According to type there are body mounted or integrated voltage regulators.

Integrated Voltage Regulators

Built into generator regulators in either IC or hybrid technology.

Body Mounted Voltage Regulators

Body mounted regulators built with either contact pairs or IC-Technology.



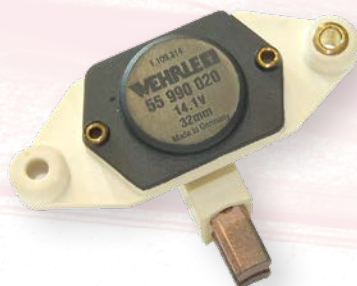
11 244 063

Rectifier-assembly BMW motorcycles



55 990 001

Voltage Regulator 14V



55 990 020

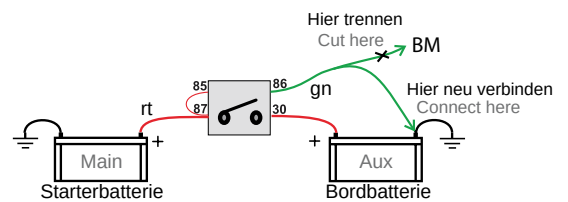
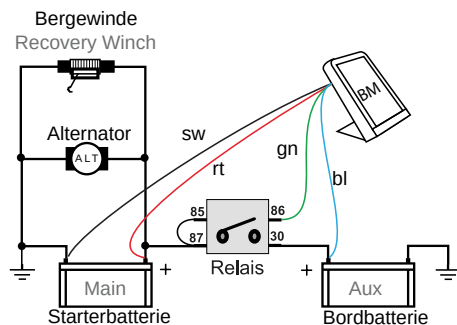
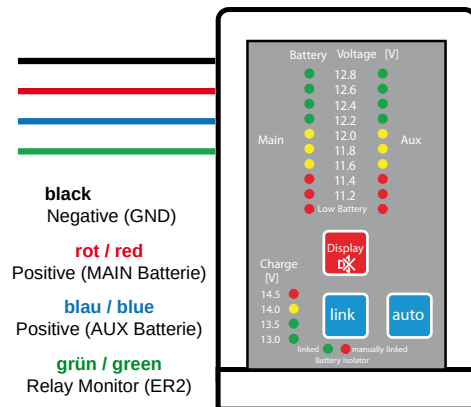
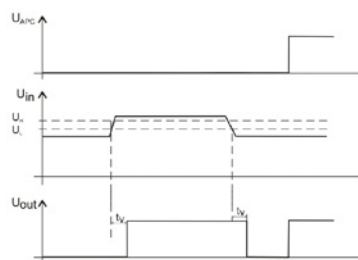
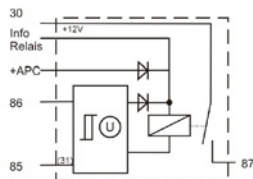
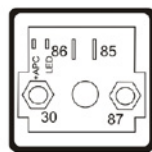
Voltage Regulator 14V, 32mm slip ring

DBMS Dual Battery Monitoring System

The fully automatic DBMS separates the starter battery from auxiliary battery if the car is stopped and link them while the car is running. All Systems are equipped with the IBS 200A power relay. systems (Link). This manual linking function (called load sharing) is very helpful for jump starting or when using high current appliances such as an electrical recovery winch, power inverter or compressor. All systems are available in 12V and 24V. D+ Signal is not required.

Applications

Offroad, Rallye, Travel, Police,
Emergency, Military, Mining



Item No.	Description	Nominal voltage Volt (V)
68 200 000	DBMS-D mit Display DBMS-D with Display	12
68 201 000	DBMS-R Doppelbatterie-Relais DBMS-R Dual-Battery-Relay	12
68 201 001	Batterietrennrelais Battery isolating relay	12
68 400 000	DBMS-D mit Display DBMS-D with Display	24
68 401 000	DBMS-R Doppelbatterie-Relais DBMS-R Dual-Battery-Relay	24

Horns

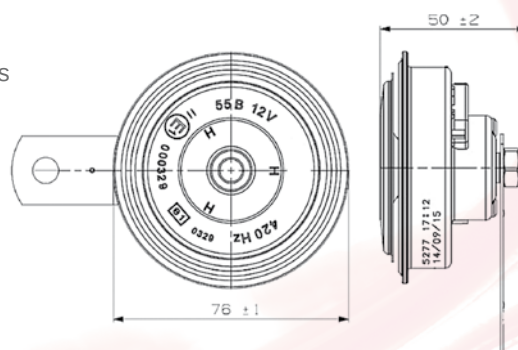


Horns

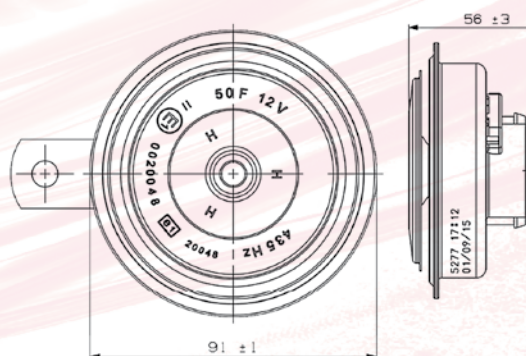


Dimensions

D1



D2



Item No.	Type	Nominal voltage Volt (V)	HT/TT/SET*	Frequency Hertz (Hz)	Dimensions Millimeter (mm)	Color	Connection type
12 412 901	Horn	12	TT	335	D2	schwarz/black	F-Type
12 412 907	Horn	12	TT	335	D2	schwarz/black	L-Type
12 412 906	Horn	12	TT	335	D2	schwarz/black	K-Jet
12 432 901	Horn	12	Set	335/450	D2	schwarz/black	F-Type
12 432 907	Horn	12	Set	335/450	D2	schwarz/black	L-Type
12 422 901	Horn	12	HT	450	D2	schwarz/black	F-Type
12 422 907	Horn	12	HT	450	D2	schwarz/black	L-Type
12 422 906	Horn	12	HT	335	D2	schwarz/black	K-Jet
12 612 901	Horn	12	TT	350	D1	schwarz/black	F-Type
12 612 907	Horn	12	TT	350	D1	schwarz/black	K-Jet
12 612 908	Horn	12	TT	350	D1	schwarz/black	L-Type
12 622 901	Horn	12	HT	420	D1	schwarz/black	F-Type
12 622 907	Horn	12	HT	420	D1	schwarz/black	K-Jet
12 622 908	Horn	12	HT	420	D1	schwarz/black	L-Type
12 413 902	Horn	24	TT	335	D2	schwarz/black	L-Type
12 413 901	Horn	24	TT	335	D2	schwarz/black	F-Type
12 423 901	Horn	24	HT	450	D2	schwarz/black	F-Type
12 423 902	Horn	24	HT	450	D2	schwarz/black	L-Type

* HT = Hochtton/high frequency, TT = Tieftton / low frequency, SET = Hochtton + Tieftton / high and low frequency



F-Type

Standard Universal Anschluss
6,3 x 0,8 DIN 46244



L-Type

Standard Universal Anschluss
6,3 x 0,8



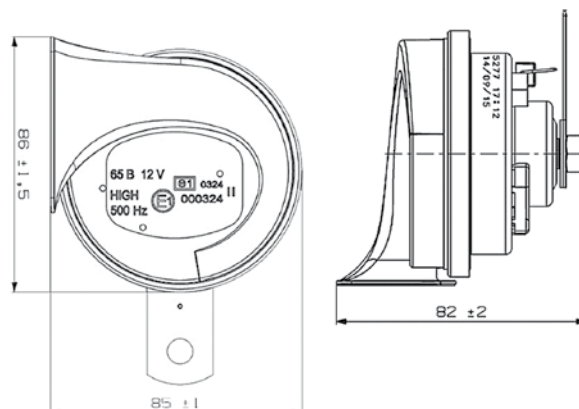
K-Jet

VW Anschluss
6,5 x 0,8

Horns



Dimension

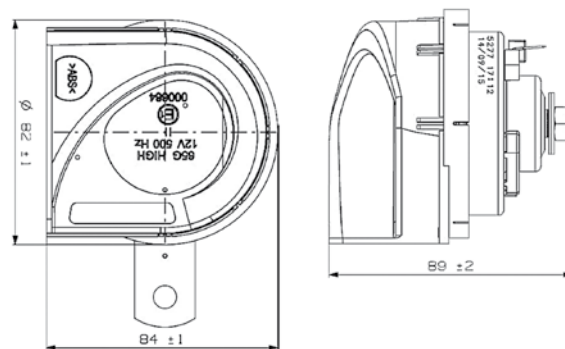


Item No.	Type	Nominal voltage Volt (V)	HT/TT/SET*	Frequency Hertz (Hz)	Color	Connection type
12 712 907	Fanfare	12	TT	420	schwarz/black	L-Type
12 722 907	Fanfare	12	HT	510	schwarz/black	L-Type
12 732 907	Fanfare	12	Set	420 / 510	schwarz/black	L-Type

* HT = Hochton/high frequency, TT = Tiefton / low frequency, SET = Hochton + Tiefton / high and low frequency



Dimension



Item No.	Type	Nominal voltage Volt (V)	HT/TT/SET*	Frequency Hertz (Hz)	Color	Connection type
12 712 906	Fanfare	12	TT	420	schwarz/black	K-Jet
12 712 901	Fanfare	12	TT	420	schwarz/black	F-Type
12 732 901	Fanfare	12	Set	420 / 510	schwarz/black	F-Type
12 732 902	Fanfare	12	Set	420 / 510	schwarz/black	K-Jet
12 722 906	Fanfare	12	HT	510	schwarz/black	K-Jet
12 722 901	Fanfare	12	HT	510	schwarz/black	F-Type

* HT = Hochton/high frequency, TT = Tiefton / low frequency, SET = Hochton + Tiefton / high and low frequency

Additional models upon request

Camera Systems



64 799 050
Camera VW



64 799 051
Camera VW

Camera Systems



64 799 054
Camera VW



64 799 057
Camera VW



64 799 070
Camera VW



64 799 072
Camera VW



64 799 073
Camera VW



64 799 075
Camera VW



64 799 092
Camera VW



64 799 110
Camera VW

Camera Systems



64 799 111
Camera VW



64 799 112
Camera VW



64 799 113
Camera VW



64 799 119
Camera VW



64 799 994
Camera VOLVO



64 799 025
Camera FORD



64 799 003
Camera Mercedes



64 799 030
Camera Mercedes

Camera Systems



64 799 026
Camera Mercedes



64 799 029
Camera Mercedes



64 799 032
Camera Mercedes



64 799 097
Camera Mercedes



64 799 101
Camera Mercedes



MP00083
Camera AUDI

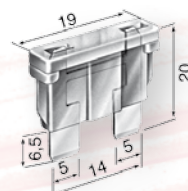


Fuses, Sockets and Accessories



Continental Fuses DIN 72581

Artikel Nr. Item No.	Nennstrom Nominal current Ampere (A)	Farbe Colour
11 400 005	5A	gelb/yellow
11 400 008	8A	weiss/white
11 400 016	16A	rot/rot
11 400 025	25A	blau/blau
11 400 040	40A	schwarz/black

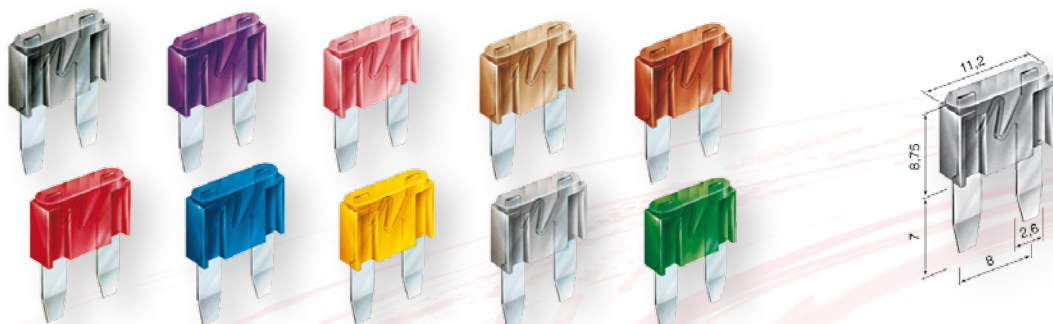


Blade Fuses

DIN 72581, FIAT 9.91815, SAE J 1284, max. 32V

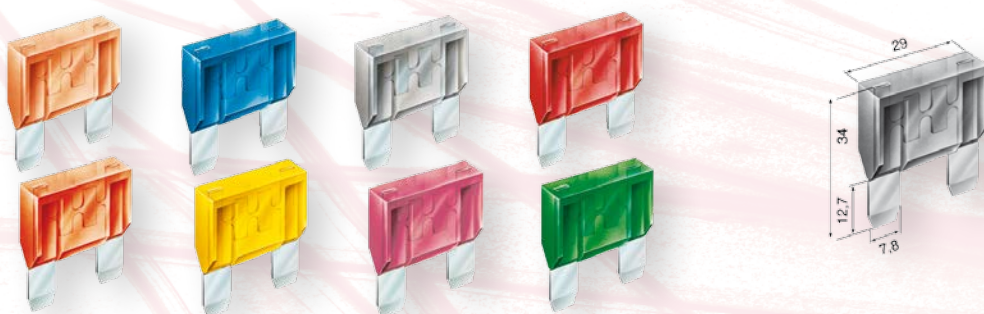
Artikel Nr. Item No.	Nennstrom Nominal current Ampere (A)	Farbe Colour
11 401 001	1A	schwarz/black
11 401 002	2A	grau/grey
11 401 003	3A	violett/violet
11 401 004	4A	rosa/pink
11 401 005	5A	hellbraun/light brown
11 401 007	7,5A	braun/brown
11 401 010	10A	rot/red
11 401 015	15A	blau/blue
11 401 020	20A	gelb/yellow
11 401 025	25A	farblos/neutral
11 401 030	30A	grün/green
11 401 040	40A	orange/orange

