

Interruptores y Pulsadores Retroiluminados (Automoción)

Back Light Switches and Push Buttons (For Vehicles)

Gama de interruptores modulares 12/24V diseñada especialmente para su uso en autocares, camiones, coches, construcción y maquinaria agrícola, así como en vehículos especiales.

Our range of modular switches DC12/24V has been specially designed for use in coaches, trucks, cars, construction and agricultural machinery, as well as in special vehicles.

Es extremadamente fácil de usar, gracias a la flexibilidad que ofrece a la hora de decidir dónde instalar los interruptores dentro de la cabina del vehículo.

It is extremely user-friendly, thanks to the flexibility offered when deciding where to install the switches within the vehicle cabin.

Nuestros interruptores, pulsadores y conmutadores pueden suministrarse para su utilización en vehículos de 12 ó 24 V.

Our Switches, Push Buttons and commutators can be supplied in 12/24Volts for its use in vehicles.

Amplia gama de funciones 12V / 24V

Wide range of different switch functions 12V / 24V

- o Hacer contacto / Cambiar contacto
- o Contacto momentáneo / Contacto mantenido
- o Función de bloqueo
- o Interruptor luz de peligro

- o Make contact / Changeover contact
- o Momentary contact / Maintained contact
- o Blocking function
- o Hazard light switch

**USADOS POR PRIMERAS MARCAS
SCANIA, RENAULT, MERCEDES...**

**USED BY PREMIUM BRANDS
SCANIA, RENAULT, MERCEDES...**



Extensa gama de símbolos: Para garantizar la correcta identificación de las distintas funciones a realizar. También podemos suministrar con símbolos especiales (según sus especificaciones).

Extensive range of symbols: To get the maximum right identification in the different functions to do. Also, it is possible to supply with special symbols (depending on specifications).



Retroiluminación: Todos nuestros modelos llevan iluminación LED, en color verde, del símbolo.

Piloto de Control: Pueden incorporar uno o dos pilotos luminosos (color rojo)

Hasta 4 LED's: 2 para la iluminación de símbolos y dos para controles



Back-illuminated: All our models have inside the LED illumination, in green colour, of symbol

Control light: It can incorporate also taillight bright (red colour).

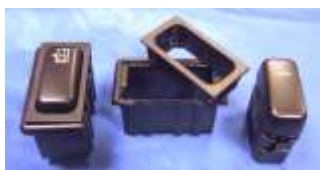
With maximum 4 LEDs: One per each symbol and one for each control light

Marco de montaje: Puede usarse individualmente o acoplarlo a los marcos existentes en el mercado de otros fabricantes



Mounting frame: It can be used individually or fitted to the existing frames in the market produced by other manufacturers

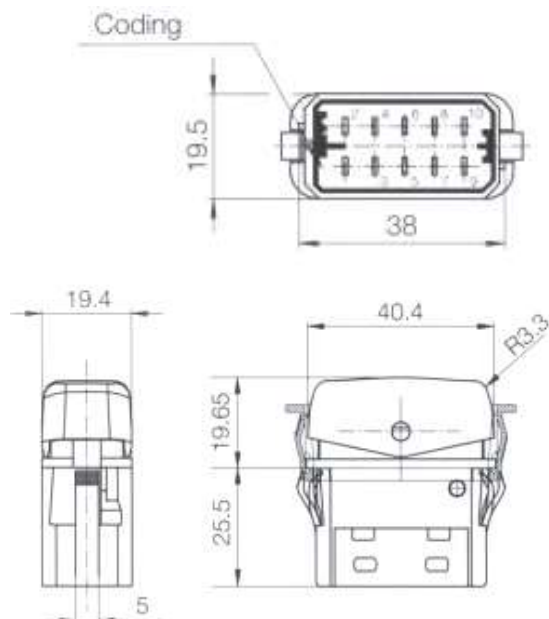
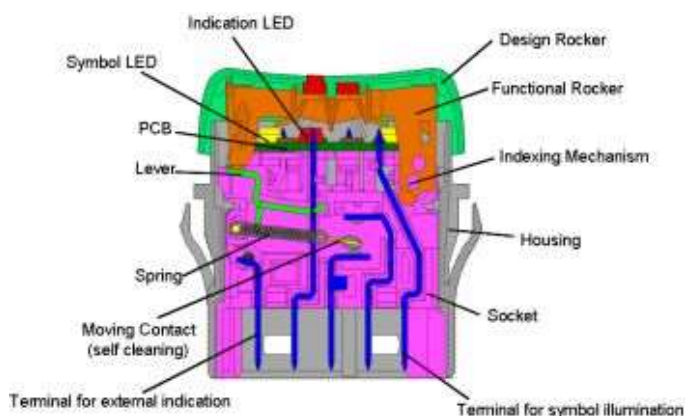
Opciones de montaje: Podemos suministrarlos individualmente con o sin el marco de montaje (para adaptar a los salpicaderos originales de los vehículos) o montados en una consola especial (tamaño, color, numero de huecos, etc...) especifica de cada cliente/vehiculo



