

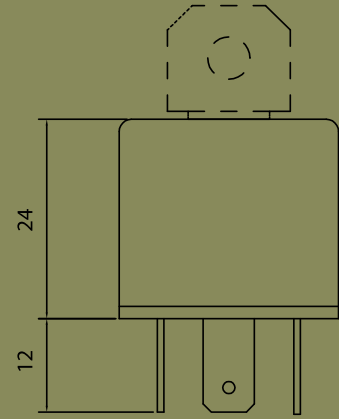
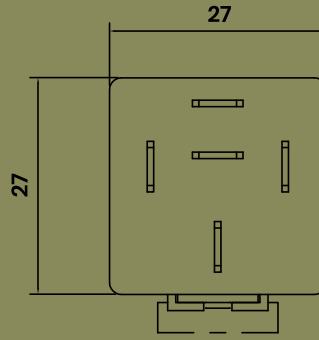
# RELÉS E INTERMITENTES

## RELAYS & FLASHERS

Relés, intermitentes, relés de bomba de combustible, centrales de precalentamiento, zumbadores, módulos de encendido, temporizadores, etc.

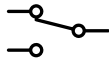
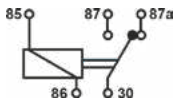
Relays, flashers, fuel pump relays, preheating centrals for diesel engines, buzzers, ignition modules, timers, etc.



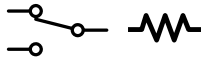
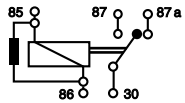


# RELÉS INVERSORES

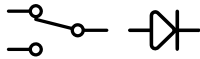
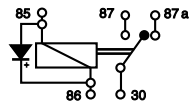
## CHANGE OVER RELAYS



Relé inversor  
Change over relay



Relé inversor con resistencia  
Change over relay with resistance



Relé inversor con diodo  
Change over relay with diode

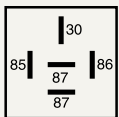


Relé homologado para aplicaciones de automoción, disponible en voltaje nominal de 12V y 24V DC, con interrupción de corriente nominal de hasta 40A.

Homologated relay for automotive applications, available at the rated voltage of 12V and 24V DC, with a rated current interruption of up to 40A.

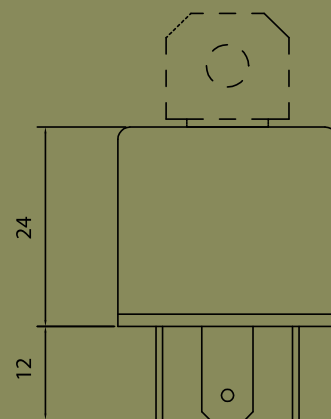
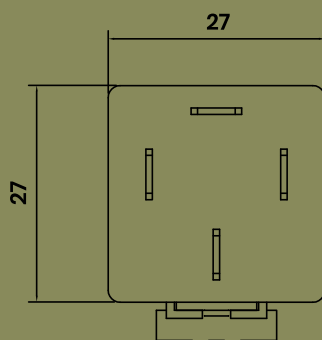


PINS 5 x 6,35 mm.



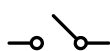
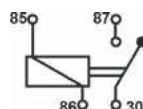
V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	
12	20/30		RR25		10
12	20/30		RR36		10
12	30/40		RR46		10
12	20/30		RR63		10
12	20/30		RR91		10
24	10/20		RR32		10
24	10/20		RR37		10
24	10/20		RR64		10
24	20/30		RR92		10

Metal extraíble - Removable metal Plástico fijo - Fixed plastic

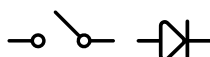
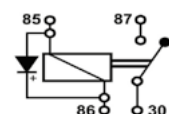


# RELÉS INTERRUPTORES

## NORMALLY OPEN RELAYS



Relé interruptor  
Normally open relay



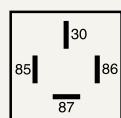
Relé interruptor con diodo  
Normally open relay with diode

Relé homologado para aplicaciones de automoción, disponible en voltaje nominal de 12V y 24V DC, con interrupción de corriente nominal de hasta 40A.

Homologated relay for automotive applications, available at the rated voltage of 12V and 24V DC, with a rated current interruption of up to 40A.

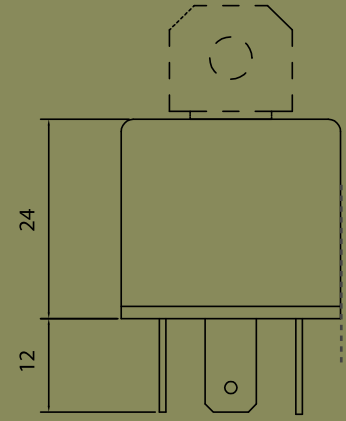
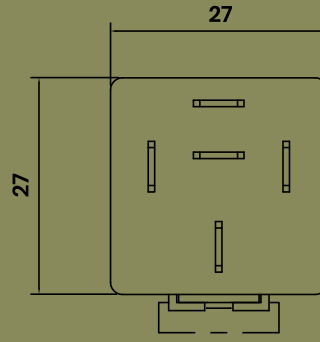


PINS 4 x 6,35 mm.



