

## General Information Relays/Flasher Units

### General Information on Relays/Flasher-Units

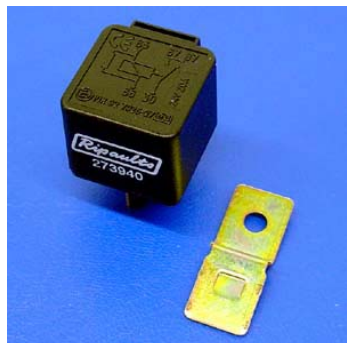
The range of 'RIPCA RIPALTS' relays and flasher units consists of the following products:

1. Micro Relays
2. Mini Relays
3. High Performance Relays
4. Flasher Units

The Mini Relays are supplied with a loose metal bracket. This means you now only have to stock one part number instead of 2.

Most of the items are homologated in conformity with DIR.95/54 and Reg.n.10 ECE-ONU emend.02 for the automotive market.

Most of the Micro Relays are sealed.



Art number Relay w. bracket



Art number Box of 10 relays



Art number Relays with fuse



Art number Double Relays

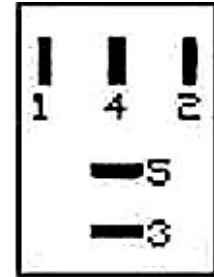
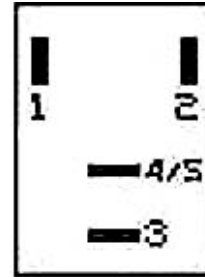


Art number High Performance

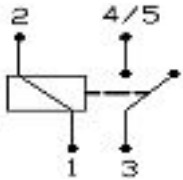


Art number LED Flasher Unit

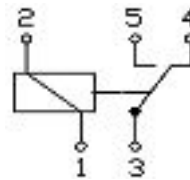
**RIPCA/RIPAULTS - Micro Relays**



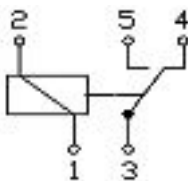
S1 - 4 pin    S2 - 5 pin



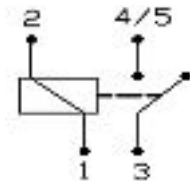
Art number 2848  
Contact Type: Normally Open  
Volt: 12V-25A  
Term.Config.: 4 pin - 2x2,8 & 2x6,3mm  
(BMW & Ford Models)  
Circ.Diagr.: S1  
Component:



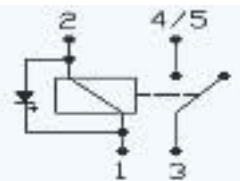
Art number 2850  
Contact Type: Change Over  
Volt: 12V-15/25A  
Term.Config.: 5 pin - 3x2,8 & 2x6,3mm  
(BMW & Ford Models)  
Circ.Diagr.: S2  
Component:



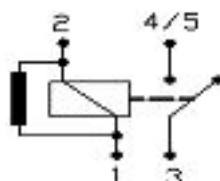
Art number 2851  
Contact Type: Change Over  
Volt: 24V-5/10A  
Term.Config.: 5 pin - 3x2,8 & 2x6,3mm  
Circ.Diagr.: S2  
Component:



Art number 2842  
Contact Type: Normally Open  
Volt: 12V-25A  
Term.Config.: 4 pin - 2x4,8mm & 2x6,3mm  
Circ.Diagr.: S1  
Component:

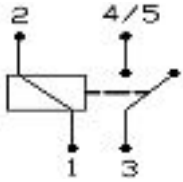


Art number 2842D  
Contact Type: Normally Open  
Volt: 12V-25A  
Term.Config.: 4 pin - 2x4,8mm & 2x6,3mm  
Circ.Diagr.: S1  
Component:  
Diode

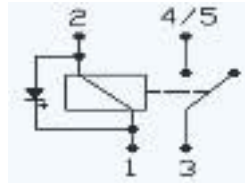


Art number 2842R  
Contact Type: Normally Open  
Volt: 12V-25A  
Term.Config.: 4 pin - 2x4,8mm & 2x6,3mm  
Circ.Diagr.: S1  
Component:  
Resistor

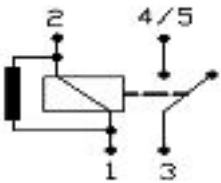
## RIPCA/RIPAULTS - Micro Relays



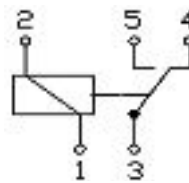
Art number 2843  
 Contact Type: Normally Open  
 Volt: 24V-10A  
 Term.Config.: 4 pin - 2x4,8mm & 2x6,3mm  
 Circ.Diagr.: S1  
 Component: -