Mounting options: We can supply them individually with or without mounting frame (to be adapted to the vehicle original dashboard) or mounted into a special housing (size, colour, number of holes, etc.) which is specific for each customer and/or vehicle.



Interruptores *Switches*



Detalles técnicos:

Orificio de montaje	19,8 mm x 41,8 mm
Material de la tapa	PC transparente, pintado
Material base	PA negro
Contactos del terminal	AgNi

Fuente de luz max. 4 LEDs:
 2 verdes para iluminación de los símbolos
 2 rojos x iluminación funciona activada
OTROS COLORES BAJO PEDIDO

Símbolo Marcado con láser según catálogo
 o especificación propia del cliente

Vida de servicio:
 5 mA / 450.000 ciclos (Ag gal AU)
 5A/24V inductiva / 270.000 ciclos
 4A/24V bombilla (75W) / 90.000 ciclos
 10A/24 V resistiva / 80.000 ciclos

Impermeabilidad IP 30

Temperatura de trabajo -40º +85ºC
 Temperatura de almacenamiento -40º +100ºC

Espesor salpicadero (tablero de instrumentos)
 en caso de instalación directa del interruptor: 2mm

Technical details:

<i>Installation opening</i>	<i>19,8 mm x 41,8 mm</i>
<i>Rocker material</i>	<i>PC transparent, painted</i>
<i>Base material</i>	<i>housing PA black</i>
<i>Terminal contacts</i>	<i>AgNi</i>

Light source max 4 LEDs:
2 x location lighting, green
2 x functional lighting, red
OTHER COLOURS ON DEMAND

*Symbol type lasered according to catalogue or
 customer-specific*

Service life
5 mA / 450.000 cycles (Ag gal AU)
5A /24V inductive / 270.000 cycles
4A /24V bulb (75W) / 90.000 cycles
10A/24 V resistive / 80.000 cycles

Impermeability IP 30

Operating temperature -40º +85ºC
Storage temperature -40º +100ºC

*Dashboard thickness n the case of direct
 installation of switch: 2mm*

Esquemas Interruptores

Switches Diagrams

I	— — ↓	— — ↓	— — ↓
I	Función <i>Function</i>	Posición del símbolo - Color LED del símbolo y del control <i>Symbol place - LED Colour of Symbol and control</i>	Símbolo <i>Symbol</i>
I	Función <i>Function</i>	00 = Símbolo abajo – LED Símbolo Verde – LED Control Rojo 01 = Símbolo abajo – LED Símbolo Rojo – LED Control Rojo 02 = Símbolo abajo – LED Símbolo Verde – LED Control Amarillo <i>00 = Down Symbol – LED Symbol Green – LED Control Red</i> <i>01 = Down Symbol – LED Symbol Red – LED Control Red</i> <i>02 = Down Symbol – LED Symbol Green – LED Control Yellow</i>	Símbolo <i>Symbol</i>