Fuses, Sockets and Accessories



MINI Blade Fuses SAE J 2077, max. 32V

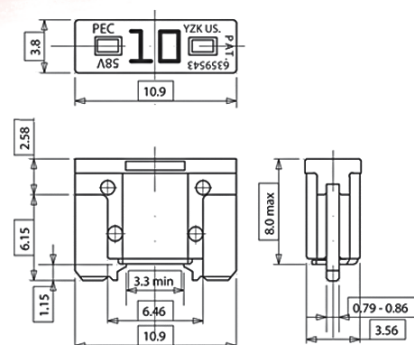
Item No.	Nominal current Ampere (A)	Colour
11 402 002	2A	grau/grey
11 402 003	3A	violett/violet
11 402 004	4A	rosa/pink
11 402 005	5A	hellbraun/light brown
11 402 007	7,5A	braun/brown
11 402 010	10A	rot/red
11 402 015	15A	blau/blue
11 402 020	20A	gelb/yellow
11 402 025	25A	farblos/neutral
11 402 030	30A	grün/green



MAXI Blade Fuses max. 32V

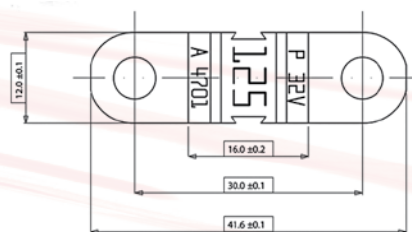
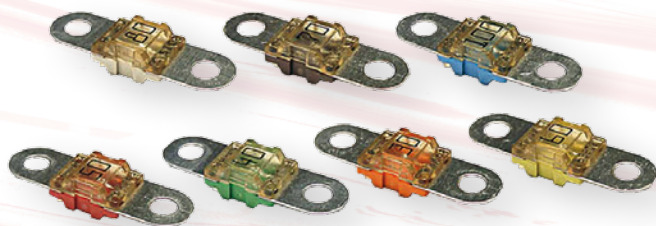
Item No.	Nominal current Ampere (A)	Colour
11 403 020	20A	gelb/yellow
11 403 030	30A	grün/green
11 403 040	40A	orange/orange
11 403 050	50A	rot/red
11 403 060	60A	blau/blue
11 403 070	70A	hellbraun/light brown
11 403 080	80A	farblos/neutral
11 403 100	100A	violett/violet

Fuses, Sockets and Accessories



Minipro ile Fuses max. 58V

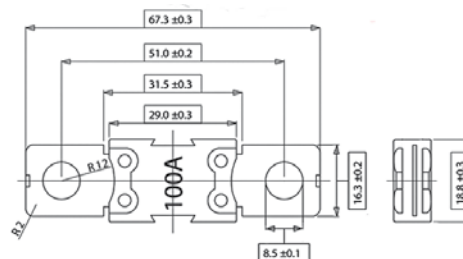
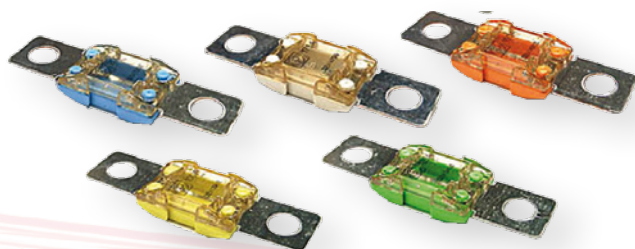
Item No.	Nominal current Ampere (A)	Colour
11 404 002	2A	grau/grey
11 404 003	3A	violett/violet
11 404 004	4A	rosa/pink
11 404 005	5A	tan
11 404 007	7,5A	braun/brown
11 404 010	10A	rot/red
11 404 015	15A	blau/blue
11 404 020	20A	gelb/yellow
11 404 025	25A	farblos/neutral
11 404 030	30A	grün/green



Midival Fuses max. 32V

Item No.	Nominal current Ampere (A)	Colour
11 405 030	30A	orange/orange
11 405 040	40A	grün/green
11 405 050	50A	rot/red
11 405 060	60A	gelb/yellow
11 405 070	70A	braun/brown
11 405 080	80A	weiss/white
11 405 100	100A	blau/blue
11 405 125	125A	rosa/pink
11 405 150	150A	grau/grey
11 405 200	200A	violett/violet

Fuses, Sockets and Accessories



Megaval Fuses max. 32V

Item No.	Nominal current Ampere (A)	Colour
11 406 100	100A	gelb/yellow
11 406 125	125A	grün/green
11 406 150	150A	orange/orange
11 406 175	175A	weiss/white
11 406 200	200A	blau/blue
11 406 225	225A	tan
11 406 250	250A	rosa/pink
11 406 300	300A	grau/grey
11 406 400	400A	violett/violet
11 406 500	500A	braun/brown



Continental Fuses Blister Packaging 10 pcs, max. 32V

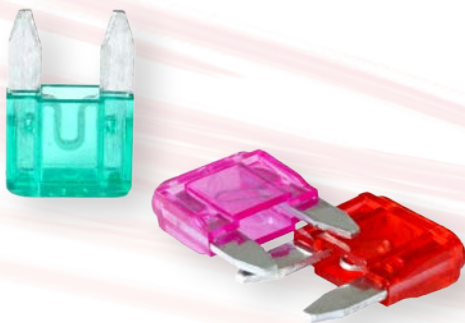
Item No.	Nominal current Ampere (A)
11 410 001	1x 5A, 4x 8A, 2x 16A, 2x 25A, 1x 40A
11 410 002	1x 5A, 4x 8A, 3x 16A, 2x 25A
11 410 003	1x 5A, 3x 8A, 1x 10A, 3x 16A, 2x 25A
11 410 004	1x 5A, 4x 8A, 2x 16A, 1x 25A, 1x 40A, 1x Glas/Glass 5x20 2A
11 410 005	1x 5A, 4x 8A, 2x 16A, 2x 25A, 1x Glas/Glass 5x20 2A
11 410 006	1x 5A, 2x 8A, 2x 10A, 2x 16A, 2x 25A, 1x Glas/Glass 5x20 2A

Fuses, Sockets and Accessories



Blade Fuses
Blister Packaging

Item No.	Nominal current Ampere (A)
11 411 001	1x 3A, 1x 5A, 1x 7,5A, 2x 10A, 1x 15A, 2x 20A, 1x 25A, 1x 30A
11 411 002	1x 3A, 1x 5A, 1x 7,5A, 1x 10A, 1x 15A, 2x 20A, 1x 25A, 1x 30A
11 411 003	1x 7,5A, 1x 10A, 1x 15A, 1x 20A, 1x 25A, 1x 30A
11 411 004	1x 7,5A, 2x 10A, 1x 15A, 2x 20A, 1x 25A, 1x 30A



MINI Blade Fuses Blister Packaging

Artikel Nr. Item No.	Nennstrom Nominal current Ampere (A)
11 412 001	1x 5A, 2x 7,5A, 2x 10A, 2x 15A, 1x 20A, 1x 25A, 1x 30A
11 412 002	1x 3A, 1x 5A, 1x 10A, 1x 15A, 1x 20A, 1x 30A

Fuses, Sockets and Accessories



MAXI Blade Fuses Blister Packaging

Item No.	Nominal current Ampere (A)
11 413 001	1x 30A, 1x 40A, 1x 50A, 1x 60A, 1x 70A
11 413 002	1x 30A, 1x 40A
11 413 003	1x 50A, 1x 60A



Glass Fuses Blister Packaging

Item No.	Nominal current Ampere (A)
11 414 001	2x 6,3x32 16A, 2x 6,3x32 10A, 1x 6,3x32 25A, 1x 5x20 2A

Fuses, Sockets and Accessories



Blade Fuses in box + extractor

Item No.	Nominal current Ampere (A)
11 415 001 (80 STK)	10x 3A, 10x 5A, 10x 7,5A, 10x 10A, 10x 15A, 10x 20A, 10x 25A, 10x 30A, 1x Zange/extractor
11 415 002 (160 STK)	20x 3A, 20x 5A, 20x 7,5A, 20x 10A, 20x 15A, 20x 20A, 20x 25A, 20x 30A, 1x Zange/extractor



Blade Fuses MINI

Item No.	Nominal current Ampere (A)
11 415 004 (40 STK)	3x 20A, 3x 30A, 10x 40A, 10x 50A, 10x 60A, 2x 70A, 2x 80A
11 415 003 (80 STK)	10x 2A, 10x 3A, 5x 4A, 5x 5A, 10x 7,5A, 10x 10A, 10x 15A, 10x 20A, 5x 25A, 5x 30A

Fuses, Sockets and Accessories



FUSE SET IN BOX 360 pcs

Item No.	Nominal current Ampere (A)
11 415 005	Flachstecksicherungen/Blade Fuses: 25x 5A, 25x 7,5A, 25x 10A, 25x 15A, 25x 20A, 25x 25A, 25x 30A; 25x 40A, Flachstecksicherungen MINI/MINI Blade Fuses: 00x 8A, 100x 16A, 100x 25A Glassicherungen/Glass Fuses: 100x 2A



FUSE SET IN BOX 1050 pcs

Item No.	Nominal current Ampere (A)
11 415 006	Flachstecksicherungen/Blade Fuses: 50x 5A, 100x 7,5A, 100x 10A, 100x 15A, 100x 20A, 50x 25A, 50x 30A; Schmelzsicherungen/Continental Fuses: 200x 8A, 100x 16A, 100x 25A Glassicherungen/Glass Fuses: 100x 2A

Fuses, Sockets and Accessories



10 070 001

Flat Socket Connector 6,3mm / without insulated fitting



10 070 002

Flat Socket Connector 6,3mm with crimp contact / with insulated fitting



10 070 006

Flat Socket Connector with Claw 2,8x0,8mm / without insulated fitting



10 070 007

Flat Socket Connector with Claw 9,5mm / with insulated fitting

Additional models upon request



10 050 004

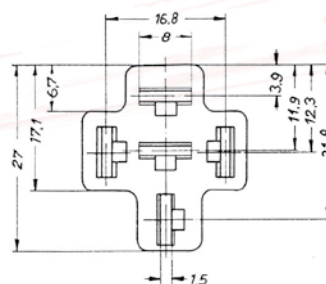
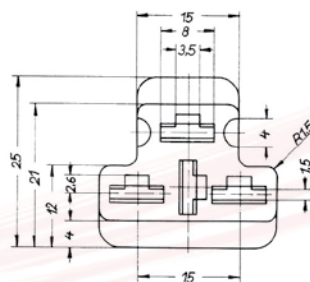
Flat Socket Connector



10 485 007

Flat Socket Connector

Terminal Configurations



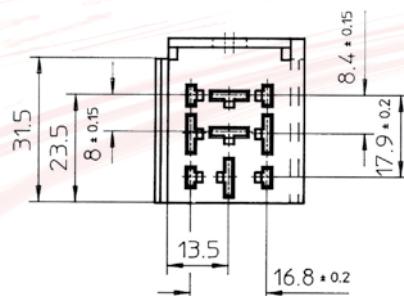
Fuses, Sockets and Accessories

Terminal Configurations



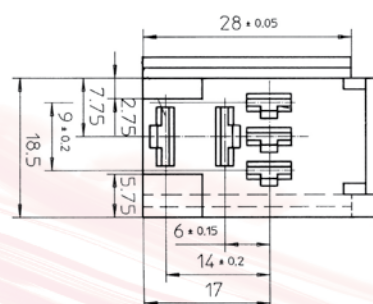
10 485 008

Socket



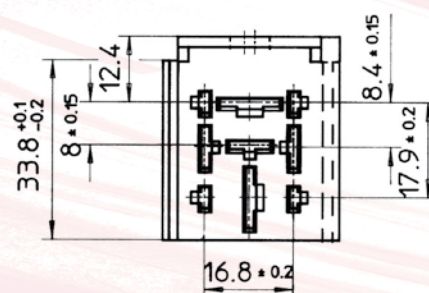
10 700 004

Socket



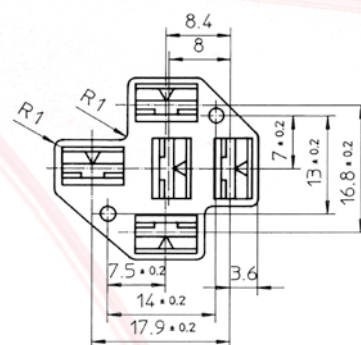
10 700 007

Socket (Black)



10 700 005

Socket (Beige)