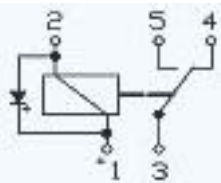
Art number 2843D  
 Contact Type: Normally Open  
 Volt: 24V-10A  
 Term.Config.: 4 pin - 2x4,8mm & 2x6,3mm  
 Circ.Diagr.: S1  
 Component: Diode



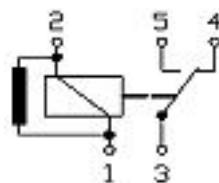
Art number 2843R  
 Contact Type: Normally Open  
 Volt: 24V-10A  
 Term.Config.: 4 pin - 2x4,8mm & 2x6,3mm  
 Circ.Diagr.: S1  
 Component: Resistor



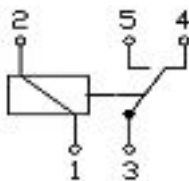
Art number 2845  
 Contact Type: Change Over  
 Volt: 12V-20/10A  
 Term.Config.: 5 pin - 3x4,8mm & 2x6,3mm  
 Circ.Diagr.: S2  
 Component: -



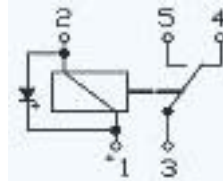
Art number 2845D  
 Contact Type: Change Over  
 Volt: 12V-20/10A  
 Term.Config.: 5 pin - 3x4,8mm & 2x6,3mm  
 Circ.Diagr.: S2  
 Component: Diode



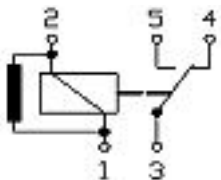
Art number 2845R  
 Contact Type: Change Over  
 Volt: 12V-20/10A  
 Term.Config.: 5 pin - 3x4,8mm & 2x6,3mm  
 Circ.Diagr.: S2  
 Component: Resistor



Art number 2847  
 Contact Type: Change Over  
 Volt: 24V-10/5A  
 Term.Config.: 5 pin - 3x4,8mm & 2x6,3mm  
 Circ.Diagr.: S2  
 Component: -



Art number 2847D  
 Contact Type: Change Over  
 Volt: 24V-10/5A  
 Term.Config.: 5 pin - 3x4,8mm & 2x6,3mm  
 Circ.Diagr.: S2  
 Component: Diode



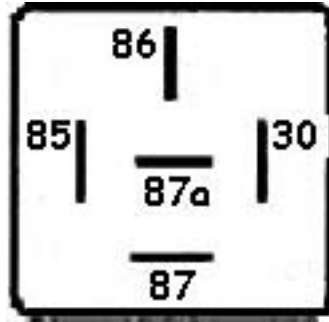
Art number 2847R  
 Contact Type: Change Over  
 Volt: 24V-10/5A  
 Term.Config.: 5 pin - 3x4,8mm & 2x6,3mm  
 Circ.Diagr.: 2  
 Component: Resistor

## RIPCA/RIPAULTS - Mini Relays

### Mini Relays Type A

Arrangement of terminals for:  
BMW, Ford, Jaguar, Opel, Volvo.

All relays supplied with a loose metal bracket.  
Terminal sizes: 6,3 mm.

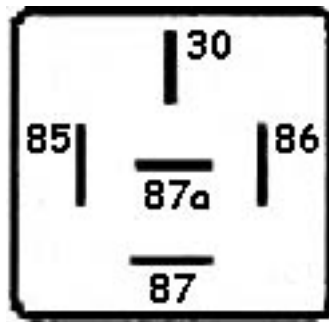


	Art number	Type	Volt/Amp.
	238384	Normally Open	12V/40A
	238586	Normally Open	24V/20A

### Mini Relays Type B

Arrangement of terminals for:  
Audi, Austin/Rover, Citroen, Daimler Benz, KHD, MAN,  
Massey Ferguson, Peugeot, Porsche, Renault, Saab,  
Simca/Talbot and VW.

All relays supplied with a loose metal bracket.  
Terminal sizes: 6,3 mm.



	Art number	Type	Volt/Amp.
	202552	Normally open	12V/40A
	205853	Normally open	24V/20A