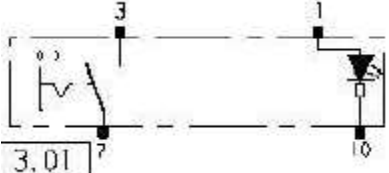

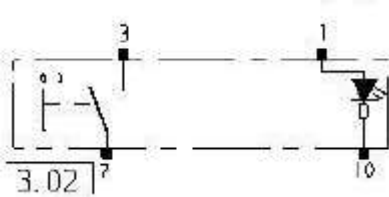

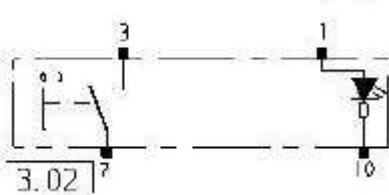

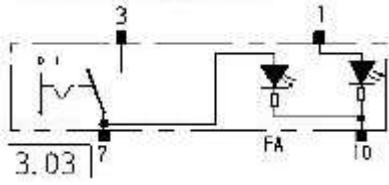


LED control VERDE
LED símbolo BLANCO

Control LED GREEN
Symbol LED WHITE

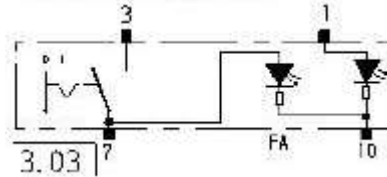
Para otras versiones consultar (símbolo arriba, otros colores LEDs para símbolo o control, etc...) Colores disponibles: Verde, rojo, amarillo, azul y blanco
NOTA: Todos los esquemas NO llevan LED de control

Ask us for other versions: (UP symbols, others colours LEDs for symbol or control, etc...)
Available Colours: Green, Red, Yellow, Blue and White
NOTE: All functions do not have LED control

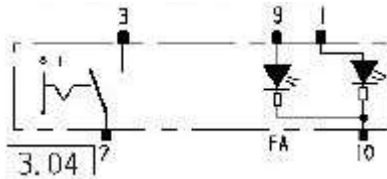
		101.00.____ Interruptor ON-OFF <i>Switch ON-OFF</i>
		102.00.____ Interruptor momentáneo (ON)-OFF <i>Momentary (ON)-OFF</i>
		102.01.____ Interruptor momentáneo (ON)-OFF Iluminacion simbolo LED Rojo <i>Momentary (ON)-OFF</i> Symbol light Red LED
		103.00.____ Interruptor ON-OFF con control <i>ON-OFF with CONTROL</i> ●

Esquemas Interruptores

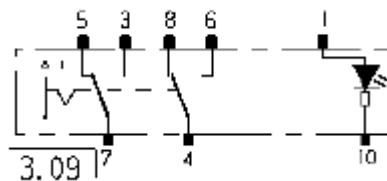
Switches Diagrams



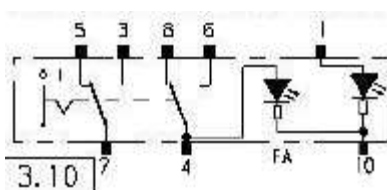
I03.02.____ Interruptor ON-OFF con control
ON-OFF with CONTROL ● (yellow)



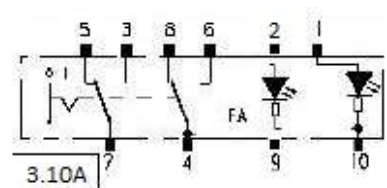
I04.00.____ Interruptor ON-OFF con control
ON-OFF with CONTROL ●



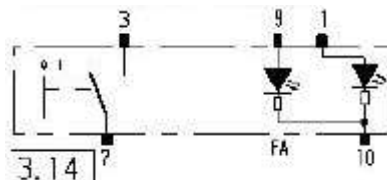
I09.00.____ Conmutador ON-OFF (doble circuito)
Conmutator 2 circuits ON-OFF