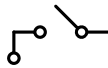
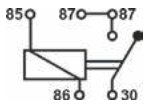
V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	
12	30		<b>RR38</b>		10
12	40		<b>RR48</b>		10
12	30		<b>RR87</b>		10
24	20		<b>RR39</b>		10
24	30		<b>RR88</b>		10

Metal extraíble - Removable metal Plástico fijo - Fixed plastic

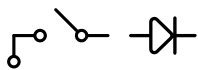
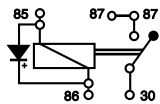


# RELÉS INTERRUPTORES DE DOBLE SALIDA

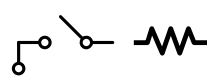
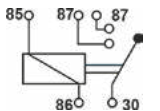
## DOUBLE OUTPUT RELAYS



Relé interruptor doble salida  
Double output normally open relay



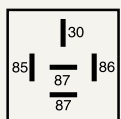
Relé interruptor doble salida con diodo  
Double output normally open relay with diode



Relé interruptor doble salida con resistencia  
Normally open relay with resistance

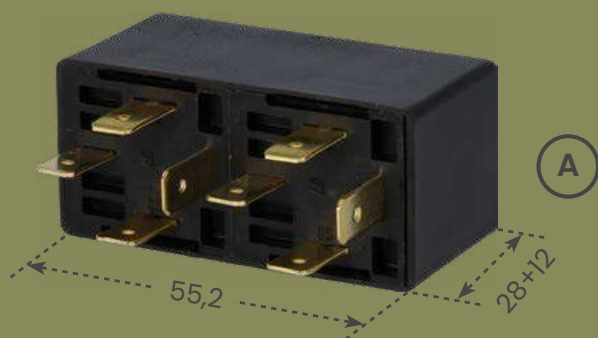


PINS 5 x 6,35 mm.

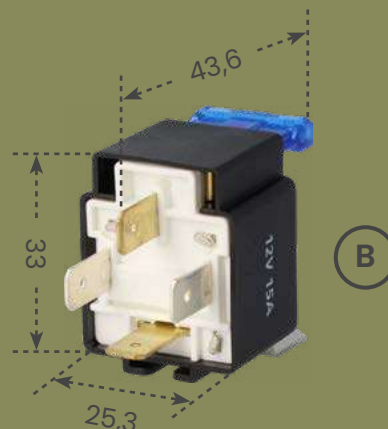


V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	
12	30		<b>RR41</b>		10
12	40		<b>RR42</b>		10
12	30		<b>RR89</b>		10
12	40		<b>RR43</b>		10
12	40		<b>RR68</b>		10
24	20		<b>RR65</b>		10
24	20		<b>RR90</b>		10

Metal extraíble - Removable metal Plástico fijo - Fixed plastic



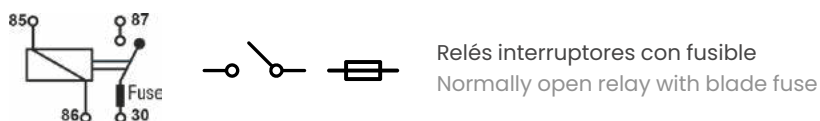
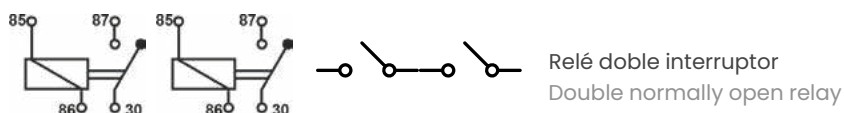
**RR** Relé doble interruptor  
Double normally open relay



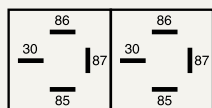
**RR** Relé interruptor con fusible  
Normally open relay with blade fuse

# RELÉS ESPECIALES

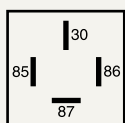
## SPECIAL RELAYS



**PINS** 8 x 6,35 mm.

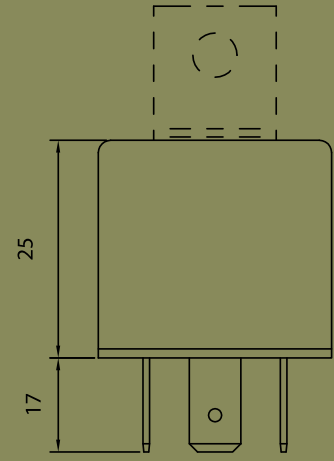
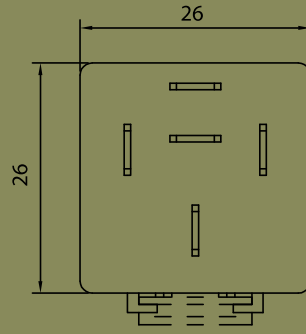


**PINS** 4 x 6,35 mm.



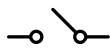
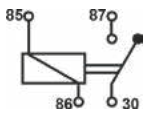
V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	2 x 30		<b>RR82</b>		A	1
12	15		<b>RR69</b>		B	10
12	30		<b>RR70</b>		B	10
24	20		<b>RR71</b>		B	10

Metal extraíble - Removable metal Plástico fijo - Fixed plastic

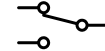
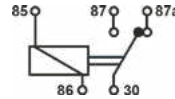


# RELÉS DE POTENCIA

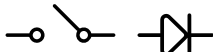
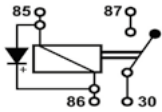
## POWER RELAYS



Relé de potencia interruptor  
Normally open power relay



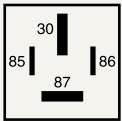
Relé de potencia inversor  
Change over power relay



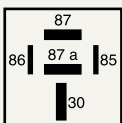
Relé de potencia interruptor con diodo  
Normally open power relay with diode



**PINS** 2 x 6,35 mm.  
2 x 9,50 mm.



**PINS** 2 x 6,35 mm.  
3 x 9,50 mm.

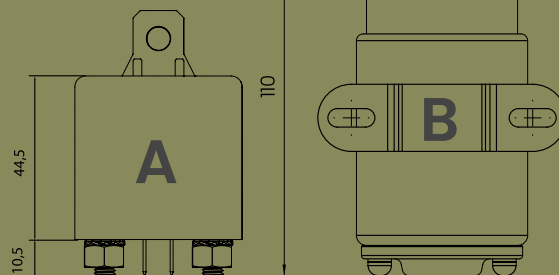


V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	
12	50		<b>RR73</b>		10
12	70		<b>RR72</b>		10
12	50		<b>RR93</b>		10
12	70		<b>RR95</b>		10
24	50		<b>RR74</b>		10
24	70		<b>RR75</b>		10
24	50		<b>RR94</b>		10
12	60/70		<b>RR26</b>		10
24	40/50		<b>RR27</b>		10