## RIPCA/RIPAULTS - Mini Relays

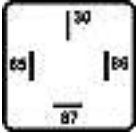
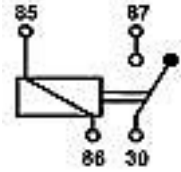
	Art number	Type	Volt/Amp.
	203126	Normally open with double output	12V/40A
	205954	Normally open with double output	24V/20A
	Art number	Type	Volt/Amp.
	273738	Normally open with resistor	12V/40A
	273940	Normally open with resistor	24V/20A
	Art number	Type	Volt/Amp.
	203227	Change over	12V-30/40A
	206055	Change over	24V-10/20A
	Art number	Type	Volt/Amp.
	268990	Change over with diode	12V-30/40A
	2690HDDS	Change over sealed with diode	12V-30/40A
	270056	Change over with diode	24V-10/20A
	Art number	Type	Volt/Amp.
	275253	Change over with resistor	12V-30/40A
	Art number	Type	Volt/Amp.
	200102	Normally open with insertable fuse	12V/30A
	400102	Normally open with insertable fuse	24V/15A
	SR312	Current Relay/Switch off relay for rear for light. 3 pole version in normally closed layout.	12V-2x21W
	Art number	Type	Volt/Amp.
	SR412	Current Relay/Switch off relay for rear for light. 4 pole version in change over layout.	12V - 2X21W - CHANGE OVER
	Art number	Type	Volt/Amp.
	2020	Normally open with double output	12V - 2x30A
	2050	Normally open with double output	24V - 2x20A

## RIPCA/RIPAULTS - High Performance Relays

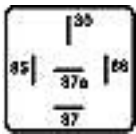
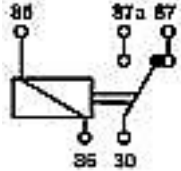
### High Performance Relays RIPCA/RIPAULTS



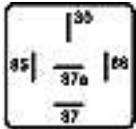
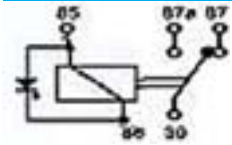
	Art number	Type	Volt/Amp.	Term. Config.
	268763	Normally Open	12V/70A	4 pin - 2x9,5 mm & 2x6,3 mm
	279298	Normally Open	24V/40A	4 pin - 2x9,5 mm & 2x6,3 mm



	Art number	Type	Volt/Amp.	Term. Config.
	7032	Change Over	12V-40/70A	5 pin - 3x9,5 mm & 2x6,3 mm
	7060	Change Over	24V-30/40A	5 pin - 3x9,5 mm & 2x6,3 mm



	Art number	Type	Volt/Amp.	Term. Config.
	7689S	Change Over with diode and sealed	12V-40/70A	5 pin - 3x9,5 mm & 2x6,3 mm
	7700S	Change Over with diode and sealed	24V-30/40A	5 pin - 3x9,5 mm & 2x6,3 mm



## RIPCA/RIPAULTS - LED Flasher

### RIPCA/RIPAULTS LED Flasher

#### MATERIAL:

Base: Nylon PA 6

6 +30%GF Black

Case: Nylon PA 6.6 +15% Blue.

Fastons 1, 2 & 5: CuZN.

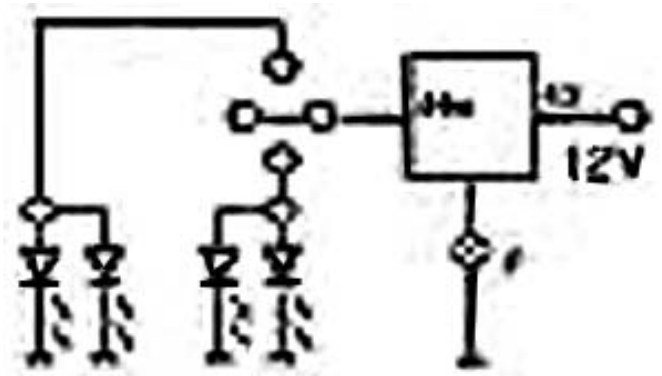
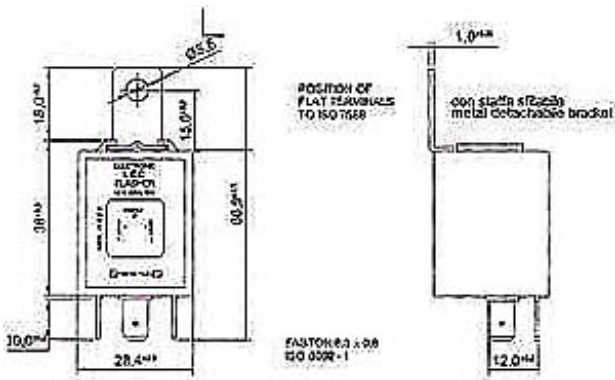
Bracket: CK67 Hardness 460± 525HV1 Phosphated white.

#### TECHNICAL CHARACTERISTICS:

Nominal Voltage: 12V

Operating Voltage: 10V..15V

Pull-in Voltage:



Art number	Type
7103	Electronic L.E.D. Flasher Unit 3pin 12V 0.1-30W.



