

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

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





#### **Features**

- Surface / wall and 35 mm rail mount
- Spring clamp terminals
- Integrated retaining clip
- Space saving
- Suitable for all CU relay series
- Up to two wires of 2.5 mm<sup>2</sup> per connection terminal
- · Positive mechanical keying
- · Optional diode or double zener protection device
- Bifurcated female receiver for tight grip relay pin
- Clear terminal ID

# Description

The V17 is a surface / wall and 35 mm rail mount relay socket. The V17 socket has two spring terminals per relay contact suitable for two stripped wires up to 2.5 mm2, so looping/daisy chaining can be done on the socket and no external connector or terminal is needed.

Quick connection by pressing the spring terminal with a flat-bladed screwdriver and inserting the stripped wire.

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.

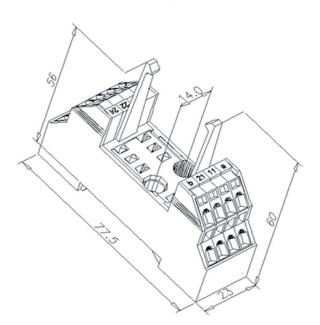
### **Application**

The V17 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 IEC 60715 NF F16-101/102 NF F 62-002



# **Technical specifications**

Socket

### 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. 2500 V between terminals and mounting plate
Protecting category	IEC 60529	IP20
Mounting		Surface / wall mounting or 35 mm rail mounting
Max. ambient temperature		80 °C
Weight		48 g
Dimensions		65 x 23 x 20 mm
Wire size		0.8 - 2.5 mm <sup>2</sup>
Wire stripping length		6 mm
Material		Polyamide 66 , 30% glass
Electronic components		Back EMF protection diode BYW56 (+ at a) (optional) Double zener diode 1.5KECA (optional)
Max. torque value mounting screws		0.6 Nm
Accessories		A104 key receptacle, A171 CU extractor



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

## **P**Over 10 million Mors Smitt relays in use in rail transport applications worldwide!

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# Mechanical keying relay and socket (optional)





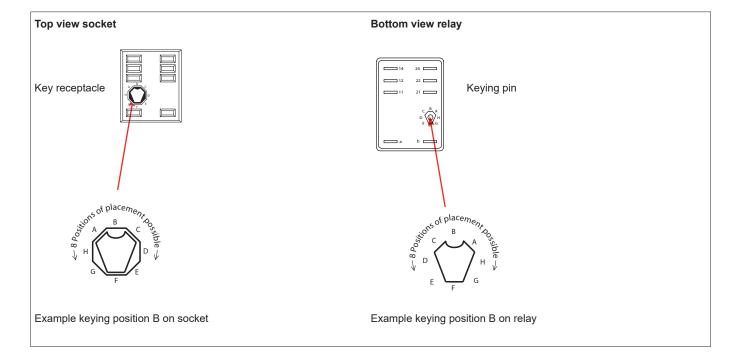
#### Function:

- 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.





## 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. Don't install the socket with the pinning on top of the rail (make sure "b 21 11 a" is not upside down).

#### 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.



# Ordering codes



Article no.	Code	Description
338001400	V17	Cage clamp terminal relay socket
338001401	V17-D	Cage clamp terminal relay socket with diode
338001402	V17-Q1	Cage clamp terminal relay socket with double zener (nom. voltage relay: 12 V - 30 V)
338001403	V17-Q2	Cage clamp terminal relay socket with double zener (nom. voltage relay: 30 V - 45 V)
338001404	V17-Q3	Cage clamp terminal relay socket with double zener (nom. voltage relay: 45 V - 65 V)
338001405	V17-Q4	Cage clamp terminal relay socket with double zener (nom. voltage relay: 65 V - 90 V)
338001406	V17-Q5	Cage clamp terminal relay socket with double zener (nom. voltage relay: 90 V - 150 V)
378690100	A104	Key receptacle
502110000	A171	CU extractor

X8	DIN marking
	24 22 12 14
	24 22 12 14
	1 1 1 1 A2 21 11 A1
	A2 21 11 A1
	Example: V17-X8
	V17-DX8
	etc.



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