Metal extraíble - Removable metal Plástico fijo - Fixed plastic

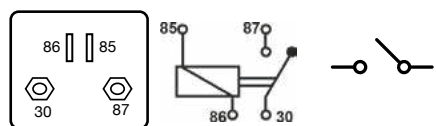


RR85/86

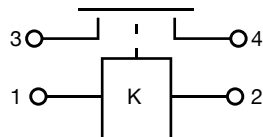


# RELÉS ALTA POTENCIA

## HEAVY DUTY RELAYS



Relé interruptor de alta potencia  
Normally open relay heavy duty



Relé de arranque trabajo continuo  
Contactor continuous working load

Medidas - Measures	A	B
Altura - Height	46,0 mm.	54,0 mm.
Ancho - Width	46,0 mm.	54,0 mm.
Profundidad - Depth	44,5 mm.	110,0 mm.
Altura pins - Pin's height	10,5 mm.	11,5 mm.

Relé de alta potencia disponible en voltaje nominal de 12V y 24V DC, con una capacidad de conmutación de hasta 200A.

Heavy Duty relay available at the rated voltage of 12V and 24V DC, with a switching capability of up to 200A.

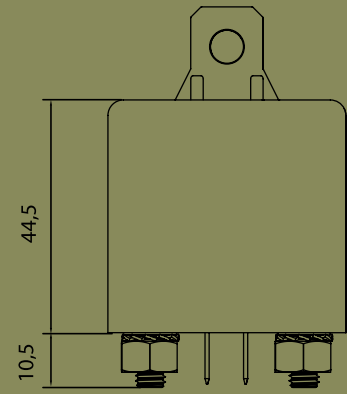
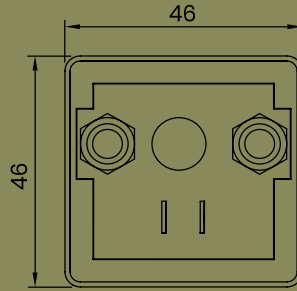


**PINS** 2 x 6,35 mm.  
**TORNILLOS** 2 x M6  
**SCREWS**

**PINS** 2 x 6,35 mm.  
**TORNILLOS** 2 x M8  
**SCREWS**

V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	200		<b>RR83</b>		A	1
24	100		<b>RR84</b>		A	1
12	140		<b>RR85</b>		B	1
24	140		<b>RR86</b>		B	1

Metal extraíble - Removable metal Plástico fijo - Fixed plastic

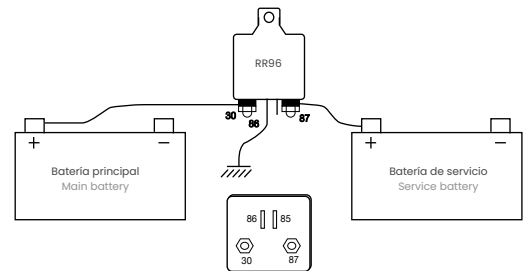


# RELÉS SEPARADORES

## SEPARATOR RELAYS

Relé de carga micro-controlado, hace de puente entre la batería principal y las baterías auxiliares. Disponible en voltaje nominal de 12V y 24V DC, con una capacidad de conmutación de hasta 200A. Alternativa al tradicional "repartidor de carga" con diodos. El Relé Automático es compatible con todo tipo de alternadores incluyendo los más potentes, y altamente fiable. Funcionamiento del RR96: Cuando el alternador genera una tensión igual o superior a 13,4V, el Relé Automático conecta la "Batería auxiliar" al alternador y mientras la tensión este por encima de 12,6V se mantiene. Por debajo los 12,6V el relé se desconecta para evitar la descarga de la batería principal. Es aconsejable realizar el montaje con cable de mínimo 10mm<sup>2</sup> de sección y lo más corto posible (máximo 2 metros).

Micro-controlled charging relay which acts as a bridge between the main battery and the auxiliary batteries. Available in the nominal voltage of 12V and 24V DC, with a switching capacity of up to 200A. An alternative to the traditional "load splitter" with diodes. The Automatic Relay is compatible with all types of alternators including the most powerful, and highly reliable. Operation of the RR96: When the alternator generates a voltage equal to or greater than 13.4V, the Automatic Relay connects the "Auxiliary Battery" to the alternator and while the voltage is above 12.6V is maintained. Below 12.6V the relay disconnects to avoid discharge of the main battery. It is advisable to mount with a cable of minimum 10mm<sup>2</sup> in section and as short as possible (maximum 2 meters).



- Borne 30: Positivo batería motor / Positive motor battery
- Borne 87: Positivo batería auxiliar / Negative motor battery
- Borne 86: Negativo o masa batería / Negative or battery mass
- Borne 85: NO USAR / Do not use

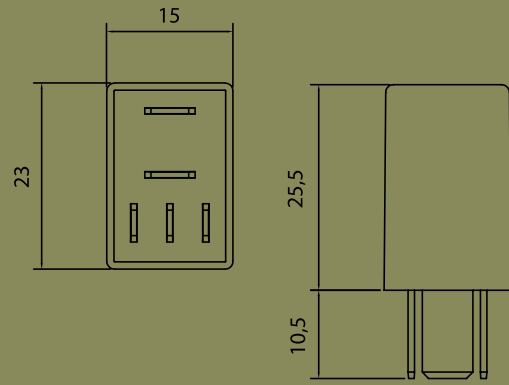


**PINS** 2 x 6,35 mm.  
**TORNILLOS** 2 x M6  
**SCREWS**

V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	
12	200	-	RR96		1
24	100	-	RR97		1

Metal extraíble - Removable metal Plástico fijo - Fixed plastic



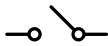
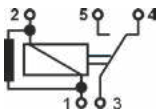


# MICRORELÉS

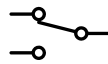
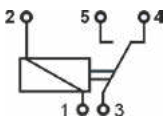
## MICRORELAYS

### Medidas - Measures

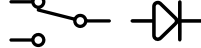
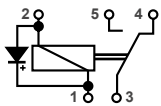
Altura - Height	23,0 mm.
Ancho - Width	15,0 mm.
Profundidad - Depth	25,5 mm.
Altura pins - Pin's height	10,5 mm.



