

# **Push-in relay socket family**



**User Manual** 

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This user manual contains important information for the commissioning, operation, maintenance and disposal of the device. You will also receive information and important tips for your safety and help with any issues. The user manual must be made physically or electronically available with the equipment and must be included in the supply when the equipment is transferred. It is also available on the ComatReleco web portal.

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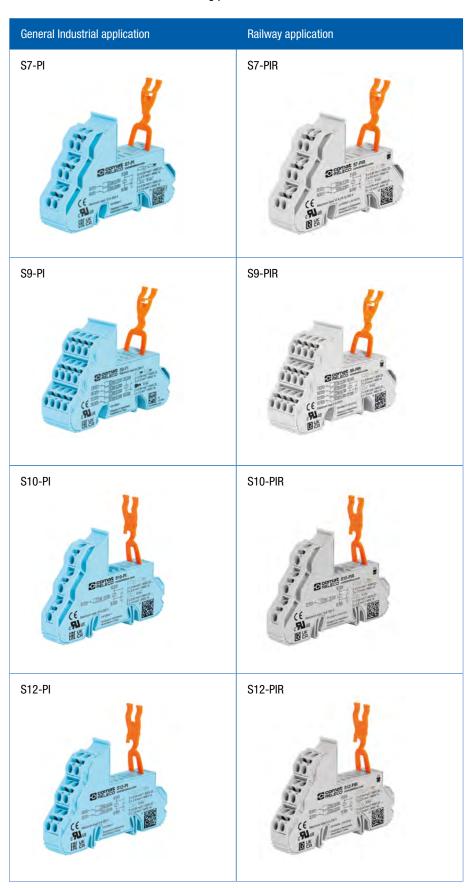
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### 1 Introduction

### 1.1 Validity

This user manual is valid for the following push-in socket series



### 1.2 Product conformity



#### **EU Declaration of conformity**

This device complies with the provisions of the following EU directives:

- Low Voltage Directive 2014/35/EU
- RoHS Directive 2011/65/EU

and complies with the requirements of the following harmonized standards:

- EN 60947-1
- EN 63000

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#### **UKCA Declaration of conformity**

This device complies with the provisions of the following UK Regulations:

- Electrical Equipment (Safety) Regulations 2016
- Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

and complies with the requirements of the following harmonized standards:

- BS EN IEC 60947-1
- BS EN IEC 63000

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Meets the requirements of Technical Regulations of the Customs Union on safety of low voltage equipment TR CU 004/2011



The product has been investigated by UL in accordance with the following standards:

- UL 508 Standard For Industrial Control Equipment
- CSA C22.2 NO. 14-18 Industrial Control Equipment

#### 1.3 Contact details

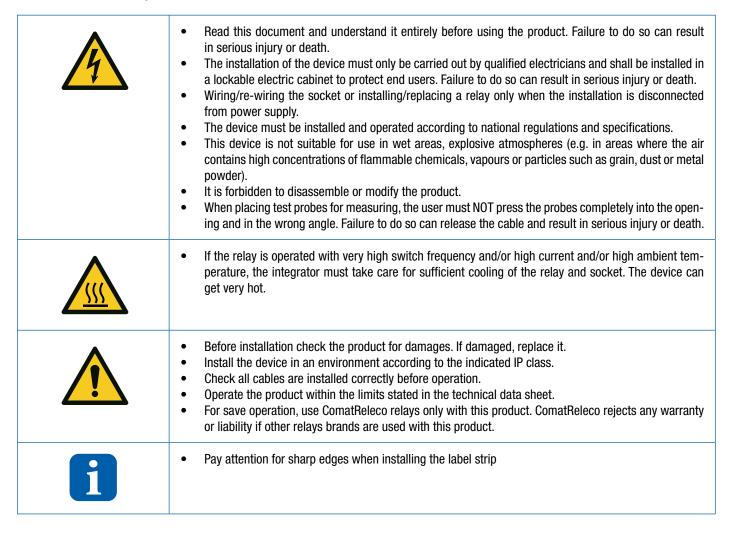
Manufacturer's address						
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# 2 Safety instructions

### 2.1 Meaning of symbols

DANGER	Indicates a hazard with high risk potential. Failure to observe the safety measures could result in serious injury or death.
WARNING	Indicates a hazard with medium risk potential. Failure to observe the safety measures could result in serious injury or damage to property.
	Indicates thermal stress.
INFORMATION	Here you will find further information and helpful hints.
DISPOSAL	Observe the special disposal regulations for electronic and electrical devices.

