/// Socket, PCB mount

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

V18
Socket

Features

- PCB mounting
- Integrated retaining clip
- Space saving
- Suitable for all CU-relays
- Postive mechanical keying
- Bifurcated female receiver for tight grip relay pin

Description

The V18 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.

Equipped with an integrated retaining clip.

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

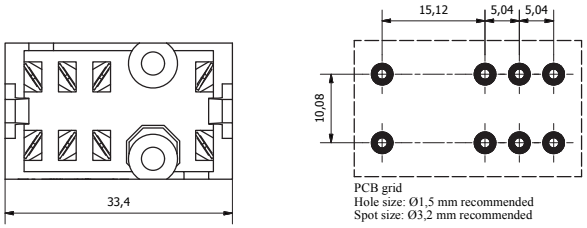
Application

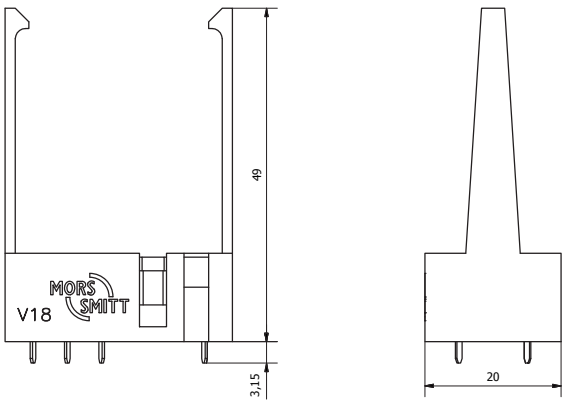
The V18 relay socket is suitable for general railway applications with a space saving design. Installation and replacement of relays is made easy and cost saving. No maintenance is required for the user.

Suitable for all CU relay series.

Drawing

Dimensions in mm, tolerance ± 0.5 mm





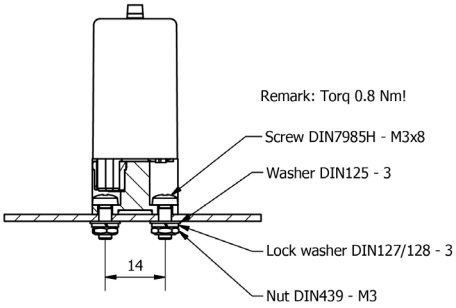
Railway compliancy

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

Socket
V18

Technical specifications

Technical characteristics

Contact rating		8 A
Non-repetitive peak current	NF F 62-002	200 A / 10 ms
Dielectric strength	IEC 60255, IEC 60571	2500 V, 50 Hz, 1 min
Protecting category	IEC 60529	IP20 (relay side)
Mounting		PCB mounting Recommended to fasten the socket with screw(s) to the PCB, example: 
Max. ambient temperature		80 °C
Weight		9.7 g
Dimensions		49 x 33.4 x 20 mm
Material		Polyamide 66, 30% glass
Accessories		A171 CU extractor

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 rail transport applications worldwide!

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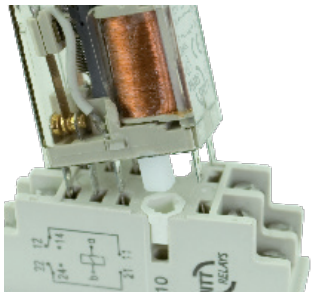
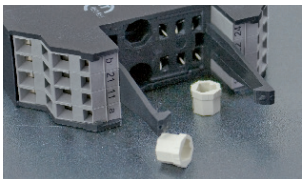
Mechanical keying relay and socket (optional)





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

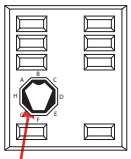
Using keyed relays and sockets prevents a relay being inserted in a wrong socket. For example it prevents placing a 24 VDC relay in a 110 VDC circuit. Positive discrimination is possible per different funtion, coil voltage, timing, monitoring, safety and non-safety.

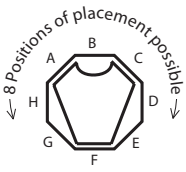
The CU-series relay socket keying option gives 8 possibilities. Upon ordering the customer simply indicates the need for the optional keying. Mors Smitt will assign a code to the relay and fix the pins into the relay. The sockets are supplied with loose key receptacles. Inserting the keys into the socket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

Remark: Sockets and relay shown are examples.

Top view socket

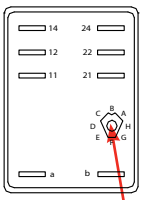
Key receptacle



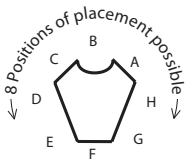


Example keying position B on socket

Bottom view relay



Keying pin



Example keying position B on relay

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.

Warning!
- To remove relays from the socket, employ left en right lever movements. Up and down movement may cause damage to the relay.

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.

Socket
V18

Ordering codes

 V18	 A171			

Article no.	Code	Description
338000620	V18	Relay socket for soldering on PCB
502110000	A171	CU extractor

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