Microrelé interruptor  
Normally open microrelay



Microrelé inversor  
Change over microrelay



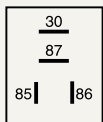
Microrelé inversor con diodo  
Change over microrelay with diode

Relé de pequeño tamaño para aplicaciones de automoción disponible en el voltaje nominal de 12V y 24V DC, con una corriente nominal de hasta 20A.

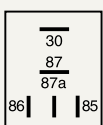
Small size relay for automotive applications available at the rated voltage of 12V and 24V DC, with a rated current of up to 20A.



**PINS** 2 x 6,35 mm.  
2 x 4,8 mm.



**PINS** 2 x 6,35 mm.  
3 x 4,8 mm.



V	A	ESQUEMA DRAWING	REF.	SOPORTE SUPPORT	
12	20		<b>RR76</b>	-	10
24	10		<b>RR79</b>	-	10
12	10/20		<b>RR78</b>	-	10
12	15/25		<b>RR99</b>	-	10
24	5/10		<b>RR80</b>	-	10

Metal extraíble - Removable metal Plástico fijo - Fixed plastic



IE01



IE02



IE32

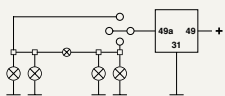
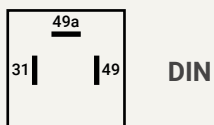
# INTERMITENTES DE 3 PINS

## 3 PIN FLASHERS

APLICACIÓN APPLICATION	0 FALLOS 0 FAILURES	1 FALLO 1 FAILURE



PINS 3 x 6,35 mm.



V	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	1		IE01		C	10
12	1		IE02		B	10
12	1		IE32	-	A	10
24	0		IE05		D	10
24	1		IE67		B	1

Detección de fallo - Failure detection Metal extraíble - Removable metal



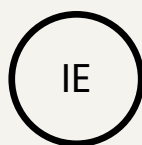
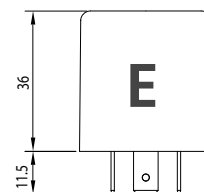
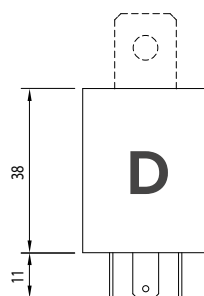
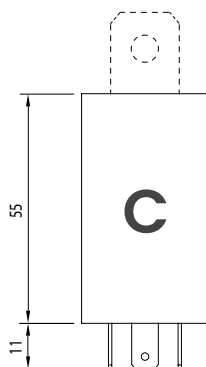
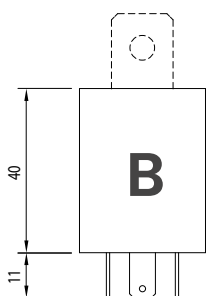
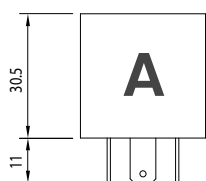
IE65



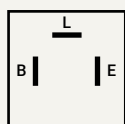
IE58



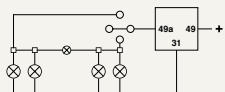
IE06



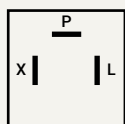
**PINS** 3 x 6,35 mm.



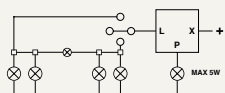
**JAPAN**



**PINS** 3 x 6,35 mm.



**SAE**



V	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	1		<b>IE65</b>	-	E	1
12	1		<b>IE58</b>	-	A	1
12	0		<b>IE06</b>	-	B	10
24	0		<b>IE69</b>		D	1



Sin detección de fallo - Without failure detection



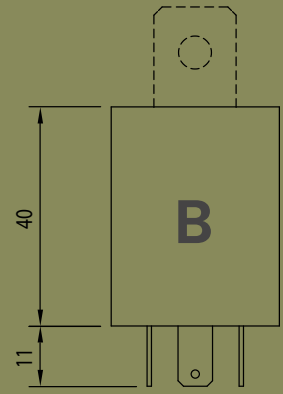
Intermitentes - Blinkers



IE07



IE03



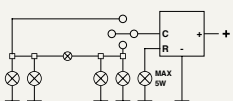
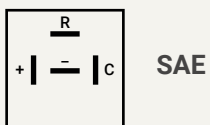
# INTERMITENTES DE 4 Y 5 PINS

## 4 Y 5 PIN FLASHERS

APLICACIÓN APPLICATION	1 FALLO 1 FAILURE	2 FALLOS 2 FAILURES



PINS 4 x 6,35 mm.



V	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	1		IE07		B	10
12	1		IE30		A	10
24	1		IE66		C	1
24	1		IE68		D	1

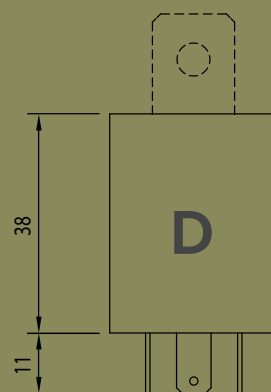
Detección de fallo - Failure detection Intermitentes - Blinkers



IE64



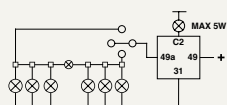
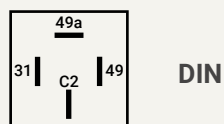
IE04



V	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
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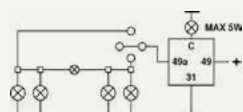
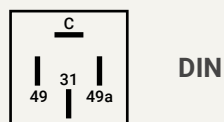
PINS 4 x 6,35 mm.

12	2		IE03		B	10
----	---	--	------	--	---	----



PINS 4 x 6,35 mm.