### 2.2 General Safety Instructions



#### 2.3 User groups / personal qualification

#### **Device installation**

All installation, assembly and wiring work must only be carried out by qualified electricians who are familiar with the applicable standards, regulations and safety provisions for installation and automation technology.

#### 2.4 Intended use

The push-in family sockets provide the electrical and mechanical interface

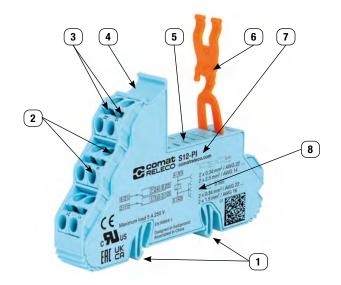
- between a relay and external load and control circuits
- to mount a relay socket assembly to DIN rail fixations. Ideally the socket shall be mounted in a vertical position

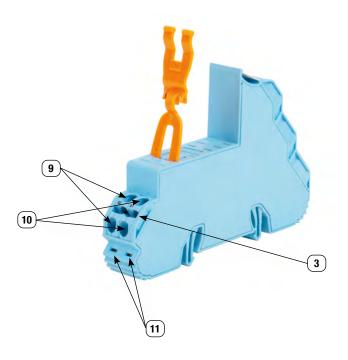
The socket relay assembly is IP20 rated and hence must be mounted and operated in a sheltered environment (e.g switch board cabinet) that provides adequate ingress protection according to the specific environmental conditions of the field application.

### 3 Product description

#### 3.1 Overview

- 1. DIN rail hooks
- Terminals for cables, potential bridge bars Sxx-BBPl2 and Sxx-BBPl4 and voltage test probes
- 3. Tool openings and for voltage test probe
- 4. Groove for marking strip
- 5. Plug for relay
- 6. Clip for relay
- 7. Product type designation
- 8. Technial data for cable types/size, wiring diagram, approvals
- 9. Terminals for A2
- 10. Terminals for A1
- 11. Terminals for bridges A2 Sxx-BBPI





#### 3.2 Transport and storage

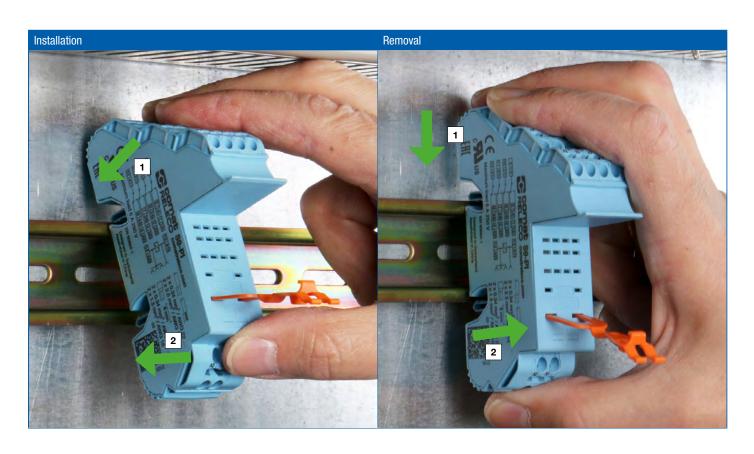
The device is delivered in a cardboard packaging and is therefore protected as well as possible during transport. If you do not use the device, store it at room temperature in a clean and dry place.

#### 3.3 Included in the delivery

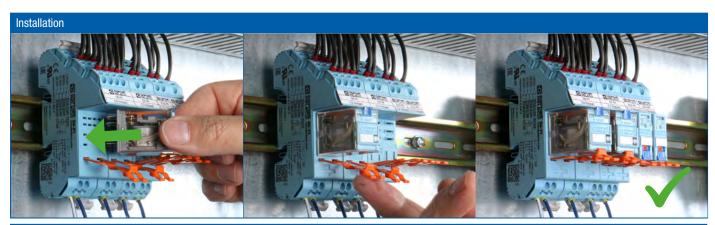
Delivery comprises push-in socket and clip for relay. If you discover a defect or missing parts on receipt, contact your seller immediately. Please refer to the ComatReleco web portal for the delivery conditions and information regarding the return of goods.