10 700 006

Socket for PCB-mounting 5 x 6,3mm

Fuses, Sockets and Accessories



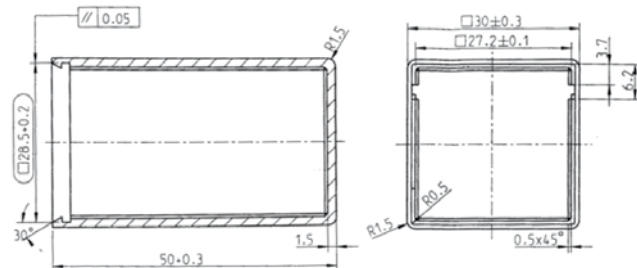
52 620 01 03

Housing neutral

52 620 02 04

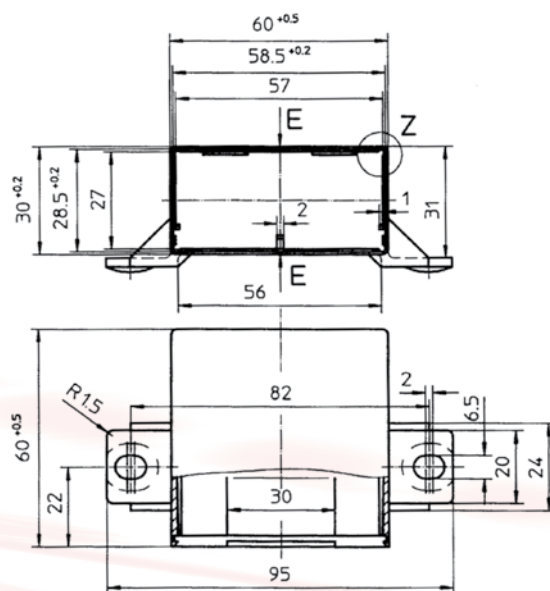
Housing WEHRLE

Terminal Configurations



54 620 08 03

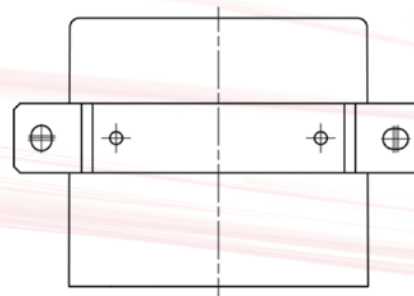
Housing



58 680 63 14

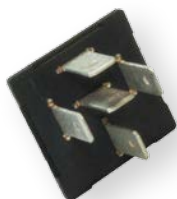
Housing 95x85x35 mm

Metal bracket



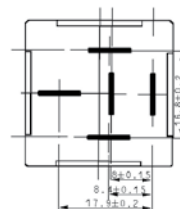
Additional models upon request

Fuses, Sockets and Accessories

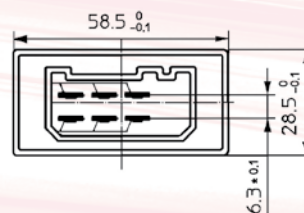


51 680 74 24
Ground plate

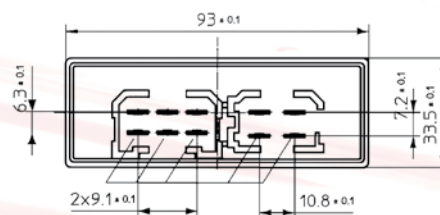
Terminal Configurations



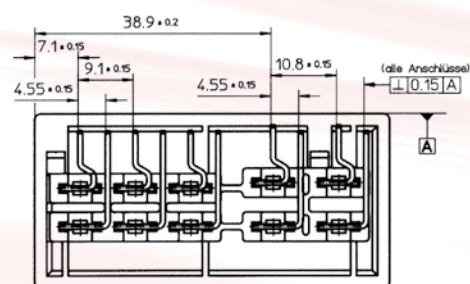
54 680 60 24
Ground plate



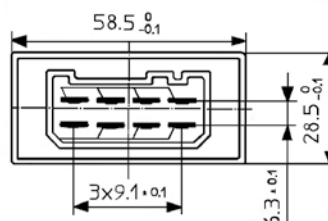
58 680 58 24
Ground plate



61 680 40 03
Ground plate



50 680 19 24
Ground plate



Additional models upon request

Cross References

Vehicle Brand	Reference No.	Wehrle No.
---------------	---------------	------------

ALFA ROMEO		
Alfa Romeo	530165	55990001
Alfa Romeo	701656	55990020
Alfa Romeo	4792112	51299016
Alfa Romeo	5301658	55990001
Alfa Romeo	5946920	51299016
Alfa Romeo	5990986	51299016
Alfa Romeo	7606542	22204030A
Alfa Romeo	51771823	51299012D
Alfa Romeo	51888255	51299012D
Alfa Romeo	60816316	51299012D
Alfa Romeo	1053865028	55990001
Alfa Romeo	11913050600	55990020
Alfa Romeo	105120592102	10485007
Alfa Romeo	105366502800	55990001
Alfa Romeo	116619601600	51699005
Alfa Romeo	119130506132	55990020
Alfa Romeo	510610000000	55990001
Alfa Romeo	701656000000	55990020
Alfa Romeo	1050865093 00/00	53201101

AUDI		
Audi	2991055	55990001
Audi	021903803	55990001
Audi	028903803	55990001
Audi	052903803	55990020
Audi	053903803	55990020
Audi	063903803	55990020
Audi	113953227	54201101
Audi	113953227	54237001
Audi	113953227	54237012
Audi	119953227	54201102
Audi	141951253	20210100A
Audi	165906381	50237013
Audi	171937503	22200106A
Audi	183951253	20400000A
Audi	183951253	20400100A
Audi	191937503	22204013
Audi	191951113	12412906
Audi	321911261	51233011
Audi	321937501	10485008
Audi	431455531	20200100A
Audi	431951254	20200001A
Audi	431953231	13201103
Audi	431959231	13201103
Audi	443911261	51233001
Audi	535951113	12412906
Audi	690937503	22200030
Audi	690955531	60401001A
Audi	857951253	13204004
Audi	893911261	51233001
Audi	1119953227	54201158
Audi	3259038031	55990020
Audi	94461511900	20201101
Audi	021903803A	55990001
Audi	028903803A	55990020
Audi	038907281B	51799060
Audi	038907281D	51799026

Audi	043903803B	55990001
Audi	043903803E	55990001
Audi	049903803B	55990020
Audi	049903803E	55990020
Audi	049903803EF	55990020
Audi	049903803F	55990020
Audi	04L907281	51799026
Audi	04L907282	51799060
Audi	04L907283	51799062
Audi	052903803A	55990020
Audi	053903803B	55990020
Audi	059903803A	55990001
Audi	059903803B	55990020
Audi	059903803C	55990020
Audi	068903803B	55990020
Audi	070903803A	55990020
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Audi	111953227A	54201102
Audi	111953227A	54201158
Audi	111953227A	54237001
Audi	111953227B	54201101
Audi	111953227B	54201102
Audi	111953227B	54201158
Audi	111953227B	54237001
Audi	111953227D	54201101
Audi	111953227D	54237001
Audi	111953227D	54237012
Audi	141951253A	20200100A
Audi	141951253B	20240073
Audi	141951253B	22200030
Audi	171911261A	51233001
Audi	171911261B	51233001
Audi	171911261C	51233001
Audi	171911261D	51233001
Audi	171911261E	51233001
Audi	191906383C	13204004
Audi	191911261C	51233001
Audi	191953227A	54201101
Audi	191953227A	54201102
Audi	191953227A	54201158
Audi	191953227A	54237001
Audi	191953227A	54237012
Audi	1H0951213	12422906
Audi	1H0953227	54201101
Audi	1H0953227	54237001
Audi	1H0953227	54237012
Audi	1J0919506M	69200107
Audi	1J0951209	12412906
Audi	211953231G	13201103
Audi	2D0951253A	13290200
Audi	311906061C	20207000
Audi	311906061C	20207000A
Audi	311963141B	20200100A
Audi	321911261C	51233011
Audi	3A0927181	61233004
Audi	411903803A	55990001
Audi	431951253D	13201140
Audi	431951253D	20201101
Audi	431951253H	20240073
Audi	431951253H	22200030
Audi	431951253H	22200106A
Audi	431963141B	13201103
Audi	443911261A	51233001
Audi	443951253J	22200117A

Audi	443951253J	22204013
Audi	443951254A	20201000A
Audi	443951254A	20201100A
Audi	6N0951101	12412906
Audi	7M0951253C	29201075A
Audi	803951253A	13201140
Audi	803951253A	20201101
Audi	803953183B	54201101
Audi	803953183B	54237001
Audi	803953183B	54237012
Audi	8N0951113	12412906
Audi	IH0953227	54201102
Audi	IH0953227	54201158
Audi	IH0953227	54237012
Audi	KDWHL09042	53201101
Audi	KDWHL09678	20201103
Audi	KDWHL09100	10485008
Audi	7P6980551C	MP00083

AUSTIN		
Austin	GFU2204	54298000
Austin	PRC5020	51299016

AUWÄRTER		
Auwärter	150552100	20407100A
Auwärter	150554800	10485008
Auwärter	150604510	53401101
Auwärter	150802301	10485008
Auwärter	151200200	54407008
Auwärter	771BG006	53401101
Auwärter	771-BG015	53201101

BERU		
Beru	899188	51233001
Beru	0201010031	51233001
Beru	0201010064	51233008A
Beru	0201010065	51299016
Beru	0522120722	51799018
Beru	0900301082	60201002
Beru	GR031	51233001
Beru	GR064	51233008A
Beru	GR065	51299016
Beru	GSE143	51799018

BMW		
BMW	0005192	50201004B
BMW	1126966	53201102
BMW	1154894	50201004B
BMW	1243207	20207000
BMW	1243207	20207000A
BMW	1244062	11244063
BMW	1244063	11244063
BMW	1244377	54201102
BMW	1244377	54237001
BMW	1244377	54237012
BMW	1244392	54201102
BMW	1244392	54237001
BMW	1244392	54237012
BMW	1351317	20210100A
BMW	1352232	20206100A
BMW	1352252	20206100A
BMW	1352854	54298000
BMW	1353789	20210100A
BMW	1357498	11244063

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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BMW	1360877	20210100A
BMW	1365113	54201101
BMW	1365113	54201102
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BMW	1371539	54201102
BMW	1371539	54237001
BMW	1371539	54237012
BMW	1371907	54201101
BMW	1371907	54201102
BMW	1371907	54237012
BMW	1371909	54201101
BMW	1371909	54237012
BMW	1372021	13201103
BMW	1372537	20210100A
BMW	1373585	20210100A
BMW	1388533	54225003
BMW	1390383	22210531
BMW	4257342	54201101
BMW	4257342	54237001
BMW	4257342	54237012
BMW	7794967	51799080A
BMW	7920100	20401100A
BMW	12111364984	54201158
BMW	12111365113	54201158
BMW	12217794967	51799080A
BMW	12311244062	11244063
BMW	12311244063	11244063
BMW	12311268387	55990020
BMW	12311286073	55990020
BMW	12311356063	55990020
BMW	12311357498	11244063
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BMW	12321357457	55990001
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BMW	12328708000	55990001
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BMW	61311351317	20210100A
BMW	61311352232	20206100A
BMW	61311353186	20210100A
BMW	61311353789	20210100A
BMW	61311362386	54201158

BMW	61311365113	54201101
BMW	61311365113	54201158
BMW	61311365117	13201103
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BMW	61311371909	54201101
BMW	61311373156	22200030
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BMW	61311373585	20210100A
BMW	61311378302	20400000A
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BMW	61361390383	22210531
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BMW	1372538A	20210100A

BOSCH		
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Bosch	0332014206	20407100A
Bosch	0332014213	20400000A
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Bosch	0332014451	22200106A
Bosch	0332017103	29200006A
Bosch	0332019103	20240073
Bosch	0332019103	22204030A
Bosch	0332019150	20207000

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Bosch	0332019150	20207000A
Bosch	0332019150	20207100A
Bosch	0332019151	20207000
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Bosch	0332019203	20410100A
Bosch	0332019204	20407100A
Bosch	0332019213	20400000A
Bosch	0332019213	20407100A
Bosch	0332019451	20200102A
Bosch	0332200014	20401100A
Bosch	0332204101	20201100A
Bosch	0332204103	20201100A
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Bosch	0332204109	20201101
Bosch	0332204113	20201100A
Bosch	0332204125	13201140
Bosch	0332204125	20201000A
Bosch	0332204125	20201100A
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Bosch	0332204201	20401000A
Bosch	0332204202	20401100A
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Bosch	0332204204	20401103
Bosch	0332204206	20401101
Bosch	0332204211	20401100A
Bosch	0332204212	20401103
Bosch	0332204213	20401003
Bosch	0332204213	20401103
Bosch	0332204214	20401003
Bosch	0332204214	20401103
Bosch	0332204402	20201100A
Bosch	0332204802	20401100A
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Bosch	0332207101	29201075A
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Bosch	0332207104	29201045
Bosch	0332207110	29201075A
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Bosch	0332207202	29401041
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Bosch	0332207307	29201075A
Bosch	0332207310	29201075A
Bosch	0332207321	29201075A
Bosch	0332207402	29401041
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Bosch	0335200079	54201101
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Bosch	0335200801	54201101
Bosch	0335215033	54407009
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Bosch	0335215145	54407006
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Bosch	0335215156	54407008
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Bosch	0335215163	54407010A
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Bosch	0986332001	22204013
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Bosch	3334485045	10700004
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Bosch	9190087011	55990001
Bosch	9320335007	12732901
Bosch	9320335007	12732907
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Bosch	9320335013	12722907
Bosch	9320335052	12732901
Bosch	9320335052	12732907
Bosch	033220410751	20201000A
Bosch	033220410751	20201100A
Bosch	033220420102	20401000A
Bosch	0 332 209 204	20401003

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Bosch	0986AH0501	12712906
Bosch	0986AH0501	12712901
Bosch	0986AH0501	12712907
Bosch	0986AH0502	12722901
Bosch	0986AH0502	12722907
Bosch	0986AH0503	12732901
Bosch	0986AH0503	12732907
Bosch	6033FB1214	12722901
Bosch	6033FB1214	12722907
Bosch	6033FB1217	12732901
Bosch	6033FB1217	12732907
Bosch	M04321110	20401003

BUICK/CADILLAC		
Buick/Cadillac	90055543	54201158

CARGO		
Cargo	130675	55990001
Cargo	130676	55990020
Cargo	160080	20200100A
Cargo	160081	20201100A
Cargo	160082	20400100A
Cargo	160083	20210100A
Cargo	160199	54407008
Cargo	160216	20401100A
Cargo	160240	22400117A
Cargo	160242	54201101
Cargo	160243	54201102
Cargo	160261	54401101
Cargo	160262	54407006
Cargo	160263	54229002A
Cargo	160265	20207000
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Cargo	160266	20407100A
Cargo	160267	20206100A
Cargo	160270	20201103
Cargo	160271	20401003
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Cargo	160282	20200100A
Cargo	160282	22200106A
Cargo	160295	50205002
Cargo	160296	54401102
Cargo	160297	60201002
Cargo	160307	20400100A
Cargo	160308	20201100A
Cargo	160311	22200106A
Cargo	160337	20401100A
Cartier	01403	54201136A

CARTIER		
Cartier	01406	54201101
Cartier	01408	54401101
Cartier	01408	54401102
Cartier	03523	20401000A
Cartier	03526	20401100A
Cartier	03606	20400100A
Cartier	03701	20207000
Cartier	03701	20207000A

Cartier	ITA412	54201136A
Cartier	ITA424	54201136A

CASE		
Case	07074850	20201103
Case	1301458C1	20201103

CATERPILLAR		
Caterpillar	7T6365	10485008
Caterpillar	8C5534	55990001

CITROEN		
Citroen	598111	51299016
Citroen	598111	51699004
Citroen	598115	51299016
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Citroen	92515869	51299016
Citroen	9251586780	51699004
Citroen	9251586980	51699004
Citroen	9616280080	51699008
Citroen	9616582380	51699008
Citroen	9616582480	51699007
Citroen	9639912580	51799043
Citroen	9640469680	51252002
Citroen	9666671780	51799080A
Citroen	9802424080	51799080A
Citroen	9803299780	51799080A
Citroen	9809931580	51799080A
Citroen	AL5351	55990001
Citroen	AL535101	55990001
Citroen	AL535101A	55990001