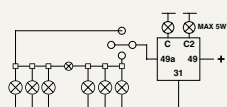
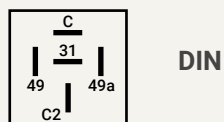
12	1		IE52		B	10
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24	1		IE64		D	1
----	---	--	------	--	---	---

PINS 5 x 6,35 mm.

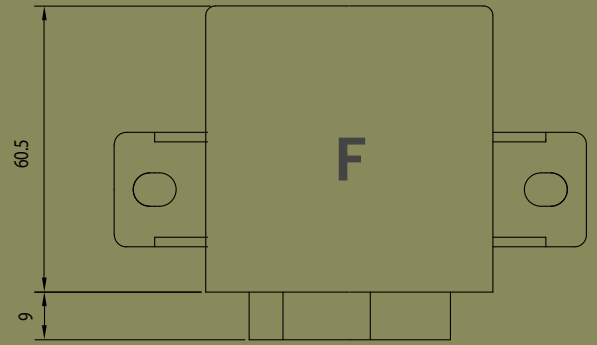
12	2		IE04		B	10
----	---	--	------	--	---	----



Metal extraíble - Removable metal



IE14



# INTERMITENTES DE 6 PINS

## 6 PIN FLASHERS

APLICACIÓN APPLICATION	CON 2 FALLOS WITH 2 FAILURES

IE

**PINS** 6 x 6,35 mm.

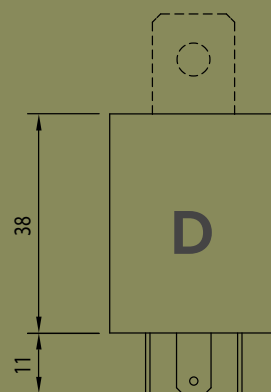
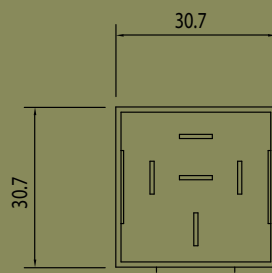
30b	49a	49
31	C2	C

V	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
24	2		<b>IE14</b>		F	1

Detección de fallo - Failure detection    Intermitentes - Blinkers



IL15



# INTERMITENTES LED

## LED FLASHERS

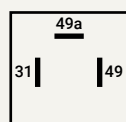
Diseñados para vehículos con indicadores LED. El uso de luces LED en lugar de las bombillas tradicionales se ha extendido en el mercado automovilístico debido a una mayor vida útil y a la alta eficiencia energética.

Designed for vehicles with directional indicator LED lights. The use of LED lights instead of traditional bulbs has spread in the automotive market due to a longer lifespan and high power efficiency.

APLICACIÓN APPLICATION	0 FALLOS 0 FAILURES	1 FALLO 1 FAILURE

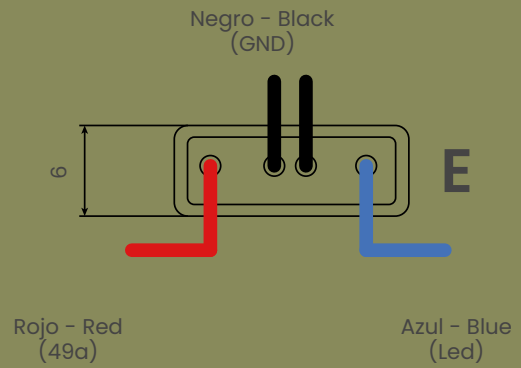
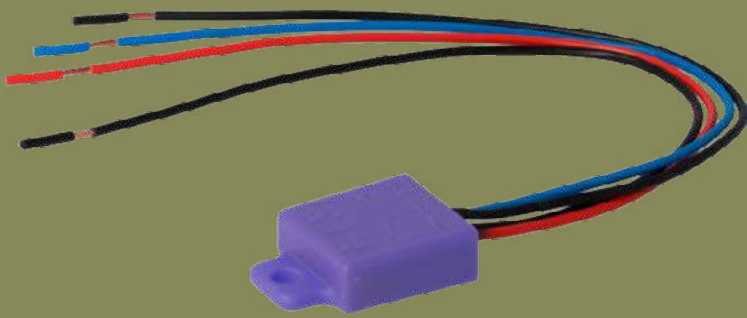


PINS 3 x 6,35 mm.



V	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	0		<b>IL15</b>		D	1
12	1		<b>IL16</b>		D	1

Con fallo LED - With LED failure Sin fallo LED - Without LED failure

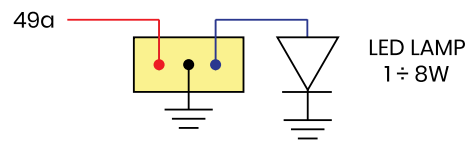


# ILS – INTERMITENTES LED

## INTELIGENTES

### ILS – SMART LED FLASHERS

El ILS es la solución inteligente y universal al problema de la detección de fallos de una lámpara indicadora de dirección LED. La normativa internacional exige la detección de fallos de una lámpara para los vehículos que circulan por la vía pública. El intermitente advierte al conductor aumentando la velocidad de destello de las luces indicadoras de dirección o apagando una luz indicadora en el salpicadero.



Esta solución universal permite detectar el fallo tanto de la bombilla como del grupo de LEDs entre 1W y 8W. Combinado con nuestra unidad de intermitencia específica, ILS permite una detección fiable del fallo del grupo de LED y evita las señales irregulares o espurias. El ILS no produce calor, por lo que puede instalarse en cualquier lugar, su consumo de energía es irrelevante.

La tecnología ILS es:

- 1) Patentada dentro de los estados miembros de la UE: Patente europea n. 2 540 570
- 2) Homologación EMC según ECE E24 10R-030926
- 3) Probado para el cumplimiento de la norma ISO "13207-1:2012 - Vehículos de carretera - características de la lámpara LED para la detección de fallos compatibles con la bombilla.