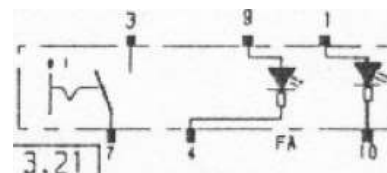
I10.00.____ Conmutador I-O (doble circuito) con control
ON-OFF with CONTROL ●



I10A.00.____ Conmutador I-O (doble circuito) con control
ON-OFF with CONTROL ●



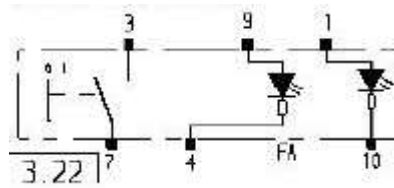
I14.00.____ Interruptor momentáneo (I)-O con control
Momentary (ON)-OFF with CONTROL ●



I21.00.____ Interruptor I-O con control independiente
ON-OFF with CONTROL ●

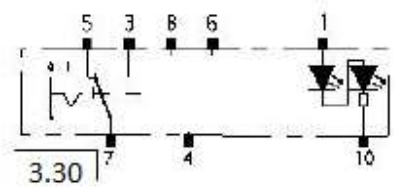
Esquemas Interruptores

Switches Diagrams



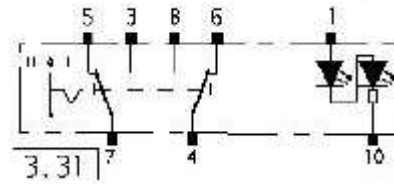
I22.00.____ Interruptor momentáneo (I)-O con control independiente

Momentary (ON)-OFF with CONTROL ●



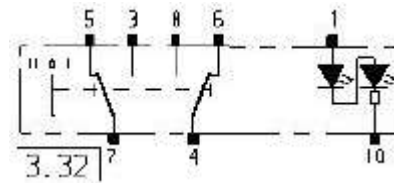
I30.00.____ Interruptor I-O

ON-OFF



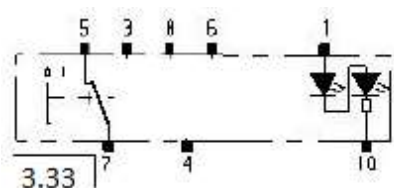
I31.00.____ Interruptor I-O-II

ON-OFF-ON



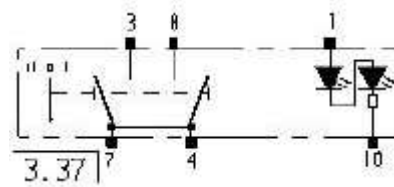
I32.00.____ Interruptor momentáneo (I)-O-(II)

Momentary (ON)-OFF-Momentary (ON)

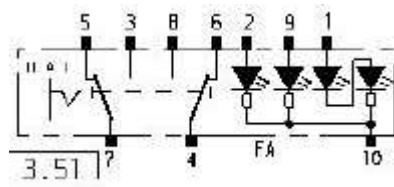


I33.00.____ Interruptor momentáneo (I)-O

Momentary (ON)-OFF



I37.00.____
Interruptor momentáneo (I)-O-(II)