## RIPCA/RIPAULTS - Flasher Unit with Trailer Application for passenger cars



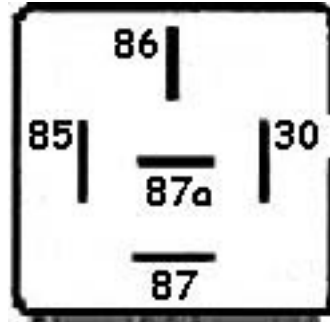
		Art number	Remark
		7001	DIN.
		7003	Japan
		7002	SAE
		7011	Din 4-pole

## NAGARES - Mini Relays

### Mini Relais NAGARES type A

Arrangement of terminals for:  
BMW, Ford, Jaguar, Opel, Volvo.

Terminal sizes: 6,3 mm.  
ISO7588



	Art number	Bracket	Volt/Amp.	Type
	2383	x	12V/40A	Normally Open
	2384	-	12V/40A	Normally Open
	2385	x	24V/22A	Normally Open
	2386	-	24V/22A	Normally Open

	Art number	Bracket	Volt/Amp.	Type
	2387	x	12V/40A	Normally Open with double output
	2388	-	12V/40A	Normally Open with double output
	2389	x	24V/22A	Normally Open with double output
	2390	-	24V/22A	Normally Open with double output

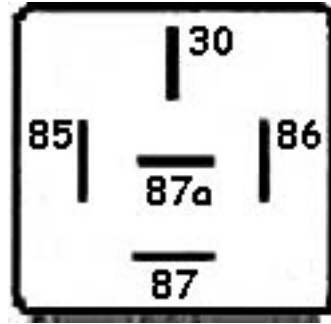
	Art number	Bracket	Volt/Amp.	Type
	2391	x	12V/40A/15A	Change Over
	2392	-	12V/40A/15A	Change Over
	2393	x	24V/22A/10A	Change Over
	2394	-	24V/22A/10A	Change Over

# NAGARES - Mini Relays

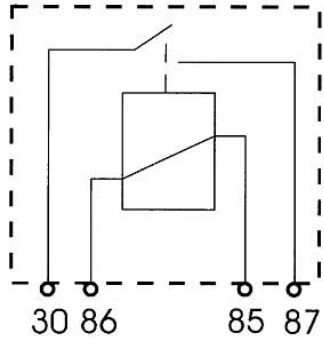
## Mini Relais NAGARES type B

Arrangement of terminals for:  
Audi, Austin/Rover, Citroen, Daimler Benz, KHD, MAN,  
Massey Ferguson, Peugeot, Porsche, Renault, Saab,  
Simca/Talbot and VW.

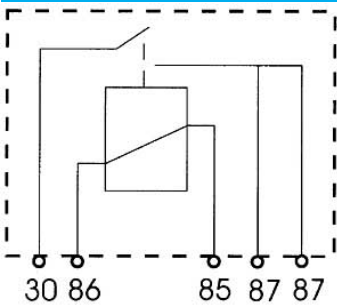
Terminal sizes: 6,3 mm.  
ISO8092.



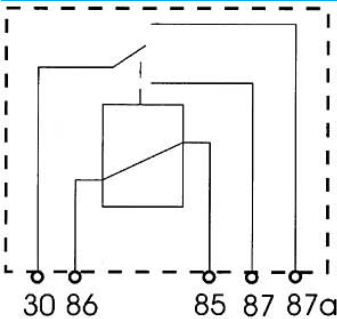
Art number	Bracket	Volt/Amp.	Type
2152	x	12V/40A	Normally Open
2025	-	12V/40A	Normally Open
2058	x	24V/22A	Normally Open
2053	-	24V/22A	Normally Open



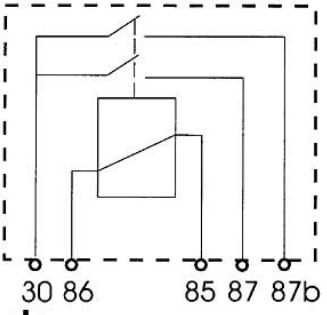
Art number	Bracket	Volt/Amp.	Type
2031	x	12V/40A	Normally Open with double output
2026	-	12V/40A	Normally Open with double output
2059	x	24V/22A	Normally Open with double output
2054	-	24V/22A	Normally Open with double output

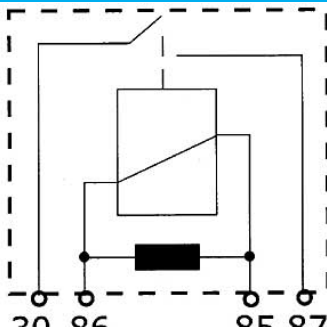


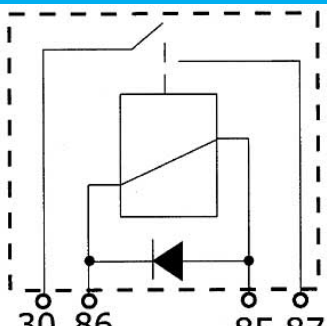
Art number	Bracket	Volt/Amp.	Type
2032	x	12V-40/15A	Change Over
2027	-	12V-40/15A	Change Over
2060	x	24V-22/10A	Change Over
2055	-	24V-22/10A	Change Over

