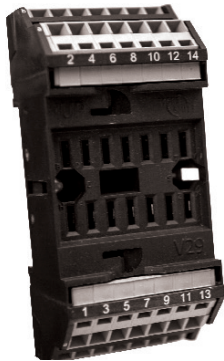


/// Socket, spring clamp terminal, wall / rail mount

Sockets for extreme reliability, within long endurance applications and harsh environments

V29 Socket



Features

- Surface / wall and 35 mm rail mount
- Sturdy spring clamp terminals
- Twin connection per relay contact
- Suitable for all railway and industry D- & D-U relay series.
- No internal solderings / connections
- Touch proof IP20
- Height saving 35 mm rail mounting
- Easy & quick installation (up to 75% reduction of wiring time)
- Positive mechanical keying
- Trifurcated female receiver for tight grip relay pin
- Clear terminal ID

Description

The V29 is a surface / wall and 35 mm rail mount relay socket. The V29 socket has two highly reliable spring clamp terminals per relay contact, so looping/daisy chaining can be done on the socket and no external connector or terminal is needed.

The spring clamp terminal makes a quick connection possible by pressing the spring with a flat-bladed screwdriver and inserting the stripped wire. Solid and (fine) stranded wires up to 2.5 mm² can be inserted in the spring clamp terminals. This quick & easy wiring method saves up to 75% wiring time compared with classic technology, like screw terminals.

To prevent fault relay placement the socket can be equipped with mechanical keying to accept only designated identical keyed relays.

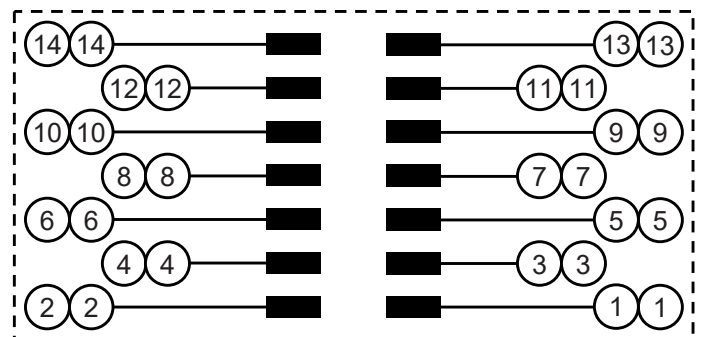
Application

The V29 relay socket is suitable for general railway and industry applications with a space saving design. Installation and replacement of relays is made easy and cost saving. No maintenance is required for the user.

Suitable for all railway and industry D- & D-U relay series.