ILS is the intelligent and universal solution to the problem of the failure detection of a LED direction indicator lamp. International regulations requires the Failure Detection of a lamp for vehicles driven on public roads. The flasher warns the driver by increasing the flash rate of the direction indicators lights or by switching off an indicator light on the dashboard.

This universal solution allows to detect the failure of both bulb and cluster LED between 1W and 8W. Combined with our specific flasher unit, ILS allows a reliable detection of LED cluster failure and prevents irregular or spurious signals. ILS does not produce heat so it can be fitted anywhere, its power consumption is irrelevant.

The ILS technology is:

- 1) Patented inside the member states of EU: European Patent n. 2 540 570
- 2) EMC Homologation according to ECE E24 10R-030926
- 3) Tested for compliance with the Standard ISO "13207-1:2012- Road Vehicles - LED lamp characteristics for bulb compatible failure detection.

● Con detección de fallo - With failure detection ▲ Intermitentes - Blinkers

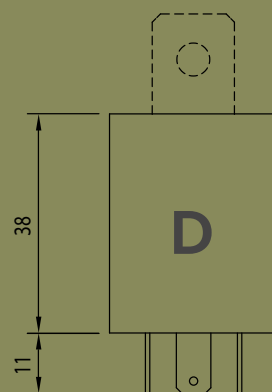




ILS04



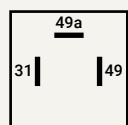
ILS05



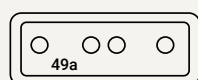
APLICACIÓN APPLICATION	1 FALLO 1 FAILURE	2 FALLOS 2 FAILURES	3 FALLOS 3 FAILURES



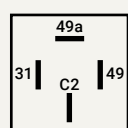
PINS 3 x 6,35 mm.



PINS 4



PINS 4 x 6,35 mm.



DIN

V	W	FALLOS FAILURES	APLICACIÓN APPLICATION	REF.	SOPORTE SUPPORT	MEDIDAS MEASURES	
12	90	1		ILS04		D	1
24	90	1		ILS07		D	1
12	-	2	-	ILS01	-	E	1
24	-	2	-	ILS02	-	E	1
12-24	-	2	-	ILS03	-	E	1
12	140	2		ILS05		D	1
12	170	3		ILS06		D	1
24	140	3		ILS08		D	1
24	170	3		ILS09		D	1

Metal extraíble - Removable metal



RT01



RT02

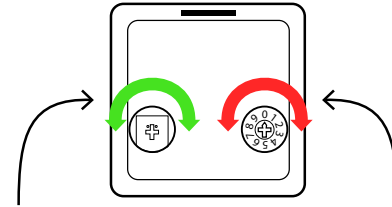


# RELÉS TEMPORIZADORES

## TIMER RELAYS

Se utilizan para encender o apagar un accesorio tras el tiempo de retardo programado. La referencia RT01 tiene un tiempo de programado de 5 segundos (fijos) y las siguientes dos referencias se pueden programar manualmente con los dos selectores ubicados en la parte superior. Permite de 0,5 segundos a 6 horas.

They are used to turn an accessory on or off after the programmed delay time. The RT01 reference has a programming time of 5 seconds (fixed) and the following two references can be manually programmed with the two selectors located on the upper part. Allow 0.5 seconds to 6 hours.

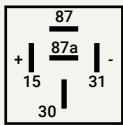


Aumentar el tiempo  
Increase time

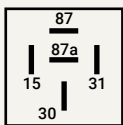
Ajustar temporizador  
Set delay type and time range



PINS 5 x 6,35 mm.



PINS 5 x 6,35 mm.



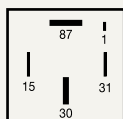
V	A	TIEMPO TIME seg.	REF.	SOPORTE SUPPORT	
12	20	5	RT01		1
12	10	a programar	RT02		1
24	10	a programar	RT03		1

# RELÉS DE BOMBA DE COMBUSTIBLE

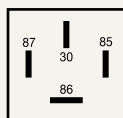
## FUEL PUMP RELAYS



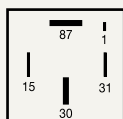
**PINS** 5



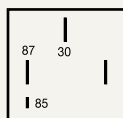
**PINS** 4



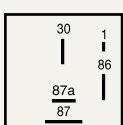
**PINS** 5



**PINS** 4



**PINS** 5



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>RI03</b>	AUDI/VW	321906059 - 443906059 443907385
<b>RI07</b>	AUDI/VW	357906381
<b>RI10</b>	AUDI/VW	321906059G - 443907385B
<b>RI17</b>	AUDI/VW	357906381A - 1J0906381A
<b>RI19</b>	AUDI/VW	443951253AA

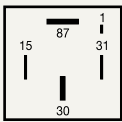


# RELÉS DE BOMBA DE COMBUSTIBLE

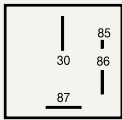
## FUEL PUMP RELAYS



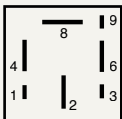
**PINS** 5



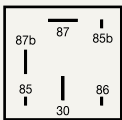
**PINS** 4



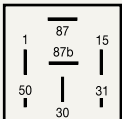
**PINS** 7



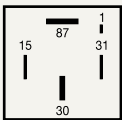
**PINS** 6



**PINS** 7



**PINS** 5



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>RI20</b>	AUDI/VW	321906059H - 443907385C 443907385G - 443907385H
<b>RI21</b>	AUDI/VW	191906383C - 191906363
<b>RI26</b>	AUDI/VW SEAT/SKODA	1J0906383
<b>RI01</b>	OPEL	1238540 - 1238549 1238966 - 1238960 1238539
<b>RI04</b>	OPEL	1238563 - 1238566
<b>RI05</b>	AUDI/VW	321906059D - 321906059E 443906059A - 443907385 321906059F

1 u.