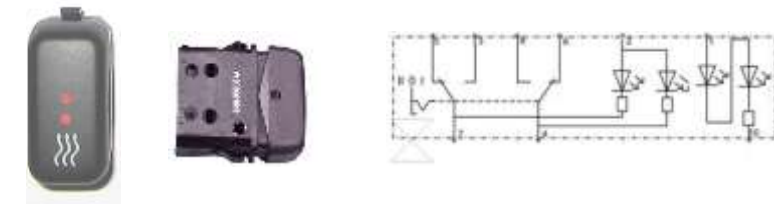


I51.00.____ Interruptor I-O-II con control

ON-OFF-ON with CONTROL ● ●

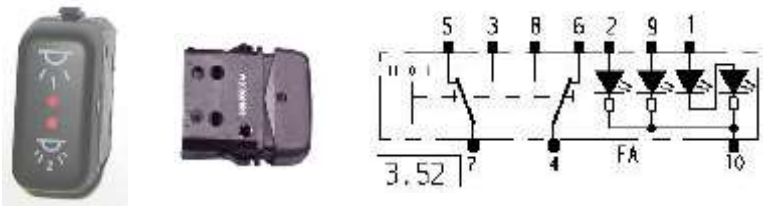
Esquemas Interruptores

Switches Diagrams



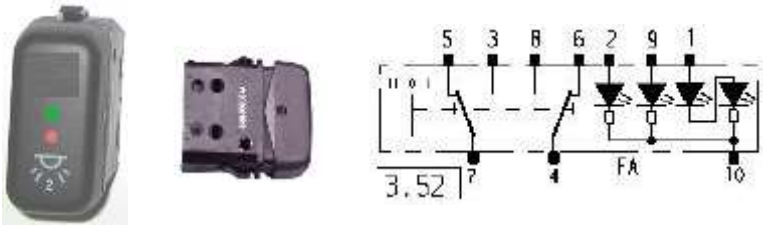
I51E.00.____ Interruptor I-O-II con control

ON-OFF-ON with CONTROL ● ●



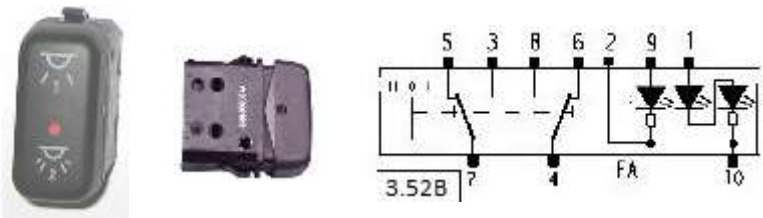
I52.00.____ Interruptor momentáneo (I)-O-(II) con control

Momentary (ON)-OFF-Momentary (ON) with CONTROL ● ●



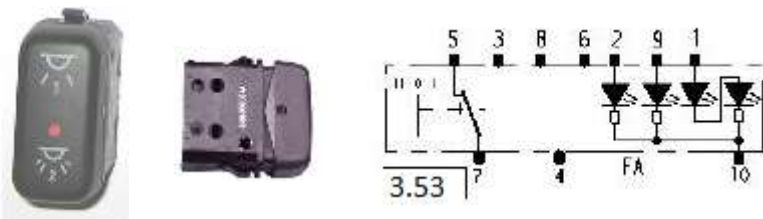
I52A.00.____ Interruptor momentáneo (I)-O-(II) con control

Momentary (ON)-OFF-Momentary (ON) with CONTROL ● ●



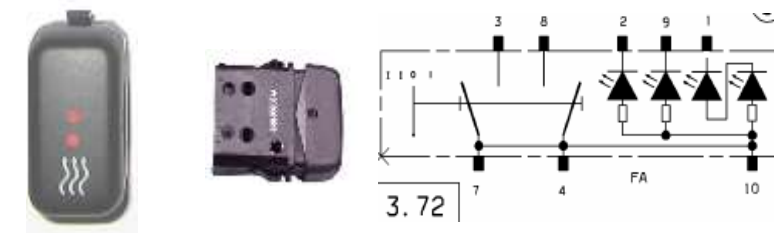
I52B.00.____ Interruptor momentáneo (I)-O-(II) con control

