/// Socket, spring clamp terminal, panel mount, 8 pole
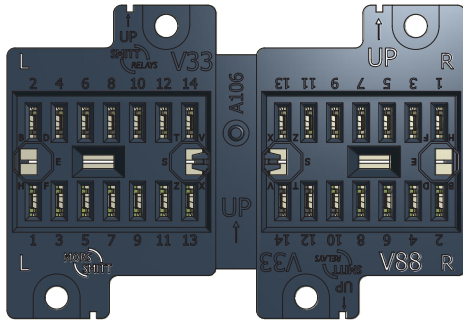
Sockets for extreme reliability, within long endurance applications and harsh environments

V88
Socket

Features

- Panel / flush mount
- Sturdy spring clamp terminals
- Twin connection per relay contact
- Suitable for all railway and industry D8- & KDN-relay series
- 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 V88 is a panel/flush mount relay socket. The V88 socket has a base with 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 2.5mm^2 can be inserted in the spring clamp terminal. This quick & easy wiring method saves up to 75% wiring time. Pinning on the socket complies with the pinning on the relay.

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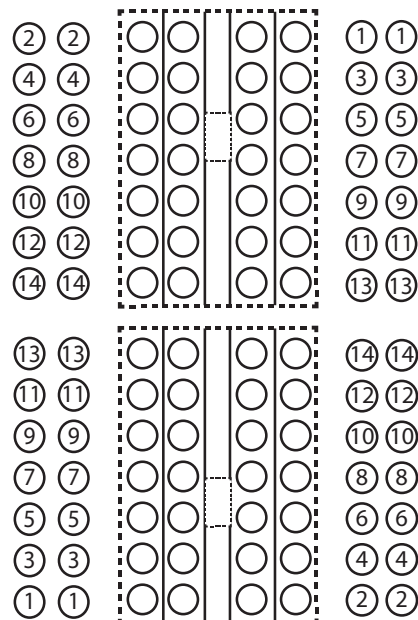
Application

The V33 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 D8- & KDN-relay series.

Connection diagram

Bottom 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	2500 V, 50 Hz, 1 min
Protecting category IEC 60529	IP20
Mounting	Panel mounting
Max. ambient temperature	80 °C
Weight	143 g
Dimensions	60 x 87.8 x 45.7 mm (depth is 38 mm from front of panel
Wire size	0.08 - 2.5 mm^2
Wire stripping length	9-10 mm
Material	Polyamide 66 , 30% glass
Socket contacts	Spring 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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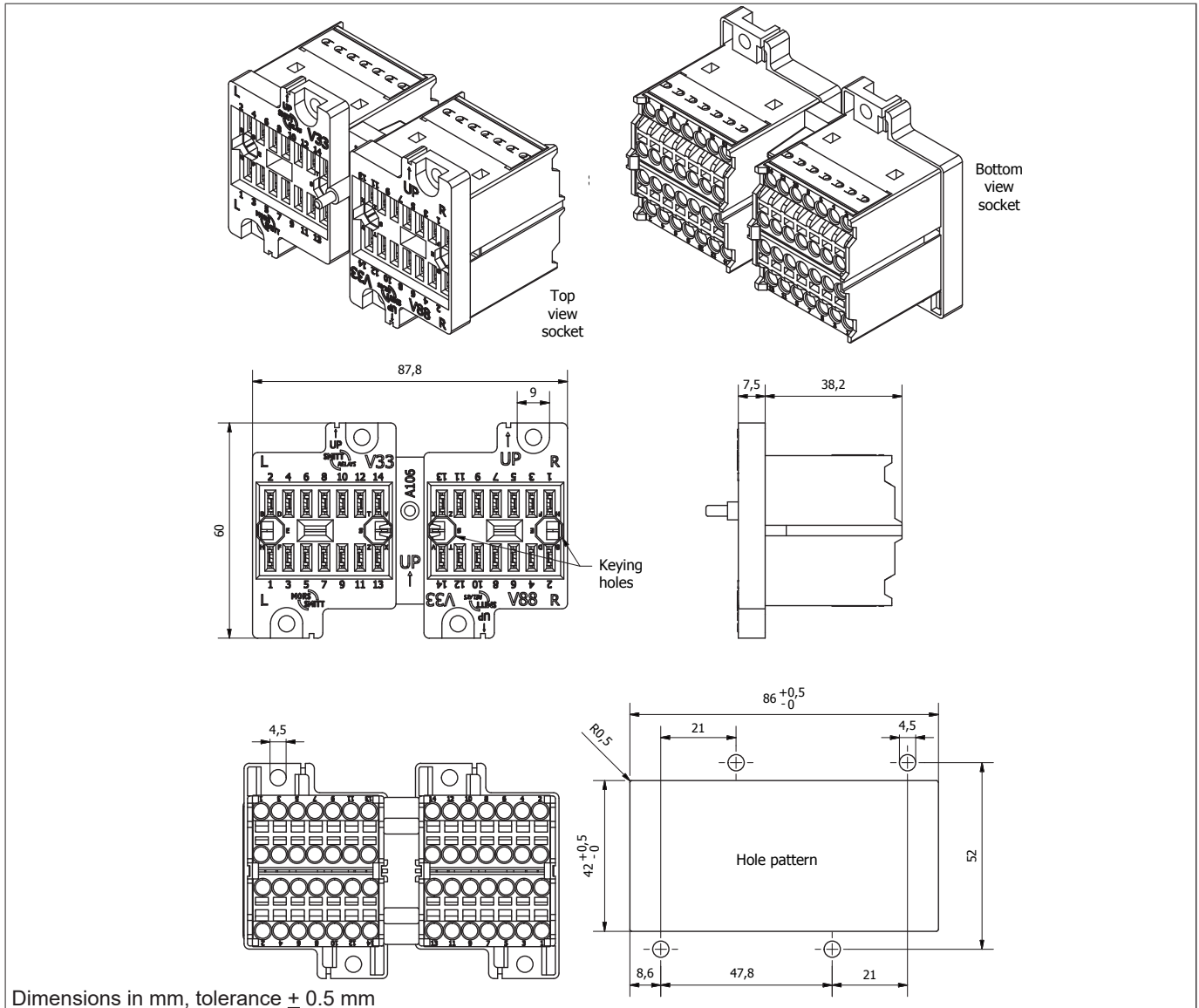**Tel: +1 847 777 6497**
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Dimensions