CLAAS		
Claas	05835410	54229002A

DACIA		
Dacia	6001546572	51699003

DAEWOO		
Daewoo	3334485008	10485008

DAF		
DAF	241534	55990001
DAF	241808	55990001

DAF	241960	55990001
DAF	244332	55990020
DAF	246585	55990001
DAF	248279	55990001
DAF	266941	55990001
DAF	279419	54201158
DAF	0288326	53401102
DAF	0384127	54407006
DAF	0515912	20401101
DAF	0515913	10485008
DAF	515913	10485008
DAF	530878	55990001
DAF	531914	55990001
DAF	588950	55990001
DAF	621970	54407010A
DAF	0636222	54407006
DAF	636222	54407006
DAF	0677155	10485008
DAF	692061	55990020
DAF	0867510	53401101
DAF	0867514	20410100A
DAF	0867535	10700006
DAF	1226138	10485008
DAF	1301879	13405101
DAF	1308030	55990001
DAF	1320483	13405101
DAF	1448174	13405101
DAF	1519523	20401000A
DAF	1519523	20401100A
DAF	1519526	54407008
DAF	1523981	22200030
DAF	1523982	20407000A
DAF	1523982	20407100A
DAF	1526247	53401101
DAF	1526897	13480201
DAF	1527511	20407100A
DAF	1658004	13490200
DAF	6212039	55990001

DELCO		
Delco	9009353	55990020
Delco	90009353	55990020
Delco	D679	55990020

DEMAG		
Demag	22044312	10485008
Demag	60499740	54407008
Demag	97392273	10485008

DEUTZ-FAHR		
Deutz-Fahr	1160363	55990001
Deutz-Fahr	1160376	55990001
Deutz-Fahr	1163008	55990001
Deutz-Fahr	01164019	10485007
Deutz-Fahr	1164678	54407009
Deutz-Fahr	1172118	55990001
Deutz-Fahr	01172973	54229002A
Deutz-Fahr	1173068	55990020
Deutz-Fahr	01175862	10485008
Deutz-Fahr	1177496	55990020
Deutz-Fahr	01178519	20201103
Deutz-Fahr	1306557	55990020
Deutz-Fahr	1320407	55990020
Deutz-Fahr	2404405	55990001

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Deutz-Fahr	2589161	54407009
Deutz-Fahr	04255261	13290200
Deutz-Fahr	04271688	51751001
Deutz-Fahr	04271689	51951001
Deutz-Fahr	04271981	13003499
Deutz-Fahr	4388483	22200131
Deutz-Fahr	04411492	22204030A
Deutz-Fahr	6263052	10485008
Deutz-Fahr	8122153	55990020
Deutz-Fahr	8123625	55990020
Deutz-Fahr	41910907	13490300
Deutz-Fahr	42484638	55990020
Deutz-Fahr	42490291	55990020
Deutz-Fahr	60499740	54407008
Deutz-Fahr	286390030	54229002A
Deutz-Fahr	286390070	54229002A
Deutz-Fahr	1160363EF8976	55990001
Deutz-Fahr	1160373EF89761	55990001
Deutz-Fahr	1163008Q	55990001
Deutz-Fahr	1175862ES823970	10485008
Deutz-Fahr	T1H7615	55990001
Deutz-Fahr	T4H7615	55990001

ERA		
Era	601733	13203120A
Era	661010	13203120A
Era	661022	20240073
Era	661060	69200101
Era	661065	69200107
Era	661069	51233008A
Era	661081	20207000
Era	661081	20207000A
Era	661086	10485008
Era	661087	10700004
Era	661089	13204004
Era	661091	13620302
Era	661104	20400000A
Era	661107	20401003
Era	661114	22200106A
Era	661115	22200117A
Era	661116	22204013
Era	661118	22204030A
Era	661125	51233008A
Era	661128	29201075A
Era	661130	50205603
Era	661131	50237009
Era	661132	50237010
Era	661133	50237012
Era	661136	51223909
Era	661137	51233001
Era	661138	51233008A
Era	661139	51233011
Era	661141	53201101
Era	661142	53401101
Era	661143	53401102
Era	661148	54225003
Era	661150	54201101
Era	661152	54401102

Era	661153	54407006
Era	661153	54407015
Era	661154	54407008
Era	661155	54407010A
Era	661156	60201002
Era	661160	61237009
Era	661162	13280999
Era	661170	10700005
Era	661172	20401103
Era	661173	10485007
Era	661177	29401041
Era	661215	10700007
Era	661222	29401000
Era	661223	50201004B
Era	661229	58226608
Era	661230	58227001
Era	661269	51799029A
Era	661270	51799030A

FAUN		
Faun	0621970	54407010A
Faun	1713068	55990001
Faun	1713074	53401101
Faun	1713075	55990001
Faun	1713094	55990001
Faun	1731197	20206100A
Faun	1793275	10485008
Faun	1793337	10485007
Faun	8412775	53401101

FEBI		
Febi	01483	50205002
Febi	04636	60201002
Febi	04675	51233008A
Febi	11086	51299016
Febi	11574	54201101
Febi	30905	51799030A
Febi	37105	51799029A
Febi	37688	13405101

FENDT		
Fendt	3387326M2	22204013
Fendt	3539335M92	20207000
Fendt	3539335M92	20207000A
Fendt	3615652M1	13201140
Fendt	3906604M1	20207000
Fendt	3906604M1	20207000A
Fendt	4272431M1	29201075A
Fendt	D45060021	22200106A
Fendt	H3129000200020	22200119
Fendt	K830060011010	55990020
Fendt	X820250021	20201100A
Fendt	X830030063000	54229002A
Fendt	X830030064000	54229002A
Fendt	X830230710	10485008
Fendt	X830250007	20201100A
Fendt	X830250014	53201101
Fendt	X830250015	60201002
Fendt	X830250024000	20200102A
Fendt	X83030065000	54229002A

FERRARI		
Ferrari	110358	10485007
Ferrari	110663	10485008

Ferrari	157991	20200001A
Ferrari	157991	22204030A
Ferrari	04013007	20207000
Ferrari	04013007	20207000A
Ferrari	40323800	10485008
Ferrari	50115401	10485007
Ferrari	313320134	20207000
Ferrari	313320134	20207000A

FIAT		
Fiat	1164650	10485008
Fiat	2374720	51299012D
Fiat	4224067	55990001
Fiat	4224467	55990001
Fiat	4339372	20207000
Fiat	4339372	20207000A
Fiat	4474755	55990020
Fiat	4475269	55990020
Fiat	4475296	55990020
Fiat	4476337	54201158
Fiat	4701484	55990020
Fiat	4731653	55990020
Fiat	4792112	51299016
Fiat	4792112	51699004
Fiat	4792112	51699007
Fiat	5113898	10485008
Fiat	5462703	51699004
Fiat	5942627	54201136A
Fiat	5946920	51299016
Fiat	5946920	51699008
Fiat	5990986	51299016
Fiat	5990986	51699004
Fiat	5990986	51699007
Fiat	7073503	55990020
Fiat	7074261	55990020
Fiat	7075469	55990020
Fiat	7573490	54201158
Fiat	7595406	54201136A
Fiat	7606542	22204030A
Fiat	7612321	20207000
Fiat	7612321	20207000A
Fiat	7617640	51699004
Fiat	7775644	20207103A
Fiat	7789496	54201158
Fiat	8122182	55990001
Fiat	8168785	10485008
Fiat	9927829	55990020
Fiat	9933186	55990020
Fiat	9934791	55990020
Fiat	9935921	51699007
Fiat	9936532	55990020
Fiat	9940343	55990020
Fiat	9943793	55990020
Fiat	9950085	55990020
Fiat	12336287	10485007
Fiat	32190845	20201103
Fiat	42490291	55990020
Fiat	43423043	51699007
Fiat	46414088	51699007
Fiat	46423043	51699008
Fiat	46438456	51699007
Fiat	46742375	51299012D
Fiat	51233720	51299012D
Fiat	51395260	22204013

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Fiat	51769616	20200001A
Fiat	51771823	51299012D
Fiat	51888255	51299012D
Fiat	60812527	51699007
Fiat	60816316	51299012D
Fiat	75213456	55990001
Fiat	75218018	55990001
Fiat	82264822	55990001
Fiat	82302913	55990020
Fiat	82430021	54201158
Fiat	500341925	20200001A
Fiat	500341925	22204030A
Fiat	961595948	51699007
Fiat	116619601600	51299016

FORD		
Ford	1035579	13201103
Ford	01035579	54201158
Ford	01037955	54201158
Ford	01050711	54201158
Ford	1447502	55990020
Ford	1477502	55990020
Ford	1479291	13201103
Ford	1519814	20201100A
Ford	01631494	54201158
Ford	1669134	53201102
Ford	04078559	54201158
Ford	4147429	13201103
Ford	04162892	54201158
Ford	4330629	54201101
Ford	5002210	13201103
Ford	5003694	13201103
Ford	5011363	55990001
Ford	5011364	55990020
Ford	5012444	55990020
Ford	5013273	55990020
Ford	5018311	55990001
Ford	05020137	54201158
Ford	5100820	10485008
Ford	6015107	13280999
Ford	6025611	55990001
Ford	6036646	55990020
Ford	6041768	54201101
Ford	6041768	54201102
Ford	06041768	54201158
Ford	6041768	54237001
Ford	6041768	54237012
Ford	6048781	54201101
Ford	06048781	54201158
Ford	6048781	54237001
Ford	6048781	54237012
Ford	6050578	20210100A
Ford	6057627	55990020
Ford	6058163	54407008
Ford	6059235	20210100A
Ford	06061005	54201158
Ford	06083293	10485008
Ford	6107322	51204003

Ford	6123250	54201101
Ford	06123250	54201158
Ford	6126024	54201101
Ford	06126024	54201158
Ford	6143688	51216003A
Ford	6143688	51233008A
Ford	6149338	22200030
Ford	6188591	51216003A
Ford	6188591	51233008A
Ford	6193228	20200100A
Ford	06822566	54201158
Ford	07203386	54201158
Ford	7228813	13201103
Ford	07228813	54201158
Ford	7352574	20200001A
Ford	7352574	22204030A
Ford	11436766	55990001
Ford	11444237	55990001
Ford	11444238	55990001
Ford	11444273	55990001
Ford	82003697	20207000
Ford	82003697	20207000A
Ford	289038031	55990020
Ford	325903803	55990020
Ford	1100010750	20401100A
Ford	1100010750	20401105
Ford	510062002742	10485007
Ford	13A025D	20200001A
Ford	1C1T13350BA	54201101
Ford	1C1T13350CA	13201103
Ford	3M5T-12A343-AA	51252002
Ford	71BB10316AA	55990020
Ford	71BG10B926AA	20201100A
Ford	72VG10316AA	55990001
Ford	73BB10316AA	55990001
Ford	74BB10316AA	55990001
Ford	74GB10316AA	55990020
Ford	74HB13350AB	54407008
Ford	75DB13350A3A	54201101
Ford	75DB13350A3A	54201102
Ford	75DB13350A3A	54201158
Ford	75DB13350A3A	54237001
Ford	75DB13350AA	54201102
Ford	75DB13350AA	54201158
Ford	75DB13350AA	54237001
Ford	75NB13350AA	13201103
Ford	76GG11406AA	20210100A
Ford	78GB10300AA	55990020
Ford	78GB10316AA	55990020
Ford	78GG13350AA	13201103
Ford	78GG13350AA	54201158
Ford	78VB6911AA	20210100A
Ford	81BG13350AB	54201101
Ford	81BG13350AB	54201158
Ford	81BG13350AB	54237001
Ford	81DB10316AA	55990020
Ford	81DB14A481AA	10485008
Ford	81DB15K235VA	20400000A
Ford	81DB15K235VA	20400100A
Ford	82GG9P704AA	51204003
Ford	83BB6M092AA	51216003A
Ford	83BB6M092AA	51233008A
Ford	83BB6M092BA	51216003A
Ford	83BB6M092BA	51233008A

Ford	83BG13350AA	54201101
Ford	83BG13350AA	54201158
Ford	83BG13350AA	54237001
Ford	83GB14B89CA	22200030
Ford	85GG13350AA	54201101
Ford	85GG13350AA	54237001
Ford	85GG13350AA	54237012
Ford	86GB10316AA	55990020
Ford	88BG8B658AA	51233008A
Ford	90BB9E731EA	20200100A
Ford	93AG13350AB	13201103
Ford	95VW17C499CA	20200001A
Ford	95VW17C499CA	22204030A
Ford	97CT15K234AA	20410100A
Ford	97CT15K235BA	13480201
Ford	A77SX13350AA	13201103
Ford	A830X10316FA	55990020
Ford	A840 X10316CA	55990020
Ford	A840X10316AA	55990020
Ford	AV61-12A343-AB	51799080A
Ford	AV61-12A343-CA	51799080A
Ford	AV6Q-12A343-V3	51799080A
Ford	DS71-12A343-AA	51799080A
Ford	DS71-12A343-AB	51799080A
Ford	V92VG13350AA	53201102
FORD	AA6J 19G490 AB	64799025

GM		
GM	09108385	51699001
GM	9110510	51699006
GM	09110721	51699002
GM	9116721	51699003
GM	09130685	58226608
GM	9132691	51799018
GM	9201699	51699003
GM	13132367	22204013
GM	24433728	29200075A
GM	24438887	22200030
GM	55353011	51799014
GM	55354141	51799018
GM	55557760	51799044
GM	55557761	51799045
GM	90009353	55990020
GM	90055543	54201005
GM	90187597	53201101
GM	90191753	20201101
GM	90225811	50205603
GM	090228928	51233008A
GM	90230894	50205603
GM	090240651	51233008A
GM	90240698	50205603
GM	90274200	55990001
GM	90275794	50201004B
GM	090276101	51233008A
GM	90276101	51233008A
GM	90341819	50201004B
GM	90341822	51233008A
GM	90378651	50205603
GM	90464952	51233008A
GM	90494959	22204013
GM	94626061	55990020

