V32 socket - PCB mount

Datasheet

Features

- PCB mount
- Space saving
- Suitable for all D-U relay series
- Bifurcated female receiver for tight grip relay pin
- Clear terminal ID

Benefits

- Proven reliable
- Long term availability
- Easy to maintain
- Low life cycle cost
- No maintenance

Railway compliancy

- EN 50155 Electronic equipment used on rolling stock for railway applications
- IEC 60571 Electronic equipment used on railway vehicles
- NF F 16-101/102, TS 45545-2 Fire behaviour - Railway rolling stock
- NF F 62-002 On-off contact relays and fixed connections

Description

The V32 is a relay socket for soldering on PCB. The relay will be plugged into the socket, the socket will be soldered on the PCB.

There is only one way of connecting the relay to the socket to guarantee correct placement of the relay.

Application

The V32 relay socket is suitable for general railway 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 D-U relay series

V32 socket
Technical specifications

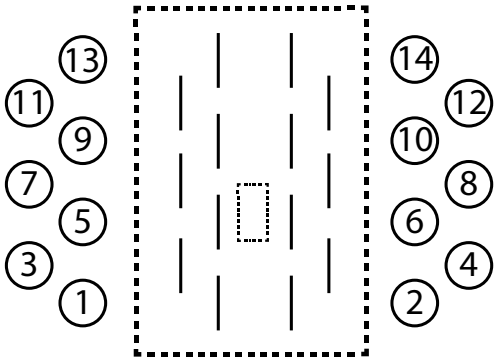



Technical characteristics

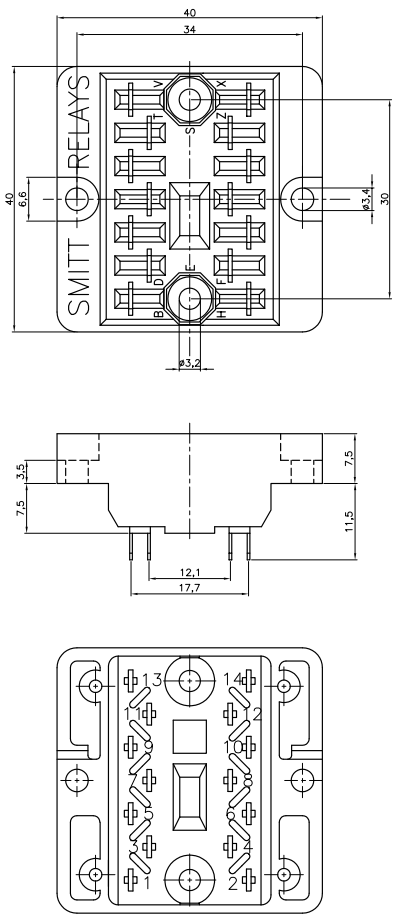
Contact rating	8 A
Contact size	5 x 1 x 0.4 mm
Dielectric strength	IEC 60255 / IEC 60077, 2500 V, 50 Hz, 1 min
Protecting category	IEC 60529, IP20 (relay side)
Mounting	PCB mounting
Max. ambient temperature	80 °C
Weight	16 g
Dimensions	40 x 40 x 15 mm
Material	Polyamide 66, 30% glass
Max. torque value mounting screws	1 Nm
Accessories	A104 Key receptacle
	Spacer