Top view socket

Bottom view socket

Keying holes

Hole pattern

Dimensions in mm, tolerance ± 0.5 mm
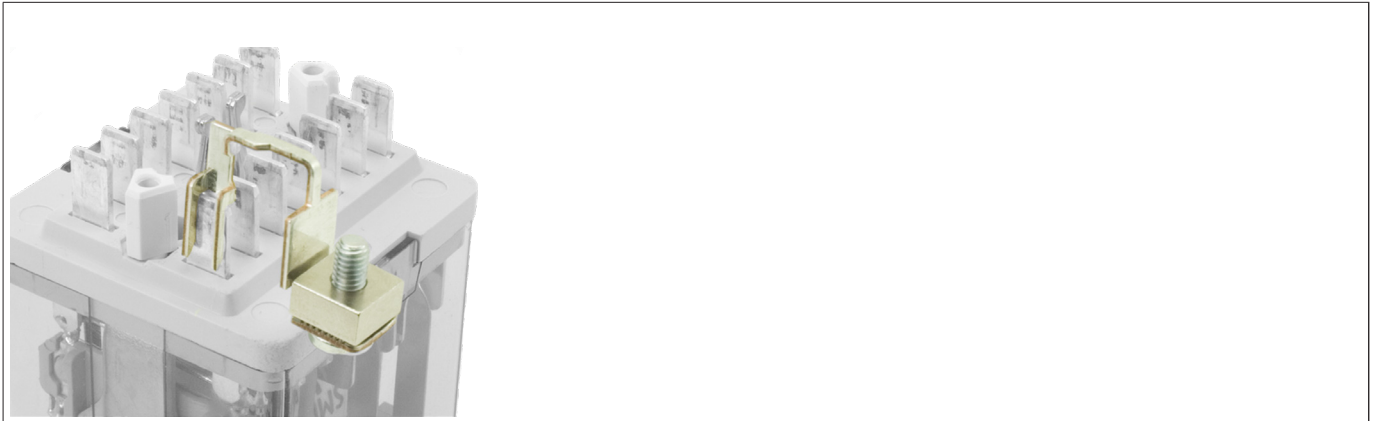
Railway compliancy