Momentary (ON)-OFF-Momentary (ON) with CONTROL ●



I53.00.____ Interruptor momentáneo (I)-O-(II) con control

Momentary (ON)-OFF-Momentary (ON) with CONTROL ●

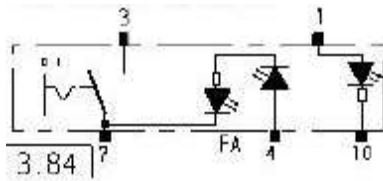


I72.00.____ Interruptor I-O-II con control

ON-OFF-ON with CONTROL ● ●

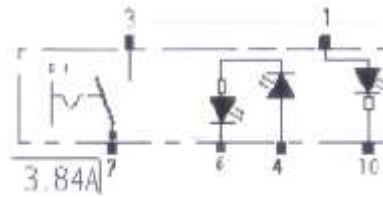
Esquemas Interruptores

Switches Diagrams



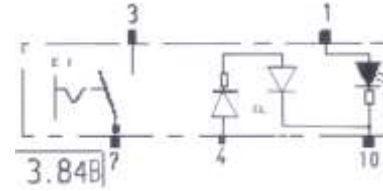
I84.00.____ I-O Warning

ON-OFF



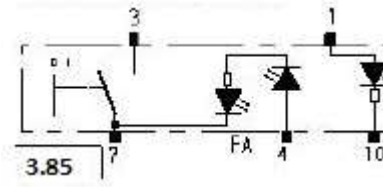
I84A.00.____ I-O Warning

ON-OFF



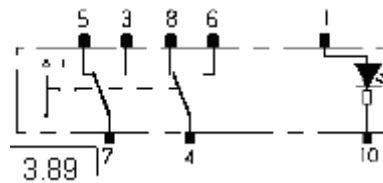
I84BA.00.____ I-O Warning

ON-OFF



I85.00.____ Interruptor Momentaneo (I)-O Warning

Momentary (ON)-OFF



I89.00.____ Conmutador Momentaneo I-O (doble circuito)

Momentary (ON)-OFF – Double circuit

100.99.USB1



Cargador USB 3,1A

USB Charger 3,1A

100.99.USB



Adaptador USB A Macho a USB A hembra

Male USB A to Female USB A adapter

1459.____

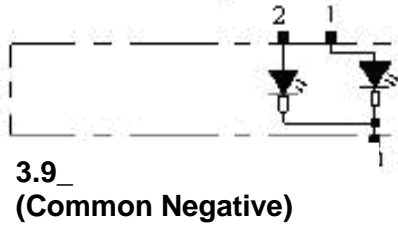


Con tapa de seguridad

With Security cover

Esquemas Interruptores

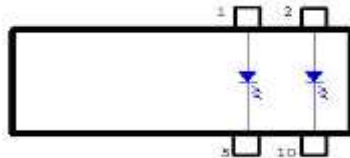
Switches Diagrams



3.9_
(Common Negative)

19_.00. Control LEDs negativo común

3.91 Rojo – Rojo	3.91 Red – Red
3.92 Rojo – Verde	3.92 Red – Green
3.93 Verde – Verde	3.93 Green – Green
3.94 Amarillo – Verde	3.94 Yellow – Green



3.9_A
(Independents LED lights)

19_A.00. Control LEDs independientes

3.91A Rojo – Rojo	3.91A Red – Red
3.92A Rojo – Verde	3.92A Red – Green
3.93A Verde – Verde	3.93A Green – Green
3.94A Amarillo – Verde	3.94A Yellow – Green



A90093/LXX

A90093/R



Interruptor con tapa seguridad y LED

Switch with Security cover and LED light



Interruptor con tapa seguridad

Switch with Security cover




Para otros modelos consultar

Ask us about other drawing

A902200XX Series

Pulsador iluminado

Illuminated Pushbutton

XX=AM	Ambar		Yellow
XX=AZ	Azul		Blue
XX=BL	Blanco		White
XX=RJ	Rojo		Red
XX=VD	Verde		Green

Ø Ext 26,3mm
Ø Int 22mm



Accesorios

Accessories

100.99.000



Carcasa Interruptor vacía
Full switch housing

596273

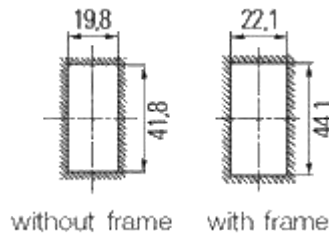


Tapa cobertura
Cover

IAK52003 Connector
ZZ7706/S Female Terminals



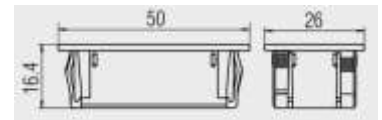
Agujero de instalación
Installation opening