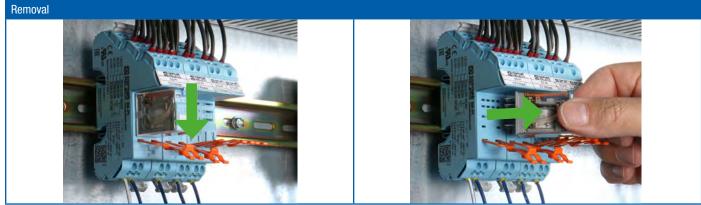
# 4 Installing and wiring the device

### 4.1 Installation and removal of socket on DIN rail (EN 60715)

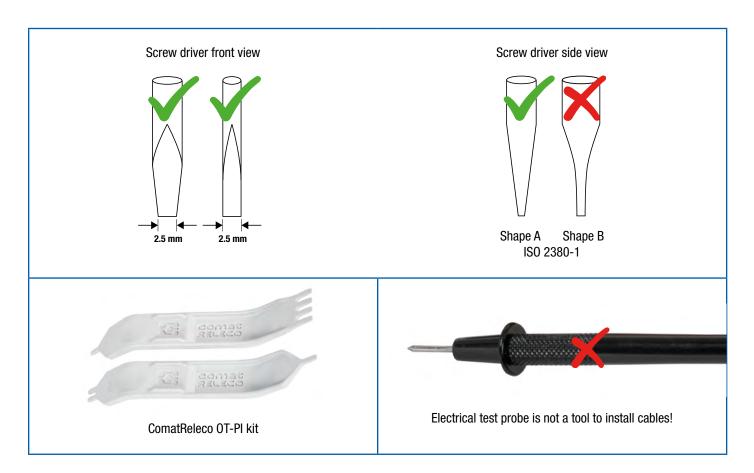


### 4.2 Installation and removal of a relay



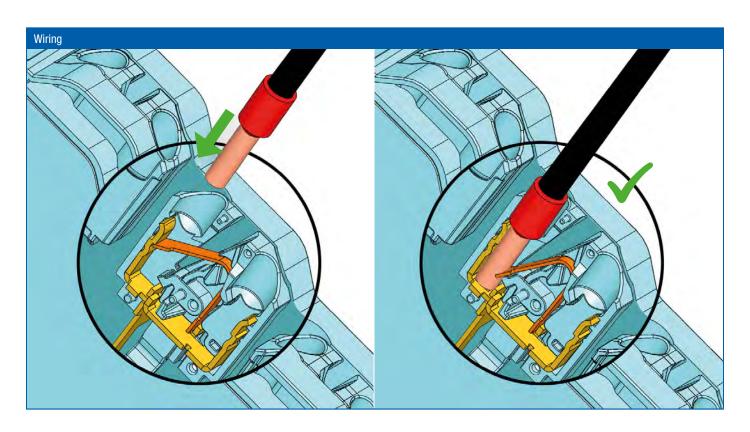


### 4.3 Tools for cable installation

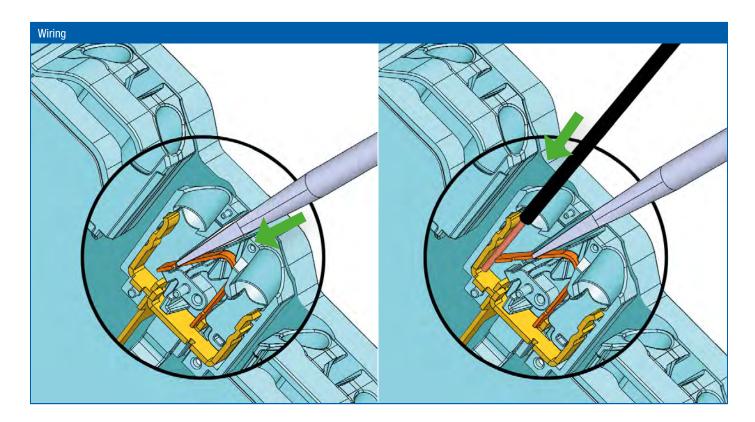