Connection diagram

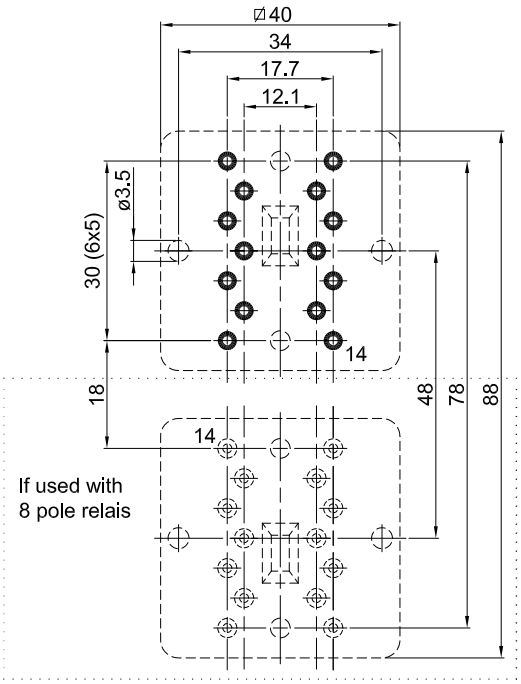
Bottom view



V32 socket
Drawings & dimensions



V32 socket



Hole size: Ø 1.5 mm recommended
Spot size: Ø 3.2 mm recommended

PCB grid

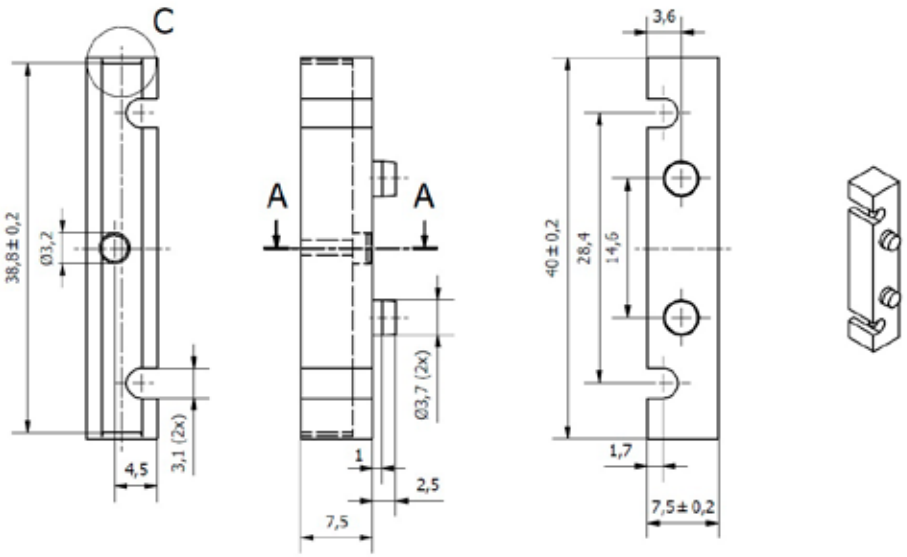
Dimensions in mm, tolerance ± 0.5 mm

V32 socket
Mounting

The socket can be fastenend to the PCB via 2 screws in the keying holes, via 2 screws in the holes at the sides or via 4 screws in the holes on the corners (screw from below to top).
When the socket is fastened to the PCB via 2 screws at the side, 2 spacers should be used as indicated in the picture.

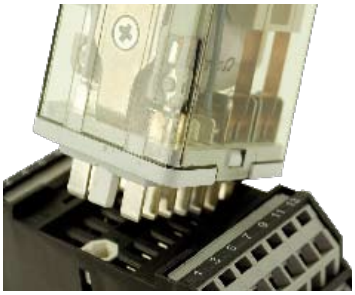
Socket with spacers

Spacer



V32 socket
Keying

Mechanical keying relay and socket (optional)



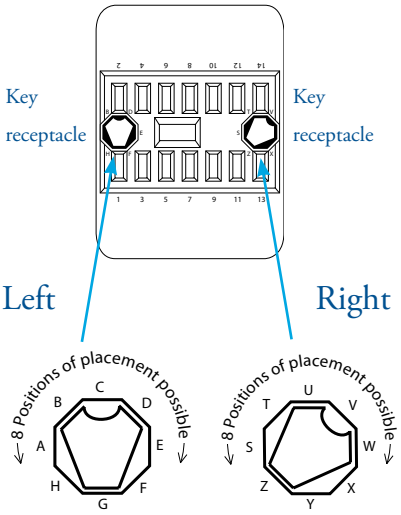
Function:
- To prevent wrong installation
- To prevent damage to equipment
- To prevent unsafe situations

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

The D-Series relay socket keying option gives 8 x 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.

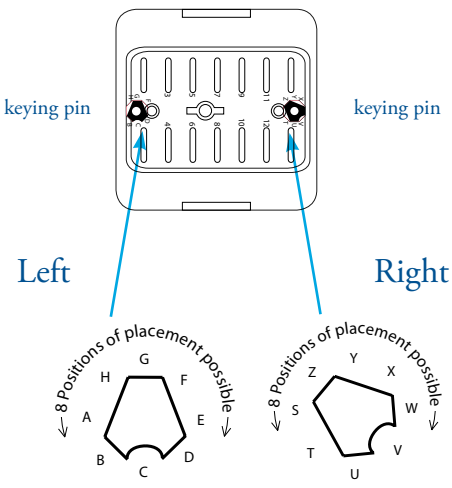
Remark± socket and relay type are only examples.

Top view socket



Example keying position G-Z on socket

Bottom view relay



Example keying position G-Z on relay

V32 socket
Instructions

Installation & inspection

Installation

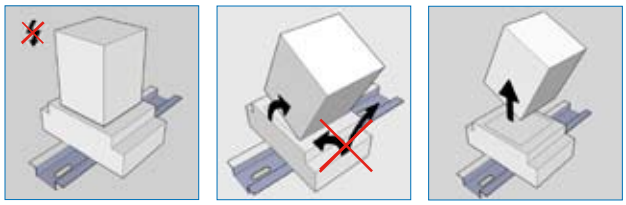
Before installation or working on the relay: disconnect the power supply first!

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.

Warning!

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



Remark: socket and relay type are only examples.
When plugging the relay into the socket, the female bifurcated 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.

V32 socket
Ordering possibilities

V32

A104

Spacer

Article nr	Code	Description
338000561	V32	Relay socket for soldering on PCB
378690100	A104	Key receptacle
560540015		Spacer

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