

/// Socket, screw terminal, wall/rail mount

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

V16 Socket

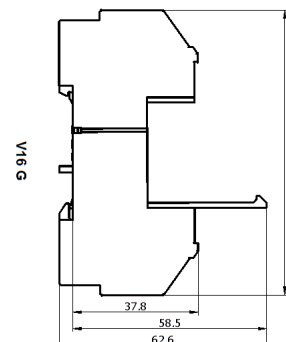
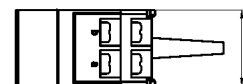
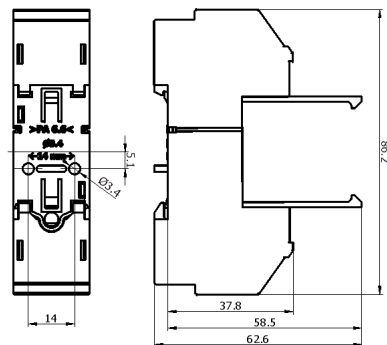


Features

- Surface / wall and 35 mm rail mount
- Screw terminals
- Integrated retaining clip
- Space saving
- Suitable for all CU relay series
- Up to two wires of 3.3 mm² per connection terminal
- Positive mechanical keying
- Optional diode or double zener protection device
- Bifurcated female receiver for tight grip relay pin
- Clear terminal ID

Drawing

Dimensions in mm, tolerance ± 0.5 mm



Description

The V16 is a surface / wall and 35 mm rail mount relay socket. The V16 socket is suitable for two stripped wires up to 3.3 mm², so looping/daisy chaining can be done on the socket and no external connector or terminal is needed.

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 V16 relay socket is suitable for general railway applications with a space saving design. Installation and replacement of relays is easy and cost saving. No maintenance is required for the user.

Suitable for all CU relay series.

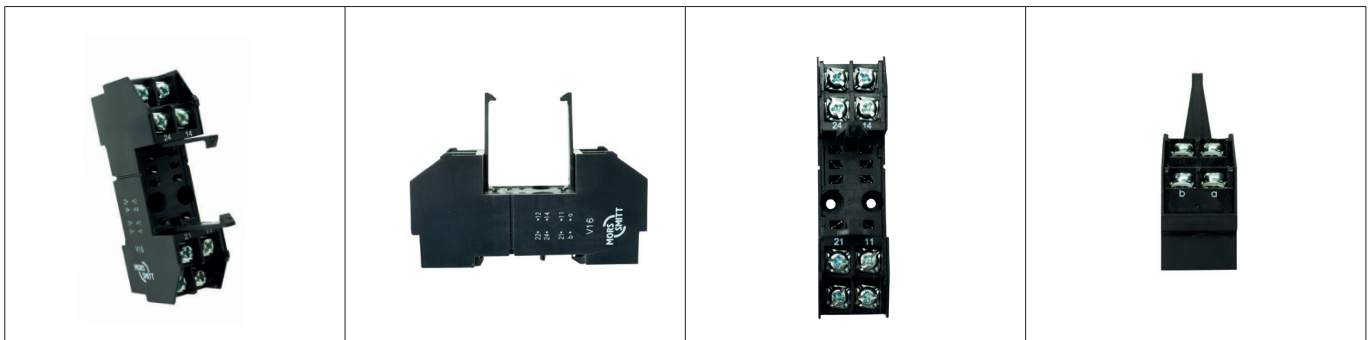
Railway compliancy

- EN 50155
- IEC 60571
- IEC 60715
- NF F16-101/102
- NF F 62-002

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 | - 4000 V, 50 Hz, 1 min between coil and contacts - 2500 V, 50 Hz, 1 min between contacts sets - 2500 V between terminals and mounting plate |
| Mounting | | Surface / wall mounting or 35 mm rail mounting |
| Max. ambient temperature | | 80 °C |
| Weight | | 52 g |
| Dimensions | | 87 x 23 x 63 mm |
| Wire size | | 0.34 - 3.3 mm ² |
| Wire stripping length | | 6-7 mm |
| Material | | Polyamide 66 , 30% glass |
| Integrated retaining clip | | Standard with 2 clips, optional with 1 clip for easier removal of relay (option G) |
| Electronic components | | Back EMF protection diode BYW56 (+ at a) (optional) Double zener diode 1.5KE...CA (optional) |
| Max. torque value | mounting screws terminal screws | 0.6 Nm 1.13 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

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

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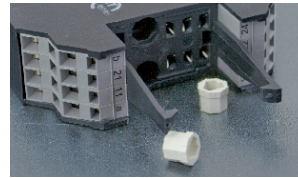
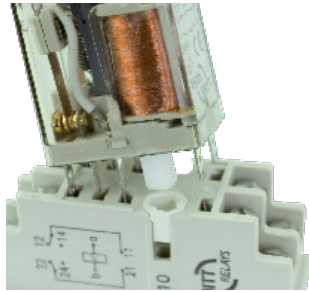
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Socket V16