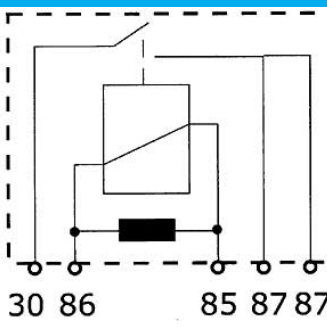


## NAGARES - Mini Relays

	Art number	Bracket	Volt/Amp.	Type
 *	2794	x	12V/2x20A	Normally Open with double contact and double output.
	2795	-	12V/2x20A	Normally Open with double contact and double output.
	2796	x	24V/2x10A	Normally Open with double contact and double output.
	2797	-	24V/2x10A	Normally Open with double contact and double output.

	Art number	Bracket	Volt/Amp.	Type
	2737	x	12V/40A	Normally Open with resistor
	2738	-	12V/40A	Normally Open with resistor
	2739	x	24V/22A	Normally Open with resistor
	2740	-	24V/22A	Normally Open with resistor

	Art number	Bracket	Volt/Amp.	Type
	2741	x	12V/40A	Normally Open with diode
	2742	-	12V/40A	Normally Open with diode
	2743	x	24V/22A	Normally Open with diode
	2744	-	24V/22A	Normally Open with diode

	Art number	Bracket	Volt/Amp.	Type
	2698	x	12V/40A	Normally Open with resistor and double output.
	2746	-	12V/40A	Normally Open with resistor and double output.
	2699	x	24V/22A	Normally Open with resistor and double output.
	2747	-	24V/22A	Normally Open with resistor and double output.

## NAGARES - Mini Relays

	Art number	Bracket	Volt/Amp.	Type
	2748	x	12V/40A	Normally Open with diode and double output.
	2749	-	12V/40A	Normally Open with diode and double output.
	2750	x	24V/22A	Normally Open with diode and double output.
	2751	-	24V/22A	Normally Open with diode and double output.

	Art number	Bracket	Volt/Amp.	Type
	2752	x	12V-40/15A	Change Over with resistor
	2753	-	12V-40/15A	Change Over with resistor
	2754	x	24V-22/10A	Change Over with resistor
	2755	-	24V-22/10A	Change Over with resistor

	Art number	Bracket	Volt/Amp.	Type
	2689	x	12V-40/15A	Change Over with diode
	2690	-	12V-40/15A	Change Over with diode
	2700	x	24V-22/10A	Change Over with diode
	2756	-	24V-22/10A	Change Over with diode

## NAGARES - High Performance Relays

### High Performance Relays - NAGARES

Type B

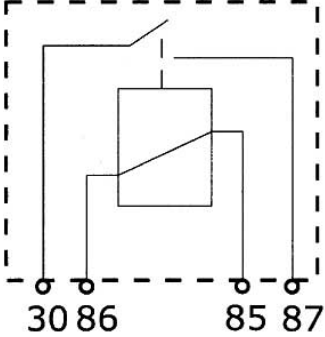


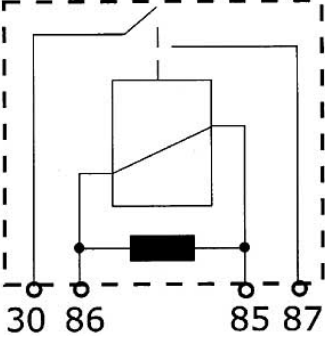
	Art number	Bracket	Volt/Amp.	Type	Terminals
	2395	x	12V/50A	Normally Open	2x6,3/2x8,0 mm
	2396	-	12V/50A	Normally Open	2x6,3/2x8,0 mm
	2397	x	24V/30A	Normally Open	2x6,3/2x8,0 mm
	2398	-	24V/30A	Normally Open	2x6,3/2x8,0 mm

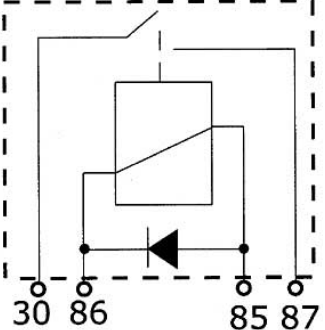
	Art number	Bracket	Volt/Amp.	Type	Terminals
	2803	x	12V/50A	Normally Open with resistor	2x6,3/2x8,0 mm
	2804	-	12V/50A	Normally Open with resistor	2x6,3/2x8,0 mm
	2805	x	24V/30A	Normally Open with resistor	2x6,3/2x8,0 mm
	2806	-	24V/30A	Normally Open with resistor	2x6,3/2x8,0 mm