Connection diagram

Top view



Railway compliancy

EN 50155
 IEC 60571
 EN 45545-2
 NF F16-101/102
 NF F 62-002

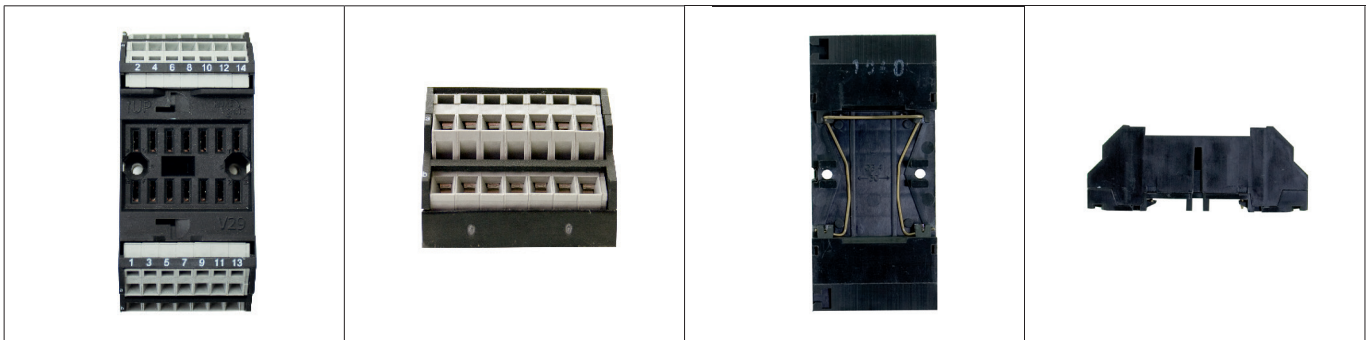
Industry compliancy

EN 60947-5-1
 IEC 61810

Technical specifications

Technical characteristics

Contact rating		10 A
Dielectric strength	IEC 60255, IEC 60571	3500 V, 50 Hz, 1 min
Protecting category	IEC 60529	IP20
Mounting		Surface / wall and 35 mm rail
Max. ambient temperature		80 °C
Weight		90 g
Dimensions		87 x 40 x 34.1 mm
Wire size		0.08 - 2.5 mm ² maximum
Wire stripping length		6 mm
Material		Polyamide 66, 30% glass
Socket contacts		Spring clamp terminal
Max. torque value mounting screws		1 Nm
Accessories		A104 Key receptable



For more detailed technical specifications, drawings and ordering information, go to the product page on www.morssmitt.com

 **Over 10 million Mors Smitt relays in use in applications worldwide!**

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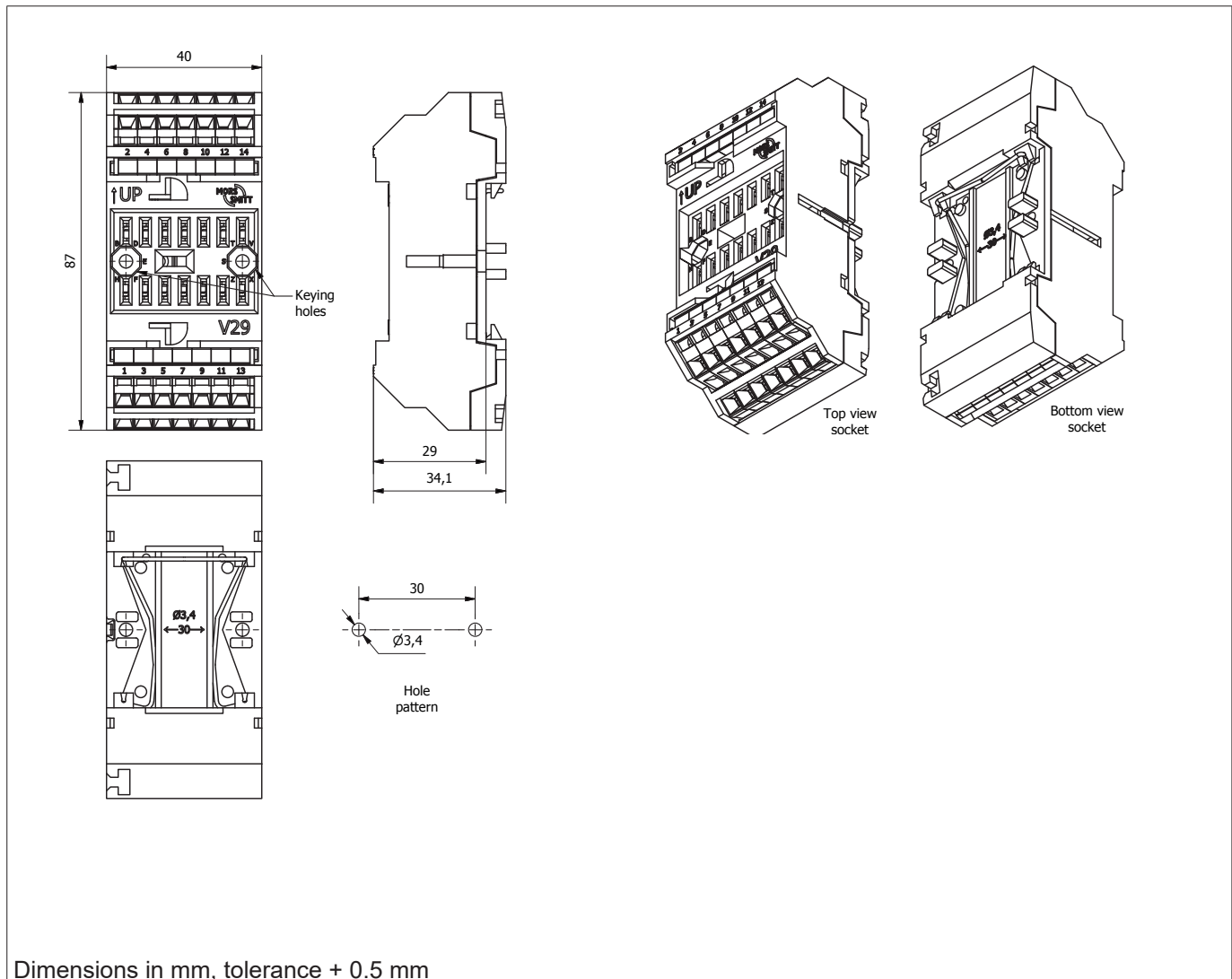
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Socket V29