HANOMAG		
Hanomag	5945121597938	20401003

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Hanomag	5945121597938	20401103
Hanomag	3097003M1	20401103
Hanomag	3097600M1	20201103
Hanomag	4211099M91	51427001
Hanomag	4225939M1	22200117A
Hanomag	42Y-06-H1140	60401001A
Hanomag	4901665M1	20401103

HELLA		
Hella	87125	10700004
Hella	75614067	51233011
Hella	3AL002952-011	12422901
Hella	3AL002952-011	12422907
Hella	3AL002952-017	12422901
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Hella	3AL002952-112	12412901
Hella	3AL002952-112	12412907
Hella	3AL002952-128	12412901
Hella	3AL002952-441	12412901
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Hella	3AL002952-447	12412901
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Hella	3AL002952-481	12413901
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Hella	3AL002952-861	12412901
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Hella	3AL002952-867	12412901
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Hella	3FG002924-021	12722901
Hella	3FG002924-021	12722907
Hella	3FG002924-161	12713902
Hella	3FG002924-161	12713901
Hella	3FG002924-171	12723902
Hella	3FG002924-171	12723901
Hella	3FH002924-821	12732901
Hella	3FH002924-821	12732907
Hella	3FH007728-811	12732901
Hella	3FH007728-811	12732907
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Hella	4AZ001879027	53401101
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Hella	4DN008768027	54229002A
Hella	4DN008768031	54229002A
Hella	4DN008768037	54229002A
Hella	4DN008768101	54229002A
Hella	4DN009124011	54407010A
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Hella	4DW003944051	54407008

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Hella	4LZ 961 553 121	13010201
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Hella	4RA003510067	20200001A
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Hella	4RA003510082	20200100A
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Hella	4RA003510117	22200106A
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Hella	4RA003510157	20400000A
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Hella	4RA003510261	20207000
Hella	4RA003510261	20207000A
Hella	4RA003510261	20207100A
Hella	4RA003510267	20207000
Hella	4RA003510267	20207000A
Hella	4RA003510361	20200102A
Hella	4RA003510421	22200030
Hella	4RA003510471	20240073
Hella	4RA003510471	22200030
Hella	4RA003510511	22204013
Hella	4RA003510517	22204013
Hella	4RA003510651	13480201
Hella	4RA003520071	20401000A
Hella	4RA003530001	20200102A
Hella	4RA003530003	20200102A
Hella	4RA003530007	20200102A
Hella	4RA003530021	22204013
Hella	4RA003530031	22204013
Hella	4RA003530038	22204013
Hella	4RA003530051	13480201
Hella	4RA003530081	20206100A
Hella	4RA003530363	20200102A
Hella	4RA003530367	20200102A
Hella	4RA003588001	20206100A
Hella	4RA003588002	20206100A
Hella	4RA003588007	20206100A
Hella	4RA007782001	29200075A
Hella	4RA007782011	29200006A
Hella	4RA007791-01	22200106A
Hella	4RA007791011	20240073
Hella	4RA007791011	22200030
Hella	4RA007791017	22200030

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Hella	4RA007791021	22200030
Hella	4RA007793031	20200000A
Hella	4RA007793031	22204013
Hella	4RA007957001	20400000A
Hella	4RA007957001	22200030
Hella	4RA007957001	22400002B
Hella	4RA907754004	20206100A
Hella	4RA933332101	22200106A
Hella	4RA933332107	22200106A
Hella	4RA933332111	20400100A
Hella	4RA933332117	20400100A
Hella	4RA933332151	20207000
Hella	4RA933332151	20207000A
Hella	4RA933791061	20207000
Hella	4RA933791061	20207000A
Hella	4RA933791067	20207000
Hella	4RA933791067	20207000A
Hella	4RA933791071	20407100A
Hella	4RA933791081	20407100A
Hella	4RA940010134	20207100A
Hella	4RA94001034	20207100A
Hella	4RA965400001	20210100A
Hella	4RA965400017	20210100A
Hella	4RD00350134	20201000A
Hella	4RD003520071	20401100A
Hella	4RD003520074	20401000A
Hella	4RD003520077	20401100A
Hella	4RD003520081	20201100A
Hella	4RD003520091	20401100A
Hella	4RD003520093	20401100A
Hella	4RD003520151	20401103
Hella	4RD003520241	20201101
Hella	4RD003520-25	22200035
Hella	4RD003520257	20201103
Hella	4RD003520567	20201100A
Hella	4RD007783011	29201005
Hella	4RD007794021	13201140
Hella	4RD007794021	20201000A
Hella	4RD007794027	13201140
Hella	4RD007794031	13201140
Hella	4RD007794031	20201100A
Hella	4RD007794041	20201103
Hella	4RD007794047	20201103
Hella	4RD007814011	29201075A
Hella	4RD007814017	29201075A
Hella	4RD007814087	29201075A
Hella	4RD007903011	20401100A
Hella	4RD007903021	20401003
Hella	4RD007903021	20401103
Hella	4RD007903027	20401003
Hella	4RD007903027	20401103
Hella	4RD008566007	20401003
Hella	4RD008566007	29401000
Hella	4RD008566007	29401041
Hella	4RD008566008	20401003
Hella	4RD008566017	20401101
Hella	4RD00856607	29401041
Hella	4RD933332011	20201100A

Hella	4RD933332021	20201103
Hella	4RD933332027	20201103
Hella	4RD933332047	20201100A
Hella	4RD933332061	20401100A
Hella	4RD933332067	20401100A
Hella	4RD933332071	20401100A
Hella	4RD933332077	20401100A
Hella	4RD933332081	20401003
Hella	4RD933332081	20401103
Hella	4RD933332087	20401003
Hella	4RD933332087	20401103
Hella	4RD940020084	20201100A
Hella	4RD940020094	20401100A
Hella	4RK002557001	58227001
Hella	4RP008189001	51204003
Hella	4RP008189041	51223909
Hella	4RP008189051	50205002
Hella	4RP008189051	50205603
Hella	4RV008188091	51299016
Hella	4RV008188161	51216003A
Hella	4RV008188161	51233008A
Hella	4RV008188171	51233001
Hella	4RV008188181	51233001
Hella	4RV008188181	51233011
Hella	4RV008188191	51233011
Hella	5DR004241001	55990020
Hella	5DR004241151	55990020
Hella	5DR004243041	55990001
Hella	5DR004243071	55990001
Hella	5HE009130001	51401004
Hella	5HE009130021	52401004
Hella	5HE009130021	52401004A
Hella	5WG003620021	60201002
Hella	8EW351043221	69201102
Hella	8JA003526002	10485008
Hella	8JA715606001	10485007
Hella	AERB305	55990001

HERTH + BUSS		
Herth + Buss	10896770	20401103
Herth + Buss	10898437	50205002
Herth + Buss	10899655	22200030
Herth + Buss	10899682	22204030A
Herth + Buss	10899873	20401101
Herth + Buss	35000140	55990020
Herth + Buss	35000146	55990001
Herth + Buss	50251194	10070006
Herth + Buss	50251212	10070002
Herth + Buss	50251239	10070007
Herth + Buss	50251882	10070001
Herth + Buss	50290265	10485007
Herth + Buss	50290266	10485008
Herth + Buss	50290304	10050004
Herth + Buss	50290307	10700005
Herth + Buss	50290309	10700004
Herth + Buss	50390212	10700006
Herth + Buss	50390220	10700007
Herth + Buss	56376100	13204201
Herth + Buss	56376101	13404201
Herth + Buss	56376102	13620301
Herth + Buss	56376103	13620302
Herth + Buss	75605020	13010201
Herth + Buss	75605021	13010301
Herth + Buss	75605022	53007006A

Herth + Buss	75605030	13100102
Herth + Buss	75605031	13100103
Herth + Buss	75605032	13200103
Herth + Buss	75605033	13200104
Herth + Buss	75605034	13200203
Herth + Buss	75605035	13200204
Herth + Buss	75605046	54201101
Herth + Buss	75605048	54201101
Herth + Buss	75605078	54201102
Herth + Buss	75605078	54201158
Herth + Buss	75605080	54201136A
Herth + Buss	75605081	54201101
Herth + Buss	75605096	13201103
Herth + Buss	75605113	54201101
Herth + Buss	75605123	53201101
Herth + Buss	75605124	53401101
Herth + Buss	75605125	53201102
Herth + Buss	75605126	53401102
Herth + Buss	75605130	58227001
Herth + Buss	75605132	54401101
Herth + Buss	75605133	54401102
Herth + Buss	75605135	54407009
Herth + Buss	75605137	54407006
Herth + Buss	75605137	54407015
Herth + Buss	75605139	54407008
Herth + Buss	75605142	54407010A
Herth + Buss	75605146	54229002A
Herth + Buss	75605148	54201101
Herth + Buss	75605148	54237001
Herth + Buss	75605151	54225003
Herth + Buss	75605169	54237012
Herth + Buss	75613100	13250200
Herth + Buss	75613101	13450100
Herth + Buss	75613102	22200119
Herth + Buss	75613103	20401101
Herth + Buss	75613104	20400000A
Herth + Buss	75613106	20200000A
Herth + Buss	75613107	20207000A
Herth + Buss	75613108	20240073
Herth + Buss	75613110	20207101A
Herth + Buss	75613111	20200100A
Herth + Buss	75613113	13280999
Herth + Buss	75613113	20200102A
Herth + Buss	75613114	20210100A
Herth + Buss	75613115	20410100A
Herth + Buss	75613117	13403115
Herth + Buss	75613121	20200100A
Herth + Buss	75613122	20400100A
Herth + Buss	75613124	22400117A
Herth + Buss	75613126	20200100A
Herth + Buss	75613129	20200102A
Herth + Buss	75613130	13003499
Herth + Buss	75613137	13480201
Herth + Buss	75613143	22200117A
Herth + Buss	75613144	22400117A
Herth + Buss	75613145	22200035
Herth + Buss	75613149	22204030A
Herth + Buss	75613151	20201100A
Herth + Buss	75613152	20401100A
Herth + Buss	75613153	20201101
Herth + Buss	75613156	20201000A
Herth + Buss	75613157	20401000A
Herth + Buss	75613157	20401003
Herth + Buss	75613164	20401003

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Herth + Buss	75613164	20401103
Herth + Buss	75613168	22200011
Herth + Buss	75613169	22204013
Herth + Buss	75613173	20201103
Herth + Buss	75613174	29201005
Herth + Buss	75613175	29201045
Herth + Buss	75613176	29401000
Herth + Buss	75613177	29201075A
Herth + Buss	75613178	22210036
Herth + Buss	75613180	22210531
Herth + Buss	75613181	22200106A
Herth + Buss	75613184	22200030
Herth + Buss	75613184	22200106A
Herth + Buss	75613186	50237012
Herth + Buss	75613187	20200001A
Herth + Buss	75613187	22200030
Herth + Buss	75613190	29200006A
Herth + Buss	75613191	29200045A
Herth + Buss	75613192	29200075A
Herth + Buss	75613193	29401041
Herth + Buss	75613195	20401100A
Herth + Buss	75613197	13201140
Herth + Buss	75613200	13404101
Herth + Buss	75613202	13405101
Herth + Buss	75613211	20207000
Herth + Buss	75613211	20207000A
Herth + Buss	75613212	20407100A
Herth + Buss	75613215	20200001A
Herth + Buss	75613215	22204030A
Herth + Buss	75613217	20407000A
Herth + Buss	75613220	20206100A
Herth + Buss	75614011	13620302
Herth + Buss	75614012	60201002
Herth + Buss	75614013	60401001A
Herth + Buss	75614017	50237009
Herth + Buss	75614035	51233011
Herth + Buss	75614036	51233001
Herth + Buss	75614037	51233001
Herth + Buss	75614038	51233001
Herth + Buss	75614042	51223909
Herth + Buss	75614048	50237010
Herth + Buss	75614059	51233008A
Herth + Buss	75614061	51233008A
Herth + Buss	75614072	50201004B
Herth + Buss	75614073	51216003A
Herth + Buss	75614077	50205002
Herth + Buss	75614077	50205603
Herth + Buss	75614078	50405001
Herth + Buss	75614079	20230426A
Herth + Buss	75614087	51299016
Herth + Buss	75614111	13620302
Herth + Buss	75614119	51204003
Herth + Buss	75614120	51204003
Herth + Buss	75614121	50205002
Herth + Buss	75614121	50205603
Herth + Buss	75614122	50237013
Herth + Buss	75614129	51401004
Herth + Buss	75614135	52401005A

Herth + Buss	75614141	52404003
Herth + Buss	75614141	52404003A
Herth + Buss	75614146	58209003
Herth + Buss	75614147	61233004
Herth + Buss	75614165	22400002B
Herth + Buss	75614177	20401100A
Herth + Buss	75614179	20201100A
Herth + Buss	75614250	58226608
Herth + Buss	75614309	51799030A
Herth + Buss	75614310	51799029A
Herth + Buss	75614614	13204004
Herth + Buss	75898211	52401004
Herth + Buss	75898719	69200101
Herth + Buss	75898835	69200101
Herth + Buss	75898967	69200107
Herth + Buss	10896755	54201101
Herth + Buss	10898211	51401004

HOLDER		
Holder	019591	54229002A

HONDA		
Honda	39794RSSE01	51799026
Honda	39794RSSE010M1	51799026
Honda	39794RSSE020M1	51799026
Honda	39794RSSE021M1	51799026

HYUNDAI		
Hyundai	9555021002	54201158

INTER HARVESTER		
Inter Harvester	3079037R91	55990020
Inter Harvester	3079123R91	55990020
Inter Harvester	3136411R91	55990001
Inter Harvester	3136411R92	55990001
Inter Harvester	3144046R1	55990001
Inter Harvester	3227093R1	54407006
Inter Harvester	A186189	55990020

ISKRA		
Iskra	10120110	55990020
Iskra	11125003	55990020
Iskra	11125040	55990020
Iskra	11125049	55990020
Iskra	11125073	55990020
Iskra	11125117	55990020
Iskra	11125121	55990020
Iskra	AER1503	55990020
Iskra	AER1527	55990020
Iskra	AER7201	55990020
Iskra	AER7207	55990020
Iskra	NRE121301	55990020