RI17



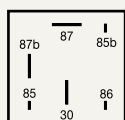
RI19



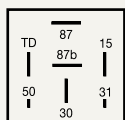
RI21



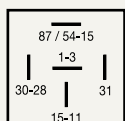
PINS 6



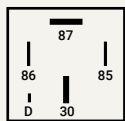
PINS 7



PINS 5



PINS 5



REF. MARCA BRAND REFERENCIA ORIGINAL ORIGINAL REFERENCE

<b>RI06</b>		OPEL	1238539 - 1238540
			1238549 - 1238966
			1238960



<b>RI08</b>	ALFA ROMEO	195051104300 - 605343160	
		AUDI/VW	X03952671
		CITROËN	95496621
		FIAT	60534316 - 7576067
			7628059 - 7750754
PEUGEOT	655522 - 95496621		



<b>RI13</b>	FORD	6161570 - 85AG9P704AA
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## RELÉ MULTIFUNCIÓN MULTIFUNCTION RELAY

<b>IE70</b>		AUDI/VW	3D0 951 253A
		SEAT	3D0 951 253A
		SKODA	3D0 951 253A



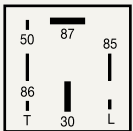
1 u.

# CENTRALES DE PRECALENTAMIENTO DIESEL

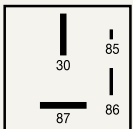
## PREHEATING CENTRALS FOR DIESEL ENGINES



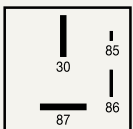
**PINS** 7



**PINS** 4



**PINS** 4



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP04</b>	AUDI/VW	171911261 - 443911261
	NAGARES	TPPSS712
<b>DP25</b>	AUDI/VW	357911253A - 104
<b>DP26</b>	AUDI/VW	357911253 - 103
	MERCEDES	0015452705



1 u.



DP04



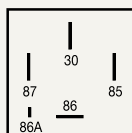
DP26



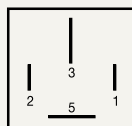
DP58



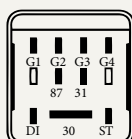
PINS 5



PINS 4



PINS 9



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP28</b>	AUDI/VW	165906381
<b>DP30</b>	AUDI/VW	7M0951253A
<b>DP58</b>	VW	038907281B
	NAGARES	TPDV2912



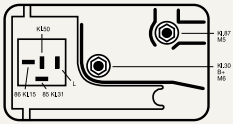
1 u.

# CENTRALES DE PRECALENTAMIENTO DIESEL

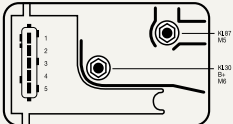
## PREHEATING CENTRALS FOR DIESEL ENGINES



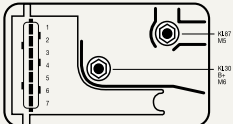
PINS 6



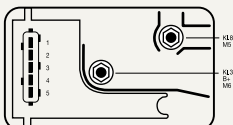
PINS 7



PINS 9



PINS 7



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP09</b>	CITROËN	598115
	FIAT	4792112-5946920-5990986
	PEUGEOT	598110
	ROVER	PRC5020
	SEAT	0581CR1 - 0581CR01
	NAGARES	TDP512
<b>DP15</b>	CITROËN	598119
	FIAT	961416778
	PEUGEOT	598119
	NAGARES	PPC512
<b>DP17</b>	CITROËN	598121 - 598126 - 96165823
	FIAT	46423043 - 9615938380
	PEUGEOT	598121 - 598126
		9616280080
	ROVER	NCJ100110
	NAGARES	PPC712
<b>DP18</b>	CITROËN	598124 - 96165824
	FIAT	961595948
	PEUGEOT	598124 - 96165824
	NAGARES	PPC512



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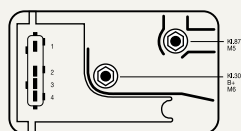
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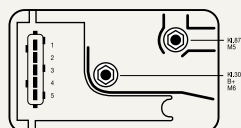
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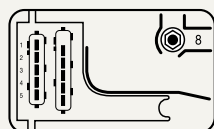
PINS 6



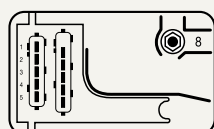
PINS 7



PINS 11



PINS 11



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP41</b>	CITROËN	598131 - 598138 - 598143
	FIAT	9619039780 - 9639912580
		1348881080
	PEUGEOT	598125 - 598131 - 598138
<b>DP43</b>	CITROËN	598143 - 598119
		9625203680
	PEUGEOT	598119 - 9625203680
		598125
	NAGARES	CEP612
<b>DP47</b>	FIAT	55193073
	ALFA ROMEO	55193073
<b>DP48</b>	FIAT	60653990
	ALFA ROMEO	60653990



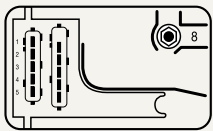
1 u.

# CENTRALES DE PRECALENTAMIENTO DIESEL

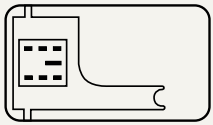
## PREHEATING CENTRALS FOR DIESEL ENGINES



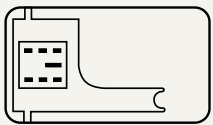
PINS 11



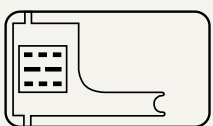
PINS 7



PINS 7



PINS 8



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP49</b>	FIAT	46807091
<b>DP45</b>	RENAULT	7700115078
	NISSAN	11067BN700
	OPEL	4409990 - 4506156
	NAGARES	BED712
<b>DP51</b>	OPEL	4409990 - 4506156
		4416764
	RENAULT	9640469680 - 7700115078
	CITROËN	9640469680
	PEUGEOT	55353011
	NISSAN	11067GD50A
	NAGARES	BDL712
<b>DP54</b>	RENAULT	8200859243
	OPEL	4419200 - 93862497
		598140
	NISSAN	11067JD50C - 2523080A0A
	NAGARES	FGRP812



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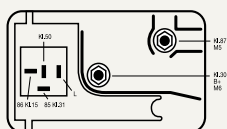
DP51