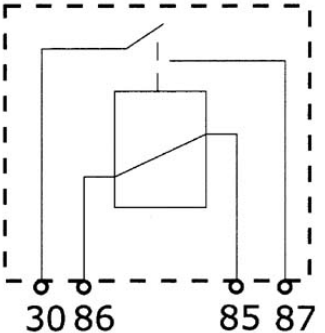
	Art number	Bracket	Volt/Amp.	Type	Terminals
	2693	x	12V/50A	Normally Open with diode	2x6,3/2x8,0 mm
	2807	-	12V/50A	Normally Open with diode	2x6,3/2x8,0 mm
	2808	x	24V/30A	Normally Open with diode	2x6,3/2x8,0 mm
	2809	-	24V/30A	Normally Open with diode	2x6,3/2x8,0 mm

## NAGARES - High Performance Relays

	Art number	Bracket	Volt/Amp.	Type	Terminals
	2687	x	12V/70A	Normally Open	2x6,3/2x9,5 mm
	2763	-	12V/70A	Normally Open	2x6,3/2x9,5 mm
	2792	x	24V/40A	Normally Open	2x6,3/2x9,5 mm
	2798	-	24V/40A	Normally Open	2x6,3/2x9,5 mm

	Art number	Bracket	Volt/Amp.	Type	Terminals
	2810	x	12V/70A	Normally Open with resistor	2x6,3/2x9,5 mm
	2811	-	12V/70A	Normally Open with resistor	2x6,3/2x9,5 mm
	2812	x	24V/40A	Normally Open with resistor	2x6,3/2x9,5 mm
	2813	-	24V/40A	Normally Open with resistor	2x6,3/2x9,5 mm

	Art number	Bracket	Volt/Amp.	Type	Terminals
	2814	x	12V/70A	Normally Open with diode	2x6,3/2x9,5 mm
	2815	-	12V/70A	Normally Open with diode	2x6,3/2x9,5 mm
	2816	x	24V/40A	Normally Open with diode	2x6,3/2x9,5 mm
	2817	-	24V/40A	Normally Open with diode	2x6,3/2x9,5 mm

	Art number	Bracket	Volt/Amp.	Type	Terminals
	2136	x	12V/100A	Normally Open	2x6,3/2xM6 bolt
	2362	x	24V/60A	Normally Open	2x6,3/2xM6 bolt
	2252	x	12V/120A	Normally Open	2x6,3/2xM6 bolt
	2253	x	24V/100A	Normally Open	2x6,3/2xM6 bolt

## NAGARES - Flasher Units



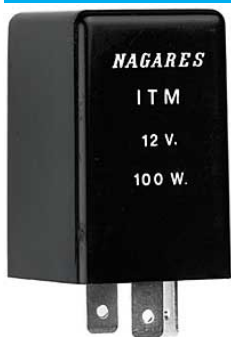
Art number	Model	Remark	Voltage	Bracket
1001	Passenger cars and Light Commercial (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	No fused lamp warning	12 V / 180 W	Yes
1036	Passenger cars and Light Commercial (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	No fused lamp warning	12 V / 180 W	No



Art number	Model	Remark	Voltage	Bracket
1005	Passenger cars and Light Commercial (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	With fused lamp detection (lamp switch off)	12 V 2x (4) 21W + 0 .... 4 W	Yes
1228	Passenger cars and Light Commercial (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	With fused lamp detection (lamp switch off)	12 V 2x (4) 21W + 0 .... 4 W	No





Art number	Model	Remark	Voltage	Bracket
1369	Passenger cars and Light Commercial (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	With fused lamp detection increased speed in lamp blinking	12 V 2x (4) 21W 4W + 0 .... 4 W	Yes
1370	Passenger cars and Light Commercial (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	With fused lamp detection increased speed in lamp blinking	12 V 2x (4) 21W + 0 .... 4 W	No





Art number	Model	Remark	Voltage	Bracket
1009	(DIN) Ford, Opel, Saab, Volvo, Audi, Alfa Romeo, VW	No fused lamp warning	12 V - 110 W	Yes
1010	(DIN) Ford, Opel, Saab, Volvo, Audi, Alfa Romeo, VW	No fused lamp warning	12 V - 110 W	No