ITALAMEC		
Italamec	101	20201101
Italamec	132	20401100A
Italamec	299	54237001
Italamec	387	54237001
Italamec	491	54237001
Italamec	0167730	13167730A
Italamec	0169200	13169200A
Italamec	0170230	13170230A
Italamec	0254630	13254630
Italamec	141200603	51401009

Italamec	170250NT	13170250A
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IVECO		
Iveco	600261	13404101
Iveco	900030	54407010A
Iveco	01160376	55990001
Iveco	01163008	55990001
Iveco	01164016	20407100A
Iveco	1164018	20401100A
Iveco	1164018	20401105
Iveco	1164019	10485007
Iveco	1164650	10485008
Iveco	1164662	54407010A
Iveco	1164678	54407009
Iveco	01173069	55990020
Iveco	01306557	55990020
Iveco	01308784	55990020
Iveco	02525459	53401101
Iveco	2589161	54407009
Iveco	4069103	54201102
Iveco	4069103	54201158
Iveco	4224067	55990001
Iveco	4224467	55990001
Iveco	4320625	20207000
Iveco	4320625	20207000A
Iveco	4320629	20207000
Iveco	4320629	20207000A
Iveco	4474755	55990020
Iveco	4475269	55990020
Iveco	4731653	55990020
Iveco	4792112	51299016
Iveco	4804050	20401103
Iveco	4804051	20401003
Iveco	4815283	13203120A
Iveco	4864785	10700005
Iveco	5122663	54229002A
Iveco	5125586	54229002A
Iveco	5139526	22200117A
Iveco	5151491	54229002A
Iveco	5154278	54229002A
Iveco	5155318	20201000A
Iveco	5155318	20201100A
Iveco	5158609	20201103
Iveco	5158609	20401100A
Iveco	5158609	20401105
Iveco	7686773	20207000
Iveco	7686773	20207000A
Iveco	8122182	55990001
Iveco	8123625	55990020
Iveco	8168785	10485008
Iveco	8198177	55990001
Iveco	9462703	51299016
Iveco	9927829	55990020
Iveco	9933186	55990020
Iveco	9934791	55990020
Iveco	12336287	10485007
Iveco	32190845	20401100A
Iveco	32190845	20401105
Iveco	41730537	53401102
Iveco	41730589	13480201
Iveco	0000041910906	13290200
Iveco	41910907	13490300
Iveco	42013486	53401101
Iveco	42024467	53007006A

Cross References

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Iveco	42098535	10485008
Iveco	42490291	55990020
Iveco	51514910	54229002A
Iveco	51542780	54229002A
Iveco	82302913	55990020
Iveco	97103573	53401101
Iveco	97103573	54401101
Iveco	98438337	13254630
Iveco	99436137	54407008
Iveco	99474025	20401003
Iveco	412200603	51401009
Iveco	500341925	22204030A
Iveco	5003419250	20200001A
Iveco	5010480216	20200001A
Iveco	5010480216	22204030A
Iveco	7423025000	55990020
Iveco	02471298EE	20401100A
Iveco	02471298EE	20401105
Iveco	1160363EF8976	55990001
Iveco	1160376EF89761	55990001

JAGUAR		
Jaguar	PRC5020	51299016

JOHN DEERE		
John Deere	014375	10485008
John Deere	506655	20206100A
John Deere	507913	58227001
John Deere	507913	58227004
John Deere	57M7182	10485008
John Deere	AL150015	13201140
John Deere	AL150015	20201101
John Deere	AL29657	20201100A
John Deere	AL32891	54229002A
John Deere	AL36100	55990020
John Deere	AL36101	55990020
John Deere	AL55738	10485008
John Deere	AL57418	20201103
John Deere	AL76702	29201075A
John Deere	AL81719	22204013
John Deere	AT31413	55990001
John Deere	AZ24490	55990020
John Deere	AZ26993	53201101
John Deere	AZ26995	10485008
John Deere	AZ26996	20200100A
John Deere	AZ30382	53201101
John Deere	AZ31123	13203120A
John Deere	AZ49989	60201002
John Deere	L35168	10485007

KÄSSBOHRER		
Kässbohrer	74230800	55990001
Kässbohrer	7371066000	54407009
Kässbohrer	7371069000	54407009
Kässbohrer	7371071000	54407006
Kässbohrer	7375112001	10485008
Kässbohrer	7375112002	10485007
Kässbohrer	7375181000	29401041

Kässbohrer	7423018000	55990001
Kässbohrer	7423025000	55990020
Kässbohrer	73752050000	13003499

KHD		
KHD	79520	20201100A
KHD	1145036	29201045
KHD	01164017	20201100A
KHD	01164019	10485007
KHD	1164019	10485007
KHD	01164650	10485008
KHD	1164678	54407009
KHD	2446648	54407008
KHD	02462335	54407006
KHD	2589161	54407009
KHD	04194475	10485008
KHD	04411492	20200001A
KHD	8122160	13201103
KHD	1160363EF8976	55990001
KHD	1160363EF89761	55990001
KHD	T1H7615	55990001

KIA		
Kia	0K011 18811	20207000
Kia	0K011 18811	20207000A

KNAUS		
Knaus	K605929	10485008

KÖGEL		
Kögel	78006	20401100A
Kögel	78006	20401105
Kögel	79520	20201100A

KOMATSU HANOMAG		
Komatsu Hanomag	4211099M91	51427001
Komatsu Hanomag	42U09H1870	10485008
Komatsu Hanomag	42Y-06-H1140	60401001A

KRONE		
Krone	03034630	10485008
Krone	05835410	54229002A

LADA		
Lada	21033726450	54201102
Lada	21033726450	54201158
Lada	21053747010	54201102
Lada	21053747010	54201158
Lada	21083747010	54201101
Lada	21083747010	54201102
Lada	21083747010	54201158
Lada	21083747010	54237001

LAMBORGHINI		
Lamborghini	002193110	51216003A
Lamborghini	002193110	51233008A
Lamborghini	286390030	54229002A
Lamborghini	294290600	55990001
Lamborghini	294295100	55990020
Lamborghini	294390903	55990020
Lamborghini	296195100	55990020

LANCIA		
Lancia	4224067	55990001

Lancia	4224467	55990001
Lancia	4474755	55990020
Lancia	4475269	55990020
Lancia	4475296	55990020
Lancia	4476337	54201102
Lancia	4476337	54201158
Lancia	4731653	55990020
Lancia	4792112	51299016
Lancia	5946920	51299016
Lancia	5946920	51699004
Lancia	5990986	51299016
Lancia	7073503	55990020
Lancia	7074261	55990020
Lancia	7075469	55990020
Lancia	7606542	22204030A
Lancia	8122182	55990001
Lancia	9927829	55990020
Lancia	9933186	55990020
Lancia	9934791	55990020
Lancia	9936532	55990020
Lancia	9940343	55990020
Lancia	9950085	55990020
Lancia	42490291	55990020
Lancia	46438456	51699007
Lancia	51771823	51299012D
Lancia	51888255	51299012D
Lancia	75213456	55990001
Lancia	75218018	55990001
Lancia	82264822	55990001
Lancia	82302913	55990020

LAND ROVER		
Land Rover	YWB10012L	20240073
Land Rover	YWB10027L	20200001A

LIEBHERR		
Liebherr	6001637	10485007
Liebherr	6060115	54407006
Liebherr	6071106	54407008
Liebherr	6200907	10485008
Liebherr	6202284	10485008
Liebherr	6301215	20401103
Liebherr	6301229	10485008
Liebherr	6301423	20410100A
Liebherr	6930211	55990001
Liebherr	606011590	54407006
Liebherr	606011808	53401101
Liebherr	607110608	54407008
Liebherr	630105108	22200030
Liebherr	630105108	22400002B
Liebherr	630122908	10485008
Liebherr	630122990	10485008
Liebherr	630191801	10485008
Liebherr	63126930211	55990001

LOMBARDINI		
Lombardini	21930840	51233008A
Lombardini	1042193084	51233008A
Lombardini	1042193111	51233008A

LUCAS		
Lucas	35053	54298000
Lucas	01221152	55990020
Lucas	21221347	55990020

Cross References

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Lucas	21221373	55990020
Lucas	21931009	55990020
Lucas	212214411	55990020
Lucas	HDC102	51299016
Lucas	HDC120	51299016
Lucas	SFB130	54298000
Lucas	UCB400	55990020
Lucas	UCB412	55990020

MAGIRUS-DEUTZ		
Magirus-Deutz	01160363	55990001
Magirus-Deutz	01160376	55990001
Magirus-Deutz	4792112	51299016
Magirus-Deutz	42484638	55990020

MAGNETI MARELLI		
Magneti Marelli	4350500	10700007

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MAN	39900580029	20207000
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MAN	51256017037	55990001
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MAN	81253100016	54407008
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MAN	81253100034	54407006
MAN	81253106012	54401101
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MAN	81253106039	54407010A
MAN	81253106043	54407010A
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MAN	81254350045	10485007
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MAN	81256016020	55990020
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MAN	81259020207	22200030
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MAN	81259020242	60401001A
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MAN	81259020473	20407100A
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MAN	82259020042	53401101
MAN	85200012041	54407008
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MAN	88259026005	20401103
MAN	90801101270	55990001
MAN	90816160126	54407009
MAN	90816161281	54401101
MAN	90816161282	53201101
MAN	90816263186	10485007

MASSEY FERGUSON		
Massey Ferguson	3188023M1	55990020
Massey Ferguson	3387326M2	22204013
Massey Ferguson	3539335M92	20207000
Massey Ferguson	3539335M92	20207000A
Massey Ferguson	3615652M1	13201140
Massey Ferguson	3617865M1	54229002A
Massey Ferguson	4272431M1	29201075A
Massey Ferguson	4272432M1	13201140

MAZDA		
Mazda	N3M118821	20200001A
Mazda	N3M118821	22204030A

MERCEDES-BENZ		
Mercedes-Benz	0005429719	22200117A
Mercedes-Benz	0005451767	13290200
Mercedes-Benz	0005455505	20201000A
Mercedes-Benz	0005458305	20201000A
Mercedes-Benz	0015444832	54201102
Mercedes-Benz	0015445132	53007006A
Mercedes-Benz	0015446932	54407009
Mercedes-Benz	0025440632	54407009
Mercedes-Benz	0025444832	54201102

Mercedes-Benz	0025448132	54407009
Mercedes-Benz	0025448632	54201102
Mercedes-Benz	0025449132	54201102
Mercedes-Benz	0025449832	54201102
Mercedes-Benz	A0000005717	10485008
Mercedes-Benz	A0001548506	55990001
Mercedes-Benz	A0005420919	20210100A
Mercedes-Benz	A0005429719	22200030
Mercedes-Benz	A0005451767	13290200
Mercedes-Benz	A0005451867	13490200
Mercedes-Benz	A0005453516	51799030A
Mercedes-Benz	A0005453616	51799029A
Mercedes-Benz	A0005455405	20401000A
Mercedes-Benz	A0005455405	20401100A
Mercedes-Benz	A0005455505	20201100A
Mercedes-Benz	A0005455805	20401003
Mercedes-Benz	A0005455805	20401103
Mercedes-Benz	A0005457205	20407000A
Mercedes-Benz	A0005457205	20407100A
Mercedes-Benz	A0005458305	20201100A
Mercedes-Benz	A0005458405	20401000A
Mercedes-Benz	A0005458405	20401100A
Mercedes-Benz	A0005459005	20401100A
Mercedes-Benz	A0005459005	20401105
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Mercedes-Benz	A0011548506	55990001
Mercedes-Benz	A0011549206	55990001
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Mercedes-Benz	A0015310260	20401100A
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Mercedes-Benz	A0015421119	20407100A
Mercedes-Benz	A0015422119	20401100A
Mercedes-Benz	A0015422119	20401105
Mercedes-Benz	A0015423219	20207000
Mercedes-Benz	A0015423219	20207000A
Mercedes-Benz	A0015425419	13203120A
Mercedes-Benz	A0015425619	20407000A
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Mercedes-Benz	A0015444532	53201101
Mercedes-Benz	A0015445432	54407010A
Mercedes-Benz	A0015445732	54407006
Mercedes-Benz	A0015449132	53201101
Mercedes-Benz	A0015451005	20401100A
Mercedes-Benz	A0015451005	20401105
Mercedes-Benz	A0015452705	50237010
Mercedes-Benz	A0015455605	51401004
Mercedes-Benz	A0015455605	52401004
Mercedes-Benz	A0015455605	52401004A
Mercedes-Benz	A0018204710	53401101
Mercedes-Benz	A0021540606	55990020
Mercedes-Benz	A0021541506	55990001
Mercedes-Benz	A0021541806	55990020