Dimensions



Railway compliancy

EN 50155	Railway applications - Rolling stock - Electronic equipment
IEC 60571	Railway applications - Electronic equipment used on rolling stock
NF F16-101/102	Railway rolling stock - Fire behavior
EN 45545-2	Railway applications - Fire protection on railway vehicles Part 2: Requirements for fire behavior of materials and components
NF F 62-002	Railway rolling stock - On-off contact relays and fixed connections

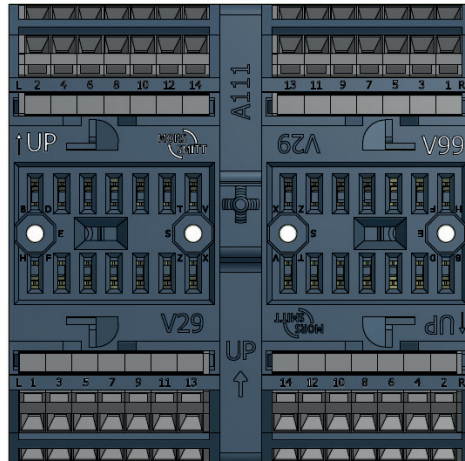
Industry compliancy

EN 60947-5-1	Electromechanical control circuit devices and switching elements
IEC 61810	Electromechanical elementary relays

Socket
V29

V99

V99 spring clamp terminal relay socket for 8 contact relays (D8 or KDN relays).

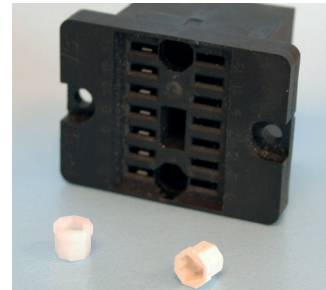


For detail see DS-V99 socket

Tri-furcated female receiver for tight grip relay pin



Mechanical keying relay and socket (optional)



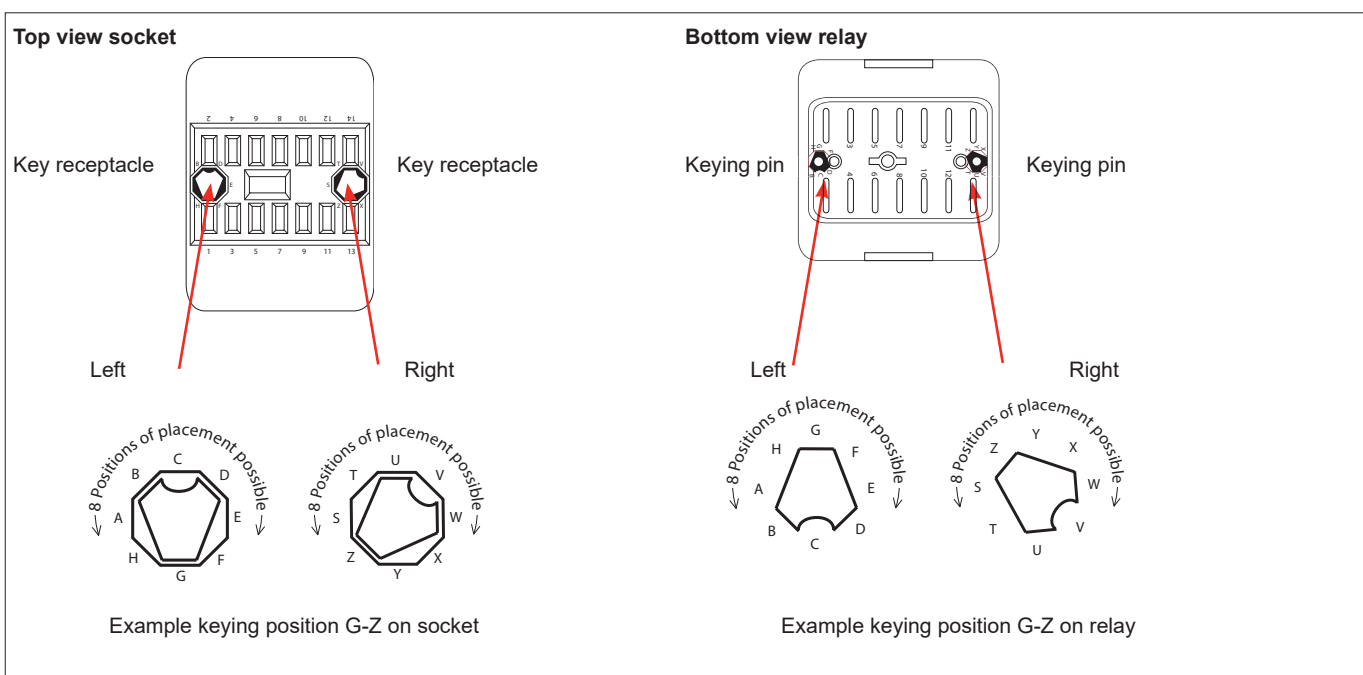
Function:

- To prevent wrong installation
- To prevent damage to equipment
- To prevent unsafe situations

Using keyed relays and sockets prevents a relay is inserted in a wrong socket. For example it prevents that a 24 VDC relay is put in a 110 VDC circuit. Positive discrimination is possible per different function, coil voltage, timing, monitoring, safety and non-safety.

The D-relay socket keying option gives $8 \times 8 = 64$ possibilities. Upon ordering the customer simply indicates the need for the optional keying. Mors Smitt will assign a code to the relay and fix the pins into the relay. The sockets are supplied with loose key receptacles. Inserting the keys into the socket is very simple and self explaining.

Remark: Sockets and relay shown are examples.



Installation and inspection

Installation

Before installation or working on the relay: disconnect the power supply first!

Install socket and connect wiring according to the terminal identification. Plug relay into the socket ensuring there is no gap between the bottom of relay and the socket. Reverse installation into the socket is not possible due to the mechanical blocking snap-lock feature.

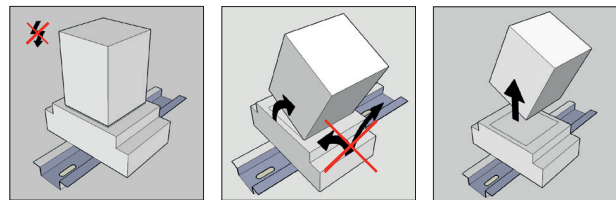
No external retaining clip needed as the 'snap-lock' will hold the relay into the socket under all circumstances and mounting directions (according shock & vibration requirements IEC 61373, Category I, Class B, Body mounted). If regulations require an external retaining clip, this is available as well. For more information see the datasheet of the retaining clips.

When rail mounting is used, always mount the socket in the direction of the UP arrow.

The socket is designed to keep the relays in place on the rail, but not to avoid any sideways movement on the rail. Both the socket and the rail have dimensional tolerances, so depending on how these tolerances stack up, the socket can sometimes slide more or less. This can be prevented by commercially available end stops not manufactured by Mors Smitt. This prevents any sliding of the relay sockets or any other items installed along the rail.

Warning!

- To remove relays from the socket, employ up and down lever movements. Sideway movement may cause damage to the coil wires



When plugging the relay into the socket, the female trifurcated receivers will automatically cut through the corrosion on the pins and guarantee a reliable connection.

Inspection

If the socket does not work after inspection of the correct wiring and relay connection, replace the unit with a similar model.

When returning products for investigation, please provide all information on the RMA form. Send defective products back to the manufacturer for repair or replacement. Normal wear and tear or external causes are excluded from warranty.

Socket V29

Ordering codes

 V29	 V99	 A104		
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Article no.	Code	Description
338000610	V29	Spring clamp terminal relay socket
338003950	V99	Spring clamp terminal relay socket for 8 contact relays
378690100	A104	Key receptacle

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