## NAGARES - Flasher Units

	Art number	Model	Remark	Voltage	Bracket
	1584	(DIN) Ford, Opel, Saab, Volvo, Audi, Alfa Romeo, VW	With fused lamp detection increased speed in lamp blinking	12 V 2x (4) 21W + 0 .... 4 W	Yes
	1126	(DIN) Ford, Opel, Saab, Volvo, Audi, Alfa Romeo, VW	With fused lamp detection increased speed in lamp blinking	12 V 2x (4) 21W + 0 .... 4 W	No

	Art number	Model	Remark	Voltage	Bracket
	1012	Austin, Chrysler, Morris, Rover	No fused lamp warning	12 V / 180 W	Yes

	Art number	Model	Remark	Voltage	Bracket
	1011	Austin, Chrysler, Morris, Rover	No fused lamp warning	12 V / 180 W	Yes

	Art number	Model	Remark	Voltage	Bracket
	1380	Nissan, Suzuki, Honda	With fused lamp detection increased speed in lamp blinking	12 V 2x (4) 21W + 0 .... 4 W	Yes
	1381	Nissan, Suzuki, Honda	With fused lamp detection increased speed in lamp blinking	12 V 2x (4) 21W + 0 .... 4 W	No

## NAGARES - Flasher Units



Art number	Model	Remark	Voltage	Bracket
1376	Passenger cars with Trailer (SAE) Citroën, Fiat, Peugeot-Talbot, Renault, Seat	With double failure detection	12V 2+1(6) x 21W2(0)...4 W	Yes
1377	Passenger cars with Trailer (SAE) Citroën, Fiat, Nissan, Peugeot-Talbot, Renault, Seat	With double failure detection	12V 2+1(6) x 21W2(0)...4 W	No



Art number	Model	Remark	Voltage	Bracket
1379	(DIN), BMW, Ford, Opel, Saab, Volvo, Audi, AlfaRomeo, VW	With double failure detection	12V 2+1(6) x 21W + (2)0...4 W	Yes
1359	(DIN), BMW, Ford, Opel, Saab, Volvo, Audi, AlfaRomeo, VW	With double failure detection	12V 2+1(6) x 21W + (2)0...4 W	No



Art number	Model	Remark	Voltage	Bracket
1040	Industrial Vehicles (SAE) Universal/Standard	No fused lamp warning	24 V-84 W	Yes
1290	Industrial Vehicles (SAE) Universal/Standard	No fused lamp warning	24 V-84 W	No

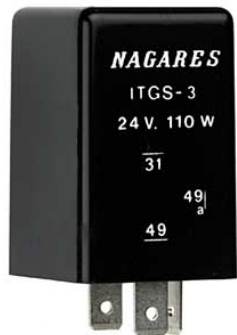
## NAGARES - Flasher Units



Art number	Model	Remark	Voltage	Bracket
1043	Industrial Vehicles (SAE) Universal/Standard	With fused lamp detection (lamp switch off)	24V 2(4)x21 W + 0...4W	Yes
1042	Industrial Vehicles (SAE) Universal/Standard	With fused lamp detection (lamp switch off)	24V 2(4)x21 W + 0...4W	No




Art number	Model	Remark	Voltage	Bracket
1465	Industrial Vehicles (SAE) Universal/Standard	With fused lamp detection increased speed in lamp blinking	24V 2(4)x21 W + 0...4W	Yes
1466	Industrial Vehicles (SAE) Universal/Standard	With fused lamp detection increased speed in lamp blinking	24V 2(4)x21 W + 0...4W	No





Art number	Model	Remark	Voltage	Bracket
1585	(DIN) Universal/Standard	With fused lamp detection (lamp switch off)	24V 2(4)x21 W + 0...4W	Yes
1169	(DIN) Universal/Standard	With fused lamp detection (lamp switch off)	24V 2(4)x21 W + 0...4W	No


## NAGARES - Flasher Units

	Art number	Model	Remark	Voltage	Bracket
	1448	Trucks with/without Trailer	High consumption	24 V-500 W	Yes


	Art number	Model	Remark	Voltage	Bracket
	1234	Trucks with/without Trailer (DIN) Universal/Standard	With fused lamp detection (lamp switch off)	24V -(2+1) x 21 W + 5 W	Yes

	Art number	Model	Remark	Voltage	Bracket
	1090	Special for Buses	Double flash	12 V-200 W	Yes
	1102	Special for Buses	Double flash	24 V-200 W	Yes

	Art number	Model	Remark	Voltage	Bracket
	1091	Special for Buses	Double flash with connector	12 V-200 W	Yes
	1103	Special for Buses	Double flash with connector	24 V-200 W	Yes

	Art number	Model	Remark	Voltage	Bracket
	1245	Tractors with one Trailer	With double failure detection	12V-(2+1) x 21 W + 5 W	Yes


## NAGARES - Flasher Units


	Art number	Model	Remark	Voltage	Bracket
	1560	Tractors with 2 Trailers	With failure detection	12V-(2+1) x 21 W + 5 W + (3)0....4W	Yes