I353.021
Marco de montaje
Mounting Frame



26 x50 mm



Marco 3 huecos
3 holes frame

595502.69x47mm



Marco 6 huecos
6holesframe

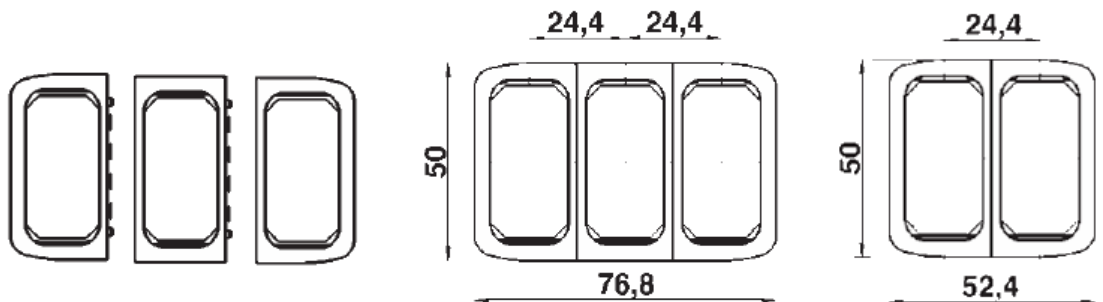
595902. 136x47mm



Marcos modulares

Modular frames

I353.02LH Left
I353.02MH Middle
I353.02RH Right



- ZZ1080 Chapa para 2 interruptores / 2 Switches metal frame
- ZZ1079 Chapa para 3 interruptores / 3 Switches metal frame
- ZZ1085/4 Chapa para 4 interruptores / 4 Switches metal frame
- ZZ1085 Chapa para 5 interruptores / 5 Switches metal frame
- ZZ1085/6 Chapa para 6 interruptores / 6 Switches metal frame
- ZZ1085/7 Chapa para 7 interruptores / 7 Switches metal frame
- ZZ1085/9 Chapa para 9 interruptores / 9 Switches metal frame

Consolas especiales para cada cliente

Special frames for each customer



ZZ1085/6 For MB Sprinter

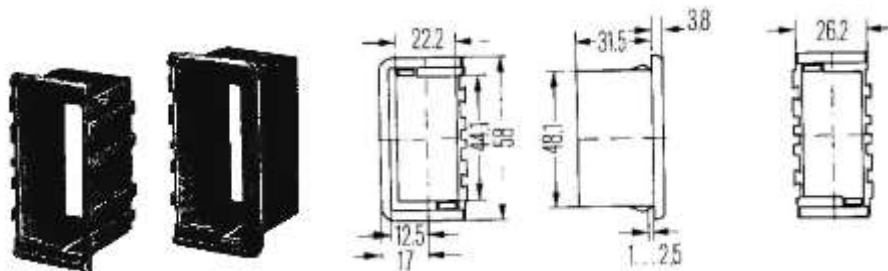
Curvada / Curved



Marcos modulares

Modular frames

- 594802 Final pcs
- 594801 Central pcs



Marco 3 huecos
3 holes frame

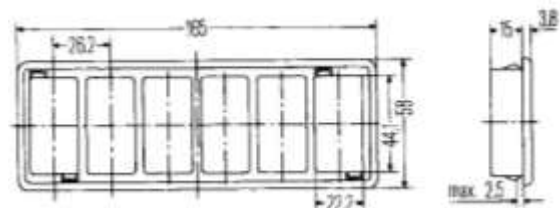
595502



595902 165x58mm



Marco 6 huecos
6holesframe



OPCIONALES

Cualquier símbolo que pueda necesitar listo en 48 horas

Leds de super alto brillo o de otros colores

Tapa en otros colores

OPTIONALS

Any symbol that you could need ready in 48 hours

Super high bright LED or other leds colours

Cover in other colours