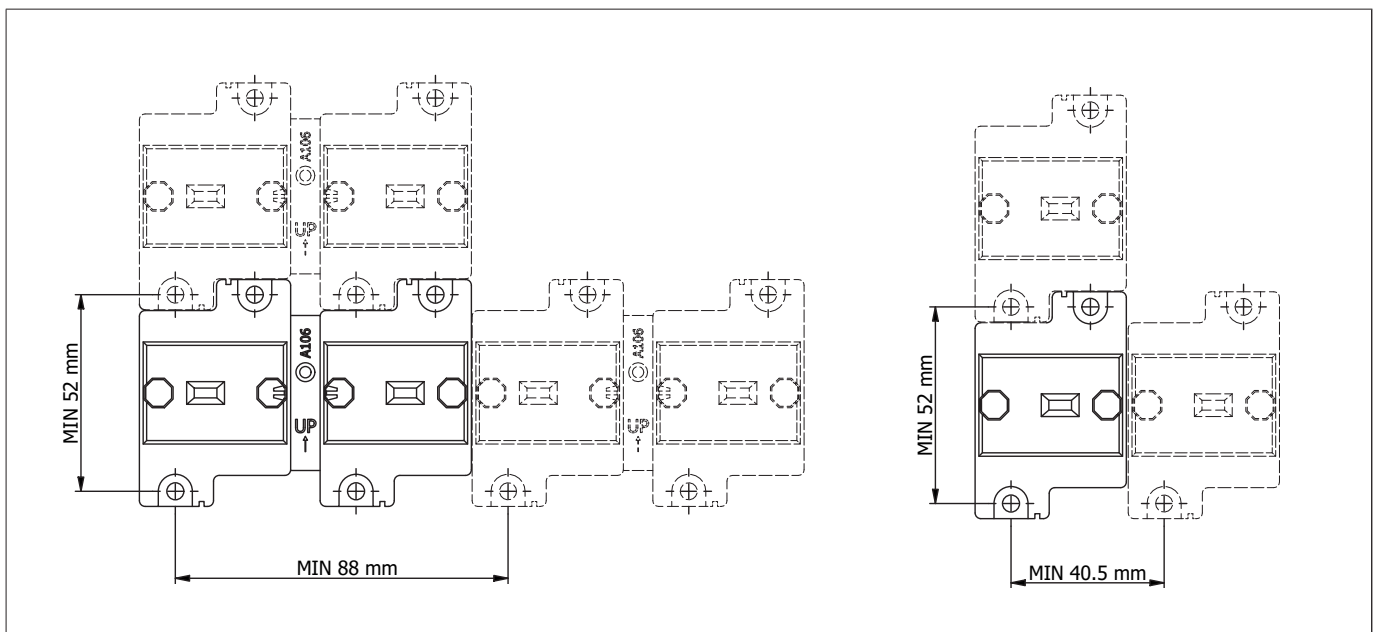|	
EN 50155	Railway applications - Rolling stock - Electronic equipment
IEC 60571	Railway applications - Electronic equipment used on rolling stock
NF F16-101/102	Railway rolling stock - Fire behavior
EN 45545-2	Railway applications - Fire protection on railway vehicles Part 2: Requirements for fire 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

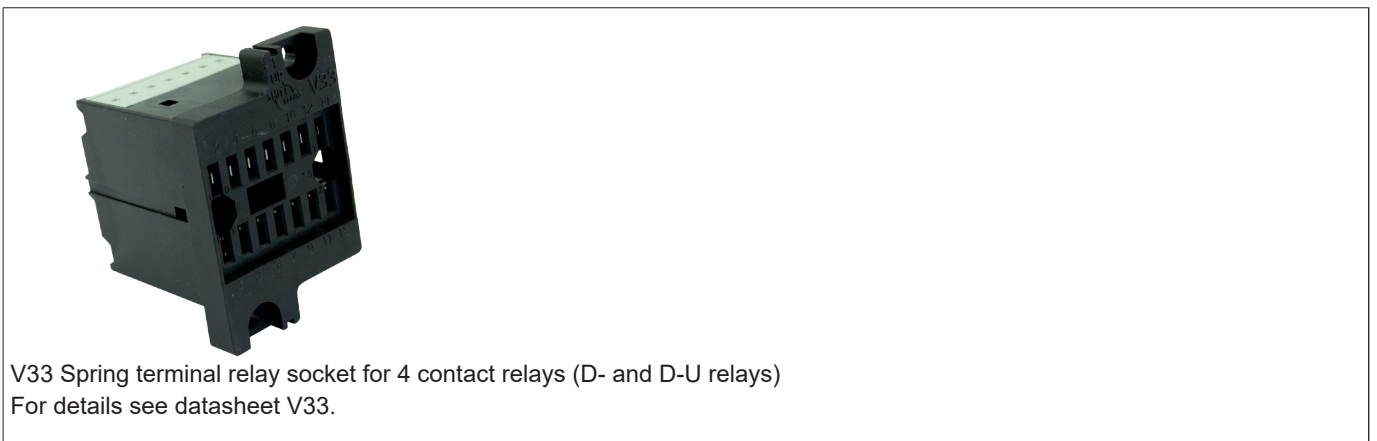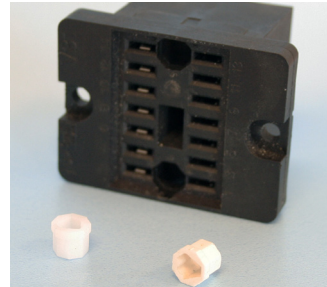## Tri-furcated female receiver for tight grip relay pin

Optimum use of space

MIN 52 mm

MIN 88 mm

MIN 52 mm

MIN 40.5 mm

V33 socket

V33 Spring terminal relay socket for 4 contact relays (D- and D-U relays)
For details see datasheet V33.