Mechanical keying relay and socket (optional)



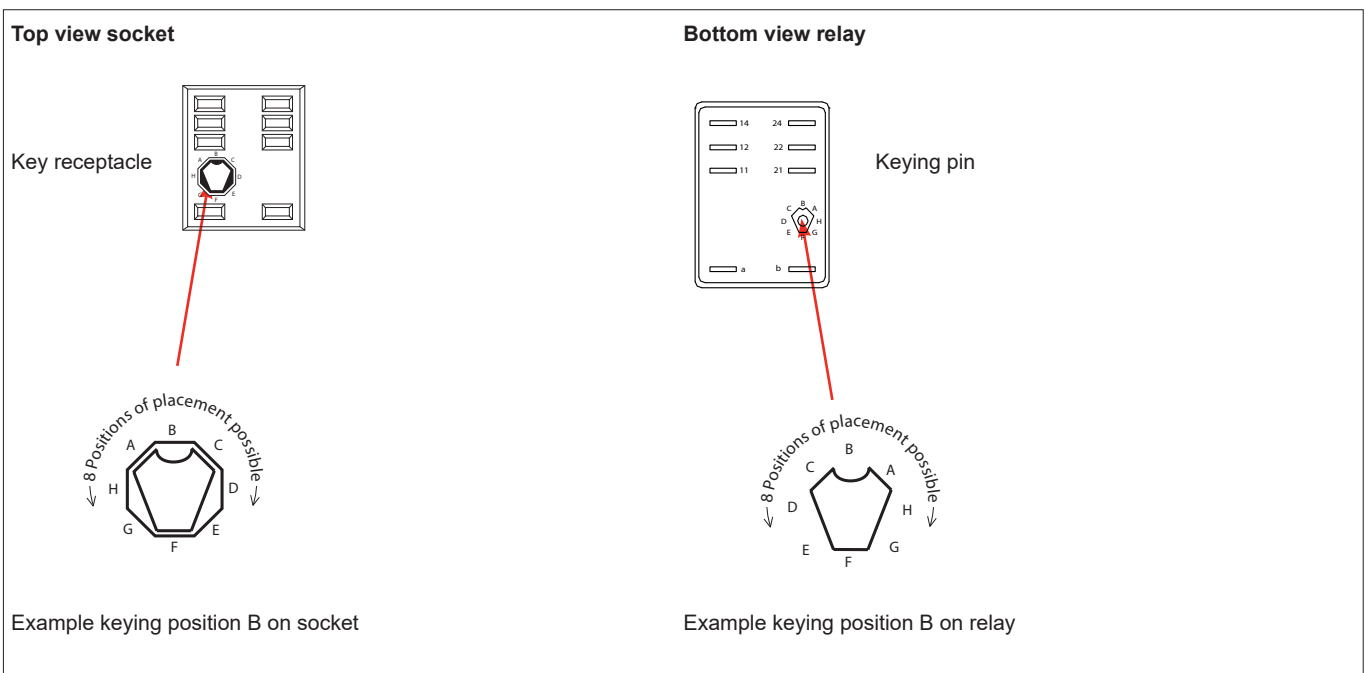
Function:

- 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 function, 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.

Socket V16

Ordering codes




| Article no. | Code | Description |
|-------------|--------|---|
| 338001500 | V16 | Relay socket, screw terminal, 2 retaining clips |
| 338001501 | V16-D | with diode |
| 338001502 | V16-Q1 | double zener (nom. voltage relay: 12 V - 30 V) |
| 338001503 | V16-Q2 | with double zener (nom. voltage relay: 30 V - 45 V) |
| 338001504 | V16-Q3 | with double zener (nom. voltage relay: 45 V - 65 V) |
| 338001505 | V16-Q4 | with double zener (nom. voltage relay: 65 V - 90 V) |
| 338001506 | V16-Q5 | with double zener (nom. voltage relay: 90 V - 150 V) |

Option G

| | | |
|-----------|---------|---|
| 338001507 | V16-G | Relay socket, screw terminal, 1 retaining clip |
| 338001508 | V16-DG | with diode |
| 338001509 | V16-GQ1 | double zener (nom. voltage relay: 12 V - 30 V) |
| 338001510 | V16-GQ2 | with double zener (nom. voltage relay: 30 V - 45 V) |
| 338001511 | V16-GQ3 | with double zener (nom. voltage relay: 45 V - 65 V) |
| 338001512 | V16-GQ4 | with double zener (nom. voltage relay: 65 V - 90 V) |
| 338001513 | V16-GQ5 | with double zener (nom. voltage relay: 90 V - 150 V) |

| | | |
|-----------|------|----------------|
| 378690100 | A104 | Key receptacle |
| 502110000 | A171 | CU extractor |

| | |
|-------|--|
| ...X8 | <p>DIN marking</p>  <p>Example: V16-X8 V16-DX8 etc.</p> |
|-------|--|

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