Cross References

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Mercedes-Benz	A0021542006	55990001
Mercedes-Benz	A0021542506	55990020
Mercedes-Benz	A0021542806	55990001
Mercedes-Benz	A0021542906	55990001
Mercedes-Benz	A0021543006	55990001
Mercedes-Benz	A0021543206	55990020
Mercedes-Benz	A0021543606	55990001
Mercedes-Benz	A0021545806	55990020
Mercedes-Benz	A0021546206	55990001
Mercedes-Benz	A0021547406	55990001
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Mercedes-Benz	A0025422719	29401041
Mercedes-Benz	A0025422819	29201045
Mercedes-Benz	A0025423019	29401041
Mercedes-Benz	A0025427219	22200030
Mercedes-Benz	A0025440332	54407010A
Mercedes-Benz	A0025440532	54407006
Mercedes-Benz	A0025440532	54407010A
Mercedes-Benz	A0025441332	13201103
Mercedes-Benz	A0025441332	54201158
Mercedes-Benz	A0025443732	54201101
Mercedes-Benz	A0025443732	54201158
Mercedes-Benz	A0025443732	54237001
Mercedes-Benz	A0025443732	54237012
Mercedes-Benz	A0025444832	54201101
Mercedes-Benz	A0025444832	54201158
Mercedes-Benz	A0025444832	54237001
Mercedes-Benz	A0025444832	54237012
Mercedes-Benz	A0025445432	53201101
Mercedes-Benz	A0025445532	53401101
Mercedes-Benz	A0025445532	54401101
Mercedes-Benz	A0025447932	54407008
Mercedes-Benz	A0025448032	54407006
Mercedes-Benz	A0025448032	54407008
Mercedes-Benz	A0025448032	54407010A
Mercedes-Benz	A0025448332	54401101
Mercedes-Benz	A0025448432	54401102
Mercedes-Benz	A0025448532	13201103
Mercedes-Benz	A0025448532	54201158
Mercedes-Benz	A0025448632	54201101
Mercedes-Benz	A0025448632	54201158
Mercedes-Benz	A0025448632	54237001
Mercedes-Benz	A0025448632	54237012
Mercedes-Benz	A0025449132	54201101
Mercedes-Benz	A0025449132	54201158
Mercedes-Benz	A0025449132	54237001
Mercedes-Benz	A0025449232	13201103
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Mercedes-Benz	A0025449432	54401101
Mercedes-Benz	A0025449532	53401102
Mercedes-Benz	A0025449532	54401102
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Mercedes-Benz	A0025449732	54401102
Mercedes-Benz	A0025449832	54201101
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Mercedes-Benz	A0025449832	54237001
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Mercedes-Benz	A0075459932	54201158
Mercedes-Benz	A0145426717	53201101
Mercedes-Benz	A0195450232	54201158
Mercedes-Benz	A0195456932	51799029A
Mercedes-Benz	A0255452832	51799030A
Mercedes-Benz	A0255452932	51799029A
Mercedes-Benz	A0285454032	51799029A
Mercedes-Benz	A3455477002	55990001
Mercedes-Benz	A3502648601	20401100A
Mercedes-Benz	A3502648601	20401105
Mercedes-Benz	A4615450324	60401001A
Mercedes-Benz	A4615450432	59409001A
Mercedes-Benz	A46354505024	60201002
Mercedes-Benz	A6298210031	10485008
Mercedes-Benz	A6385420019	61233004
Mercedes-Benz	A6385450028	10485008
Mercedes-Benz	A6461536579	51799030A
Mercedes-Benz	A6461538491	51799030A
Mercedes-Benz	A6489000000	51799029A
Mercedes-Benz	A6489000100	51799029A
Mercedes-Benz	A6519001300	51799056B
Mercedes-Benz	A6519002203	51799056B
Mercedes-Benz	A6519002303	51799070D
Mercedes-Benz	A6519003103	51799070D
Mercedes-Benz	A6519003802	51799070D
Mercedes-Benz	A6519008802	51799056B
Mercedes-Benz	A6519008902	51799070D
Mercedes-Benz	A7111850741	10485007
Mercedes-Benz	A7211851351	10485008
Mercedes-Benz	A7375181000	29401041
Mercedes-Benz	A7731071000	54407006
Mercedes-Benz	A0009054202	64799026
Mercedes-Benz	A0009053902	64799029
Mercedes-Benz	A0009054002	64799032
Mercedes-Benz	A2129052702	64799097
Mercedes-Benz	A0009054302	64799101
Mercedes-Benz	A6398200597	64799003
Mercedes-Benz	A0038203097	64799030

MEYLE		
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Meyle	0148800005	51799030A
Meyle	1008000015	51233011
Meyle	1008009009	50237013
Meyle	1008009014	51233001
Meyle	1008300003	50237012
Meyle	1008300016	29201075A
Meyle	1009370001	22204013
Meyle	1009510001	22200030
Meyle	1009530012	54201101

MINI		
Mini	7794967	51799080A
Mini	12217794967	51799080A

MITSUBISHI		
Mitsubishi	1860A499	51799060
Mitsubishi	1860A680	51252002
Mitsubishi	1860C135	51799080A

MONARK		
Monark	082601006	55990001
Monark	082962007	55990001
Monark	082966090	55990020
Monark	090200052	54201101
Monark	090210001	54229002A
Monark	090220024	20200100A
Monark	090220024	20400100A
Monark	090270012	20207000
Monark	090270012	20207000A
Monark	090270024	20407100A
Monark	090280012	20201100A
Monark	090280024	20401100A
Monark	090280204	20401003
Monark	090280204	20401103
Monark	090285024	22400117A
Monark	090290001	51233001
Monark	090290002	51233011
Monark	090290003	51233008A
Monark	090295005	10700007

NAGARES		
Nagares	75613215	22204030A
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Nagares	ITA/4-12	54201102
Nagares	ITE324	54401101
Nagares	ITE324	54401102
Nagares	ITES324	54401101
Nagares	ITES324	54401102
Nagares	ITG/3-12	54201101
Nagares	ITG/4-12	13201103
Nagares	ITG312	54201101
Nagares	ITG324	54401101
Nagares	ITG324	54401102
Nagares	ITGS/3-12	54237001
Nagares	ITH 2	13010201
Nagares	ITM10012	53201101
Nagares	ITRC6	54407006
Nagares	MRIR/24-10	29401041
Nagares	MRIS/12-20	29201005
Nagares	RDPS/5-24	13403115
Nagares	RLAC/4-12D	22204030A
Nagares	RLAC/4-12R	13480201
Nagares	RLACS/4-12R	22204013
Nagares	RLACS/4-12R	22210036
Nagares	RLDP/12	20206100A
Nagares	RLP/52-12	20201000A
Nagares	RLP/52-12	20201100A
Nagares	RLP/52-24	20401100A
Nagares	RLP/5-24	20407100A
Nagares	RLP412	20200100A
Nagares	RLP424	20400100A
Nagares	RLP512D	20210100A
Nagares	RLP5212D	20201103
Nagares	RLP5212R	20201101

Cross References

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Nagares	RLP5224	20401100A
Nagares	RLP5224D	20401103
Nagares	RLP5224R	20401101
Nagares	RLPA412	20210100A
Nagares	RLPAS/4-12	22200030
Nagares	RLPS/4-12R	20240073
Nagares	RLPS/4-12R	22200030
Nagares	RLPS/5-12R	20207101A
Nagares	RLPS/5-24	20407000A
Nagares	RLPS412R	20200001A
Nagares	RLPS424	20400000A
Nagares	RLPS512	20207000
Nagares	RLPS512	20207000A
Nagares	RLPS5224	20401000A
Nagares	RLPS5224D	20401003
Nagares	RLR/3-12	20230426A
Nagares	RP/100-24	13450100
Nagares	RP/180-12	13250200
Nagares	RPLS412	20200000A
Nagares	TPF612	51216003A
Nagares	TPPSS/7-12	51233011
Nagares	TPPSS7-12	51233001
Neoplan	11025727	10485008
Neoplan	11027107	10485008
Neoplan	11029165	54407008
Neoplan	150552100	20407100A
Neoplan	150554800	10485008
Neoplan	150802301	10485008

NISSAN		
Nissan	01201922	55990020
Nissan	039029670	55990001
Nissan	7580000512	51699004
Nissan	1067BN700	51699003
Nissan	11067-JD50C	51252002
Nissan	25230-80A0A	51252002
Nissan	2573016B00	54201158
Nissan	77001-15078	51699003

OPEL		
Opel	1204226	55990001
Opel	1204229	55990001
Opel	1204230	55990001
Opel	1204231	55990001
Opel	1204235	55990001
Opel	1204244	55990020
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Opel	1226929	54201102
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Opel	4400385	51699001
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Opel	4409990	51699003

Opel	4419200	51252002
Opel	4506156	51699003
Opel	6235240	51799014
Opel	6235303	51799018
Opel	6238516	22210036
Opel	6238535	22204030A
Opel	6238543	22204013
Opel	6238618	58226608
Opel	6238626	22200030
Opel	6238628	22204013
Opel	09148292	54201101
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Opel	90124673	51223909
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Opel	90214673	51223909
Opel	090225811	50205002
Opel	90225811	50205002
Opel	90225811	50205603
Opel	0090228928	51216003A
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Opel	91149190	22204030A
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Opel	V03436400	20401100A
Opel	V03436400	20401105
Opel	V43160800	53201101

PEUGEOT		
Peugeot	598111	51299016
Peugeot	598111	51699004
Peugeot	598115	51299016
Peugeot	598115	51699004
Peugeot	598115	51699008

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Peugeot	598116	51299040
Peugeot	598116	51699004
Peugeot	598116	51799040
Peugeot	598120	51299040
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Peugeot	598124	51699007
Peugeot	598126	51699008
Peugeot	598127	51699008
Peugeot	598138	51699008
Peugeot	598138	51799043
Peugeot	598140	51252002
Peugeot	598143	51799043
Peugeot	655533	20200001A
Peugeot	655544	13620302
Peugeot	5416400	10485007
Peugeot	91515869	51699004
Peugeot	9151586980	51299016
Peugeot	9251586780	51299016
Peugeot	9251586780	51699004
Peugeot	9251586980	51299016
Peugeot	9251586980	51699004
Peugeot	9609843280	13620302
Peugeot	9616280080	51699008
Peugeot	9616582380	51699008
Peugeot	9616582480	51699007
Peugeot	9640469680	51252002
Peugeot	9666671780	51799080A
Peugeot	9802424080	51799080A
Peugeot	9803299780	51799080A
Peugeot	9809931580	51799080A

PIAGGIO		
Piaggio	290042	22200117A
Piaggio	293580	22200117A
Piaggio	580284	51233008A

PONTIAC		
Pontiac	90055543	54201158

PORSCHE		
Porsche	171937503	20200100A
Porsche	171937503	22200030
Porsche	171937503	22200106A
Porsche	191951113	12412906
Porsche	535951113	12412906
Porsche	90160320301	55990001
Porsche	90160320600	55990001
Porsche	90160320601	55990001
Porsche	90160320602	55990001
Porsche	90161830302	54201102
Porsche	90161830302	54201158
Porsche	91161510301	20200102A
Porsche	91179961360	10485007
Porsche	91461241500	10485008
Porsche	91461830310	54201102
Porsche	91461830310	54201158

Porsche	91461830311	54201102
Porsche	91461830311	54201158
Porsche	92861511700	20200100A
Porsche	92861511702	20210100A
Porsche	94461511900	13201140
Porsche	94461511900	20201101
Porsche	95561502500	13204004
Porsche	99361513500	20200001A
Porsche	99361513500	22204030A
Porsche	99965700890	20200001A
Porsche	99965700890	22204030A
Porsche	99965700990	20207000
Porsche	99965700990	20207000A
Porsche	111953227D	54201101
Porsche	111953227D	54237001
Porsche	111953227D	54237012
Porsche	141951253B	22200030
Porsche	191953227A	54237012
Porsche	1J0951209	12412906
Porsche	311963141B	20200100A
Porsche	431951253A	22200030
Porsche	6N0951101	12412906
Porsche	803941587B	22200030
Porsche	8N0951113	12412906

PUCH		
Puch	7111850741	10485007
Puch	7211851351	10485008
Puch	71618502101	51233001

RENAULT		
Renault	0037960200	13201103
Renault	5000255789	53201101
Renault	5000273021	55990001
Renault	5000287954	20401003
Renault	5000287954	20401103
Renault	5000409318	20201000A
Renault	5000409318	20201100A
Renault	5000560865	20407000A
Renault	5000560865	20407100A
Renault	5000589583	54407008
Renault	5000589597	54407009
Renault	5000786249	10485008
Renault	5001001392	55990001
Renault	5001848850	20400000A
Renault	5430025965	20401100A
Renault	5430025965	20401105
Renault	5516038255	54407006
Renault	5516038407	20201000A
Renault	5516038407	20201100A
Renault	5516039947	53007006A
Renault	7700100703	51699002
Renault	7700109860	51699001
Renault	7700111525	51699002
Renault	7700115078	51699003
Renault	7700412030	13620302
Renault	7700702747	51699005
Renault	7700709873	10485007
Renault	7700733390	51699004
Renault	7700751089	51699005
Renault	7700757776	51699005
Renault	7700790579	51699006
Renault	7700851443	51699006
Renault	7700856789	51699006

Renault	7700863454	51699006
Renault	7700867374	51699006
Renault	7701014809	55990001
Renault	7701348734	51699006
Renault	7701375547	20201100A
Renault	7702087784	51699005
Renault	8200859243	51252002
Renault	9611751080	51299040
Renault	9611751080	51799040
Renault	5000 55685	55990001

ROLLS-ROYCE		
Rolls-Royce	UD71214	29201045

ROVER		
Rover	NCJ100110	51699008
Rover	PCR5020	51699004
Rover	PRC5020	51299016
Rover	PRC5020	51699005

SAAB		
SAAB	813532	10485007
SAAB	4069985	54201101
SAAB	4069985	54201158
SAAB	4069985	54237001
SAAB	7326176	55990001
SAAB	7334634	55990001
SAAB	8522310	20200100A
SAAB	8536401	13203120A
SAAB	8553463	60201002
SAAB	8558306	55990020
SAAB	8559577	55990020
SAAB	8559585	55990020
SAAB	8581779	55990020
SAAB	8583627	54201158

SAME		
Same	000871074	51699005

SCANIA		
Scania	68463	55990001
Scania	228602	20401100A
Scania	229511	55990001
Scania	229527	53201101
Scania	233200	53401101
Scania	233201	10485008
Scania	233206	10485007
Scania	235940	20400000A
Scania	235940	20400100A
Scania	243460	20401000A
Scania	243460	20401100A
Scania	243462	20400000A
Scania	243462	20400100A
Scania	263903	55990001
Scania	285500	22400117A
Scania	383055	10485008
Scania	389482	54407008
Scania	400782	20401000A
Scania	400782	20401100A
Scania	433294	20407100A
Scania	1320483	29401000
Scania	1320483	29401041
Scania	8517088	54201102
Scania	8517088	54201158

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Scania	8533176	13201140
Scania	8533176	20201101
Scania	8553463	60201002
Scania	8558306	55990020
Scania	8572463	54201102
Scania	8572463	54201158

SCHMITZ CARGOBULL		
Schmitz Cargobull	1104	20201103
Schmitz Cargobull	2407	10485008

SEAT		
Seat	0003894469	55990020
Seat	0003899291	55990020
Seat	021903803	55990001
Seat	165906381	50237013
Seat	171937503	20200100A
Seat	191951113	12412906
Seat	431953231	13201103
Seat	535951113	12412906
Seat	1389921000	51699005
Seat	038907281B	51799060
Seat	038907281D	51799026
Seat	04L907281	51799026
Seat	04L907282	51799060
Seat	04L907283	51799062
Seat	0581CR01	51299016
Seat	0581CR01	51699004
Seat	0581CR1	51299016
Seat	191906383C	13204004
Seat	191953227A	54201101
Seat	191953227A	54237001
Seat	191953227A	54237012
Seat	1H0951213	12422906
Seat	1J0919506M	69200107
Seat	1J0951209	12412906
Seat	3A0927181	61233004
Seat	6N0951101	12412906
Seat	7M0951253C	29201075A
Seat	8N0951113	12412906
Seat	HB90600000	55990001
Seat	IH0953227	54237012
Seat	NG98102329	55990020