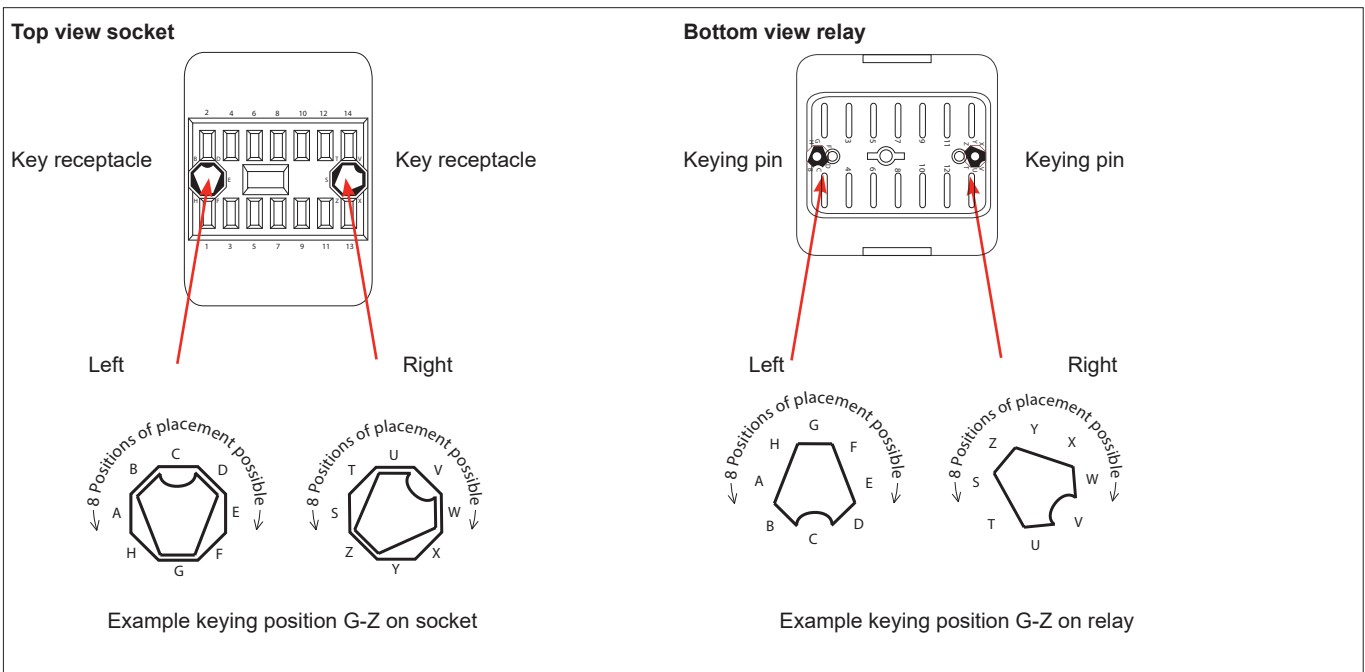## Mechanical keying relay and socket (optional)

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 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: Sockets and relay shown are examples.

Top view socket

Key receptacle   Key receptacle

Left   Right

8 Positions of placement possible

8 Positions of placement possible

Example keying position G-Z on socket

Bottom view relay

Keying pin   Keying pin

Left   Right

8 Positions of placement possible

8 Positions of placement possible

Example keying position G-Z 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 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).

Warning!
  - To remove relays from the socket, employ up and down lever movements. Sideway movement may cause damage to the coil wires.
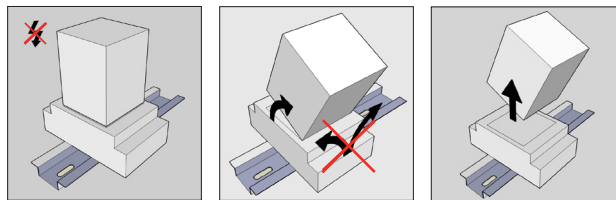
When plugging the relay into the socket, the female bifurcated or trifurcated receivers will automatically cut through the corrosion on the pins and guarantee a reliable connection.

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.

Ordering codes

V33	V88	A104		

Article no.	Code	Description
338000570	V33	Spring terminal relay socket
338001700	V88	Spring terminal relay socket for 8 contact relays
378690100	A104	Key receptacle

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