## HIGH POWER RELAYS - Contactors

### HIGH POWER RELAYS - Contactors

The function of relays and contactors is the same: all of them close an electric circuit. But, when the amperage is over 80/90 Amp, it is suggested to use a contactor instead of a heavy duty relay for two reasons: they are SAFER and their performance is SUPERIOR. When a relay works, it closes the circuit up to 70/80 Amp., by a standard metal spring, in other words, it works properly with low amperage but this can be risky during eavy duty amperage. In the market it is easy to find a relay of 100 or 150 Amp. but their performance is inferior of the contactors. The contactors closes the circuit up to 200Amp., by a mechanical check pin. This means the closing is sure and safer. Moreover the contactor has two coils instead of just one, as a normal relay has. The contactor saves energy and consumes less than a relay, because it uses all two coils to close the circuit but thereafter when the circuit is closed, it uses only one coil to maintain the closed circuit. Standard relays must use constantly the same amount of energy and so the consume is higher. Contactors are safer, more efficient and consume much less than heavy duty relays. Contactors come from the airplane application, than they were used in trains and metro's but now also trucks and buses use them because all the accessories need more amperage to work. The following types are available:

	Art number	Voltage	Amp.
	CON12/100	12V	100A.
	CON24/100	24V	100A.

	Art number	Voltage	Amp.
	CON12/200	12V	200A.
	CON24/200	24V	200A.

## SOCKETS for Mini-Relays and Flasher Units



Art number RELH45B  
Remark: 5x6.3 mm  
4x2.8 mm  
RELH45B+T = Relayholder with terminals.



Art number RELH005B  
Remark: 4x2.8 mm  
3x6.3mm  
2x9.5 mm



Art number RELH007B  
Remark: 5x6.3 mm



Art number RELH001B



Art number RELH003B  
Remark: Socket for the Micro-Relay  
2x6.3 mm + 3x4.8 mm

## SOCKET for Mini Relay plus 3-way fusebox



Art number RELF-1  
Remark: 3-way fusebox plus one position for mini-relays or flasher unit.  
Terminals for blade fuse section: 30-799 1.0-2.5 mm<sup>2</sup>  
30-800 4.0-6.0 mm<sup>2</sup>  
Terminals for relay section: 3-2922 = 0.5 - 1.0 mm<sup>2</sup>  
3-2922/1 : 1.0 - 2.5 mm<sup>2</sup>  
3-2922/2 : 2.5 - 6.0 mm<sup>2</sup>

## Relay BOX Mini Relays - 4-way

These relay boxes have been designed with reduced dimension to satisfy the many demands of the market. An appropriate locking system permit these boxes to an unlimited assembly. A sofisticate rellock system quarantees high quality of the electrical connection. Relay box supplied without relays.



Art number RELH665

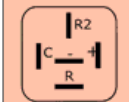

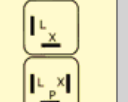

## Relay BOX Micro Relays - 7-way

Micro Relays Box complete with housing, cover, gasket, terminals mounting brackets and bottem cover. Relay box supplied without relays.



Art number RELH705

## Position and Labeling of terminals according to Countries

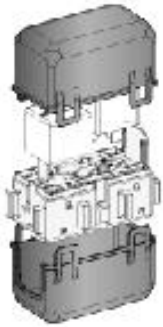
Countries	Spain, France, Italy	Germany	USA, Canada, UK	Japan
TERMINALS	SAE	DIN		
+Battery	+	49	x	B
Earth	-	31		E
Switch	C	49a	L	L
Veh. Control Lamp	R		P	
Trailer Control Lamp	R2	C2		
				


## Relay BOX for 1 Mini and 1 High Performance Relay

### Relay BOX for 1 Mini and 1 High Performance Relay

terminals to be used:

- 3-07740 - 9,5 mm - 2,5-5,0 mm<sup>2</sup> - Tinned Brass
- 3-07741 - 9,5 mm - 6.0-8.0 mm<sup>2</sup> - Tinned Brass
- 3-5615 - 2,8 mm - 0.2-0.5 mm<sup>2</sup> - Phos.Bronze Tin Plated
- 3-5620 - 2,8mm - 0.5-1.0 Phos.Bronze Tin Plated
- 3-5630 - 2,8mm - 1.5-2.5 mm<sup>2</sup> - Phos.Bronze Tin Plated
- 3-2050 - 6,3 mm - 2.5-4.0 mm<sup>2</sup> - Phos.Bronze Tin Plated

	Art number	Remarks
	02000	Housing

	Art number	Remarks
	02001	Covers

## BUZZER

	Art number	Volt
	249801	12V