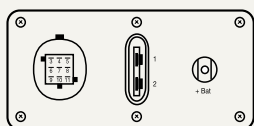
DP05



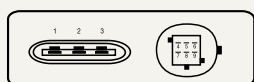
PINS 6



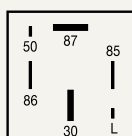
PINS 12



PINS 9



PINS 6



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP10</b>	ALFA ROMEO	116619601600
	RENAULT	7700757776 - 7700751089
		7700702747 - 7702089784
	ROVER	PRC5020
<b>DP11</b>	RENAULT	7700790579 - 7700851443
		7700867374 - 7700870715
		7700863454
	VW	893911261
<b>DP44</b>	GM	09108385
	RENAULT	7700109860
	OPEL	4400385
	NAGARES	BRE512
<b>DP05</b>	BMW	13631273139 - 61311358269
	CITROËN	5472928
	FORD	6143688 - 83BB6M092AA
		88BG8B658AA
	OPEL	090276101 - 1238532
		1238537-1238565-1238627
	VOLVO	35601160 - 3650116
	VW	022906059
	NAGARES	TPF612 - TPPF612

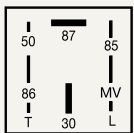


# CENTRALES DE PRECALENTAMIENTO DIESEL

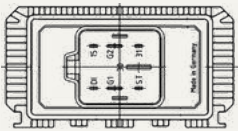
## PREHEATING CENTRALS FOR DIESEL ENGINES



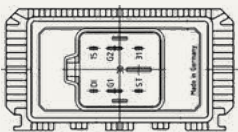
PINS 8



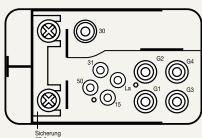
PINS 7



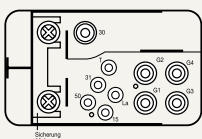
PINS 7



PINS 9



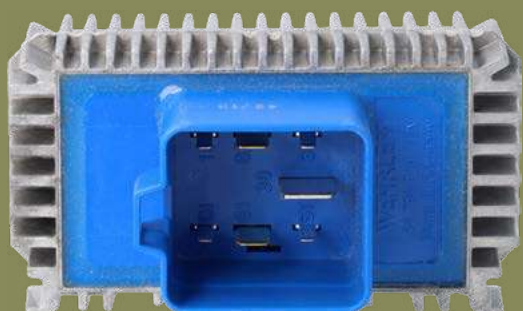
PINS 10



REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP50</b>	FORD	96VB6M092B
<b>DP55</b>	OPEL	6235303
<b>DP56</b>	OPEL NAGARES / MALHE	6235240 MH66
<b>DP31</b>	MERCEDES	0015459732 - 0025450532 0025450832 - 0055454132
<b>DP36</b>	MERCEDES	0085450032 - 0065458832 A0065458832-A0085450032



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DP56



DP31

DP

PINS 8

REF.	MARCA BRAND	REFERENCIA ORIGINAL ORIGINAL REFERENCE
<b>DP52</b>	MERCEDES	51799030 - A0255452832 A0005453516 - A6461536579
	NAGARES	TPMS412



PINS 10

<b>DP53</b>	MERCEDES	51799029 - A0005453616 A0255452932 - A6461536579
	NAGARES	TPMS612



IM

PINS 3

**MÓDULOS DE ENCENDIDO**  
IGNITION MODULES

<b>IM18</b>	VW	6N0905104 - 004028149 047905115 - 357905104 867905104A - 867905352
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PINS 6

<b>IM19</b>	VW	701905104 - 701905104A 867905105A
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1 u.



MZ13

ZZ12

SUZUKI PS610413 / NISSAN 26350G9801

ZZ24

SUZUKI PS610313 / NISSAN 26350G9802

# MINI ZUMBADORES ELECTRÓNICOS

## ELECTRONIC MINI BUZZERS



MZ13



MZ15



ZZ12



ZZ24



10 u.



10 u.

V	CONSUMO CURRENT mA	REF.	FRECUENCIA FREQUENCY	NIVEL SONIDO SOUND LEVEL
12	25	<b>MZ13</b>	400 Hz ± 100 Hz	75 dB - 30 cm
24	30	<b>MZ15</b>	400 Hz ± 100 Hz	80 dB - 30 cm
12	10	<b>ZZ12</b>	4100 Hz ± 500 Hz	85 db - 30 cm
24	10	<b>ZZ24</b>	4100 Hz ± 500 Hz	85 db - 30 cm



ZA14



RA01

# ZUMBADORES DE MARCHA ATRÁS

## REVERSE BUZZERS



ZA12



ZA14



ZA24



ZA25



RA01



1 u.

V

CONSUMO  
CURRENT  
mA

REF.

NIVEL SONIDO  
SOUND LEVEL

12	70	ZA12	>102 dB - 20 cm / 85 dB - 1m
12	70	ZA14	>102 dB - 20 cm / 85 dB - 1m
24	70	ZA24	>105 dB - 20 cm / 85 dB - 1m
12 / 24	30	ZA25	>108 dB - 20 cm / 96 dB - 1m



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### RELÉ ZUMBADOR BUZZER RELAY

12	-	RA01	>85 dB - 30 cm
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El relé de 3 x 6,35 pines emite un aviso sonoro cuando se abre la puerta del vehículo y las luces de cruce están encendidas.

The 3 x 6.35 pin relay emits an audible warning when the vehicle door is opened and the low beams are on.



DI Diodo  
Diode



TL Temporizador  
Timer



UC Unidad de elevación  
Window-lift unit

# PRODUCTOS GUILERA

## GUILERA'S PRODUCTS



PINS 2

V

A

REF.

MARCA  
BRAND

REF. ORIGINAL  
ORIGINAL REF.



12 / 24

3

**DI01**

GUILERA

070253

5



PINS 4

-

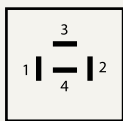
-

**TL01**

GUILERA

174505

1



PINS 18

**24**

-

**UC01**

NISSAN

28455-9X601

1

GUILERA

11F010