SIEMENS		
Siemens	5WK 1684	54201101
Siemens	5WK1624	51233008A
Siemens	5WK1640	60201002
Siemens	5WK1684	54201101
Siemens	5WK1743	51233001
Siemens	5WK2203	51223909
Siemens	5WK2302	51233001
Siemens	5WK2305	51233001
Siemens	5WK2306	51233001
Siemens	V23074-A1001-A403	29201075A
Siemens	V23074-A2002-A403	29401041

Siemens	V23134-A0052-C243	20201100A
Siemens	V23134-A0052-C643	20201100A
Siemens	V23134-A0053-C243	20401100A
Siemens	V23134-A1052-C243	20201100A
Siemens	V23134-A1052-C643	20201100A
Siemens	V23134-A1052-X294	13201140
Siemens	V23134-A1052-X299	20201103
Siemens	V23134-A1053-C643	20401100A
Siemens	V23134-A1053-X349	20401003
Siemens	V23134-A1053-X349	20401103
Siemens	V23134-B0052-C242	20200100A
Siemens	V23134-B0052-C242	22200106A
Siemens	V23134B0052X269	22200030
Siemens	V23134-B0052-X269	22204030A
Siemens	V23134-B0053-C242	20400100A
Siemens	V23134-B1052-C242	20200100A
Siemens	V23134-B1052-C242	22200106A
Siemens	V23134-B1052-C642	20200100A
Siemens	V23134-B1052-C642	20210100A
Siemens	V23134-B1052-C642	22200106A
Siemens	V23134-B1053-C242	20400100A
Siemens	V23134-B1053-C642	20400100A
Siemens	V23134-C0052-C242	20207000
Siemens	V23134-C0052-C242	20207000A
Siemens	V23134-C0053-C242	20407100A
Siemens	V23134-C0053-G242	20407100A
Siemens	V23134-C1052-C242	20207000
Siemens	V23134-C1052-C242	20207000A
Siemens	V23134-C1052-C642	20207000
Siemens	V23134-C1052-C642	20207000A
Siemens	V23134-C1053-C242	20407100A
Siemens	V23134-C1053-C642	20407100A
Siemens	V23134-J0052-X429	22204013
Siemens	V23134-J0053-D642	22400117A
Siemens	V23134-J1053-D242	22400117A

SKODA		
Skoda	021903803	55990001
Skoda	115930631	10485008
Skoda	191951113	12412906

Skoda	535951113	12412906
Skoda	038907281B	51799060
Skoda	038907281D	51799026
Skoda	04L907281	51799026
Skoda	04L907282	51799060
Skoda	04L907283	51799062
Skoda	191906383C	13204004
Skoda	191953227A	54237012
Skoda	1H0951213	12422906
Skoda	1J0919506M	69200107
Skoda	1J0951209	12412906
Skoda	3A0927181	61233004
Skoda	6N0951101	12412906
Skoda	7M0951253C	29201075A
Skoda	8N0951113	12412906
Skoda	IH0953227	54237012

STEYR		
Steyr	614090017	55990001
Steyr	680770267	10485007
Steyr	30800090740	55990020
Steyr	35700580021	54229002A
Steyr	39700580025	20201100A
Steyr	61000090742	55990020
Steyr	71618502101	51233001
Steyr	81254350045	10485007
Steyr	81254350888	10485008
Steyr	99000580236	20401100A
Steyr	99000580236	20401105
Steyr	99000580238	20401000A
Steyr	99000580238	20401100A
Steyr	99100582056	10485008
Steyr	527180178000	10485008
Steyr	589991022700	54407006
Steyr	589991122100	54407008
Steyr	2812543508881	10485008
Steyr	609F090017	55990001
Steyr	609F090019	55990001
Steyr	F181900010020	55990001

STRIBEL		
Stribel	890654	54201102
Stribel	896499	60201002
Stribel	896511	54201101
Stribel	896725	53401102
Stribel	896753	54201101
Stribel	896755	54201101
Stribel	896765	53401101
Stribel	896767	54201101
Stribel	896768	53401102
Stribel	896770	20401003
Stribel	896770	20401103
Stribel	899024	51233011
Stribel	899052	51233008A
Stribel	899107	51233001
Stribel	899628	20201100A
Stribel	899629	20207000
Stribel	899629	20207000A
Stribel	899629	22200106A
Stribel	899654	20200001A
Stribel	899654	20240073
Stribel	899654	22200030
Stribel	899676	22200106A
Stribel	899726	20200100A

Cross References

Vehicle Brand	Reference No.	Wehrle No.
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Stribel	899749	20200100A
Stribel	899749	20210100A
Stribel	899754	20200000A
Stribel	899754	20200100A
Stribel	899754	22200106A
Stribel	899760	20207000
Stribel	899760	20207000A
Stribel	899770	20200100A
Stribel	899791	20401100A
Stribel	899793	20401100A
Stribel	899796	20407100A
Stribel	899797	20401003
Stribel	899797	20401103
Stribel	899802	13201140
Stribel	899802	20201101
Stribel	899804	20207000
Stribel	899804	20207000A
Stribel	899810	20400100A
Stribel	899812	20207000
Stribel	899812	20207000A
Stribel	899839	20401000A
Stribel	899839	20401100A
Stribel	899840	20400100A
Stribel	899850	13201140
Stribel	899873	20400100A
Stribel	899873	20401101
Stribel	899912	22400117A
Stribel	75899089	51799030A
Stribel	75899090	51799029A
Stribel	895073000	51233008A
Stribel	898405000	50205002
Stribel	899052000	51233008A
Stribel	899089000	51799030A
Stribel	899090000	51799029A
Stribel	899102000	51233008A
Stribel	899121000	51233008A
Stribel	899125000	51233008A
Stribel	899145000	51233001
Stribel	899169000	51233011
Stribel	899188000	51233011
Stribel	899673000	13201140
Stribel	899773000	20210100A
Stribel	899794000	20201100A
Stribel	899802000	13201140
Stribel	899936000	20201100A

SUZUKI		
Suzuki	38850-55K00	51299012D

TALBOT		
Talbot	0043269200	55990020
Talbot	9121586980	51299016
Talbot	9151586980	51299016
Talbot	9251586780	51299016
Talbot	9251586980	51299016
Talbot	B515867	51299016

TOYOTA		
Toyota	2771098001	55990001
Toyota	8198012070	54201158

TRANSPO		
Transpo	IB350	55990020

TRIUMPH		
Triumph	PRC5020	51299016

TYCO		
Tyco	153259-3	10070001
Tyco	42282-1	10070002

UNIC-SIMCA		
Unic-Simca	001164650	10485008
Unic-Simca	009927829	55990020
Unic-Simca	0011160363	55990001

VALEO		
Valeo	78700	55990001
Valeo	097163	55990001
Valeo	97163	55990001
Valeo	102696	51299016
Valeo	201261	54201101
Valeo	201263	54201101
Valeo	245603	51299016
Valeo	245607	51233001
Valeo	245615	51233019
Valeo	245622	51799043
Valeo	505043	55990001
Valeo	505055	55990020
Valeo	601036	13201140
Valeo	601063	20200100A
Valeo	601253	20200100A
Valeo	601253	22200106A
Valeo	601484	20210100A
Valeo	601572	22204030A
Valeo	611000	20200100A
Valeo	611000	20207000
Valeo	611000	20207000A
Valeo	611000	22200106A
Valeo	611004	20200100A
Valeo	611004	20210100A
Valeo	611005	20400100A
Valeo	611009	20401100A
Valeo	611016	20207000
Valeo	611016	20207000A
Valeo	611099	10700007
Valeo	611100	54201101
Valeo	611102	54201102
Valeo	611114	54407006
Valeo	611115	54407008
Valeo	643523	20401100A
Valeo	643608	20200100A
Valeo	643819	22200030
Valeo	71758600	50237010
Valeo	73103402	51299016
Valeo	73105002	51299016
Valeo	NB411	55990020
Valeo	NC328	55990001

VAUXHALL		
Vauxhall	091108750	51216003A

VEMO		
Vemo	V15-71-0002	20240073
Vemo	V15710004	50237010
Vemo	V15-71-0005	13204004
Vemo	V15710006	50237009
Vemo	V15710007	22204013
Vemo	V15710015	51233011
Vemo	V15710017	50237013
Vemo	V15710019	50237012
Vemo	V15710021	51233001
Vemo	V15-71-0035	69200107
Vemo	V15-71-011	54201101
Vemo	V30-71-0030	51799030A
Vemo	V30-71-0031	51799029A
Vemo	V40710001	51233008A
Vemo	V40710002	50205002
Vemo	V40-71-0006	29200075A

VOLVO		
Volvo	241534	55990001
Volvo	241808	55990001
Volvo	241960	55990001
Volvo	244332	55990020
Volvo	246585	55990001
Volvo	263230	20210100A
Volvo	266941	55990001
Volvo	530165	55990001
Volvo	530878	55990001
Volvo	531914	55990001
Volvo	588950	55990001
Volvo	692061	55990020
Volvo	841177	20200100A
Volvo	946556	10485008
Volvo	1128697	20207000
Volvo	1128697	20207000A
Volvo	1210124	54201102
Volvo	1210124	54201158
Volvo	1214008	54201102
Volvo	1214008	54201158
Volvo	1214719	55990001
Volvo	1215737	54201158
Volvo	1234519	55990001
Volvo	1235232	54201158
Volvo	1235893	20207000
Volvo	1235893	20207000A
Volvo	1259615	54201101
Volvo	1259615	54201158
Volvo	1259615	54237012
Volvo	1259925	20207000
Volvo	1259925	20207000A
Volvo	1259925	22200030
Volvo	1259925	22200106A
Volvo	1259926	20201000A
Volvo	1259926	20201100A
Volvo	1307066	54201158
Volvo	1308030	55990001
Volvo	1323317	13201103
Volvo	1323317	54201158
Volvo	1324492	20201103
Volvo	1324617	55990020
Volvo	1324749	13203120A
Volvo	1501687	54407006
Volvo	1501832	20207000

Cross References

Vehicle Brand	Reference No.	Wehrle No.
Volvo	1501832	20207000A
Volvo	1501833	20407000A
Volvo	1501833	20407100A
Volvo	1504951	20401000A
Volvo	1504951	20401100A
Volvo	1573780	54407006
Volvo	1578869	54407008
Volvo	1582410	54407006
Volvo	1582411	54407010A
Volvo	2239940	53401101
Volvo	2415349	55990001
Volvo	2552008	53401101
Volvo	2813699	13480201
Volvo	2813702	13280999
Volvo	2813702	20200102A
Volvo	3093031	29401041
Volvo	3279419	54201158
Volvo	3309816	55990001
Volvo	3464104	22200117A
Volvo	3542997	13280999
Volvo	3542997	20200102A
Volvo	3770118	55990001
Volvo	4780950	10485008
Volvo	4786490	10485007
Volvo	4786862	10485007
Volvo	4787201	54407008
Volvo	4803262	54229002A
Volvo	4803798	53401101
Volvo	5080042	10485008
Volvo	5241022	54401101
Volvo	6039947	53007006A
Volvo	6212039	55990001
Volvo	8692616	51252002
Volvo	11087239	53401102
Volvo	11087812	54401102
Volvo	11305462	60201002
Volvo	13946556	10485008
Volvo	14026371	20401103
Volvo	20732168	10485008
Volvo	21891605	10485008
Volvo	28015029	10700005
Volvo	28015029	10700007
Volvo	28024729	22400117A
Volvo	28058151	22200117A
Volvo	31312227	51799080A
Volvo	31422154	51799080A
Volvo	34025723	54401101
Volvo	34470062	51233008A
Volvo	36501116	51216003A
Volvo	43733670	20200102A
Volvo	20021891508	54201101
Volvo	20021891508	54237012
Volvo	20043732011	20201000A
Volvo	20043732011	20201100A
Volvo	30005080042	10485008
Volvo	111953227D	54237012
Volvo	31339994	64799994

VW		
VW	021903803	55990001
VW	028903803	55990001
VW	052903803	55990020
VW	053903803	55990020
VW	059903803	55990001
VW	063903803	55990020
VW	111941521	54201158
VW	113953227	54201101
VW	113953227	54201158
VW	113953227	54237001
VW	141951253	20210100A
VW	165906381	50237013
VW	171937503	20200100A
VW	171937503	22200106A
VW	171937503	22204013
VW	183951253	20400000A
VW	183951253	20400100A
VW	191937503	22200030
VW	191937503	22204013
VW	191937503	22204030A
VW	191951113	12412906
VW	191955531	60201002
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VW	289038031	55990020
VW	311941583	54201158
VW	321911261	51233011
VW	321937501	10485008
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VW	431455531	20200100A
VW	431951254	20200001A
VW	431951254	20240073
VW	431951254	22200030
VW	431953231	13201103
VW	431953231	54201158
VW	431959231	13201103
VW	443911261	51233001
VW	535951113	12412906
VW	690937503	22200030
VW	690955531	60401001A
VW	803941587	22200030
VW	893911261	51233001
VW	1119415212	54201158
VW	1139532271	54201158
VW	1139532272	54201158
VW	3119415831	54201158
VW	3259038031	55990020
VW	021903803A	55990001
VW	028903803A	55990020
VW	038907281B	51799060
VW	038907281D	51799026
VW	043903803B	55990001
VW	043903803E	55990001
VW	049903803B	55990020
VW	049903803C	55990020
VW	049903803E	55990020
VW	049903803EF	55990020
VW	049903803F	55990020
VW	04L907281	51799026
VW	04L907282	51799060
VW	04L907283	51799062
VW	052903803A	55990020
VW	053903803B	55990020

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Vehicle Brand	Reference No.	Wehrle No.
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Wehrle	70REA023	22400117A
Wehrle	70REA367	22400117A

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Wehrle	31507	54401102

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