### 4.4 Wiring - how it works

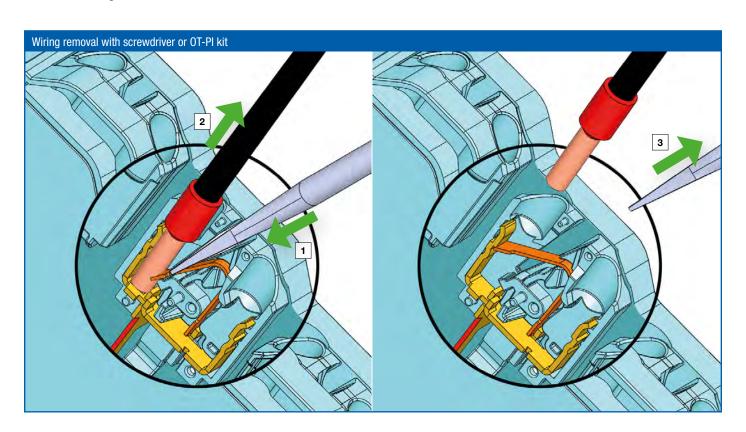
### 4.4.1 Wiring without tool



### 4.4.2 Wiring with tool



### 4.4.3 Wiring removal

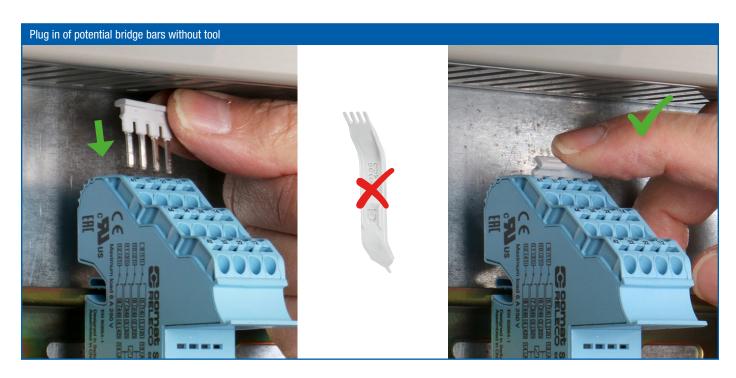


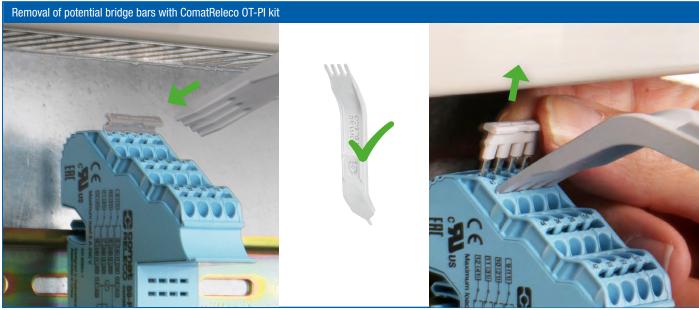


### 4.5 Tool placement



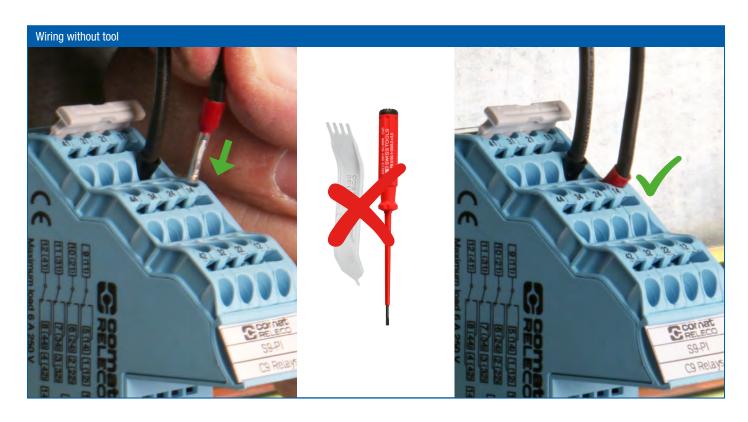
#### 4.6 Installation and removal of bridge bars





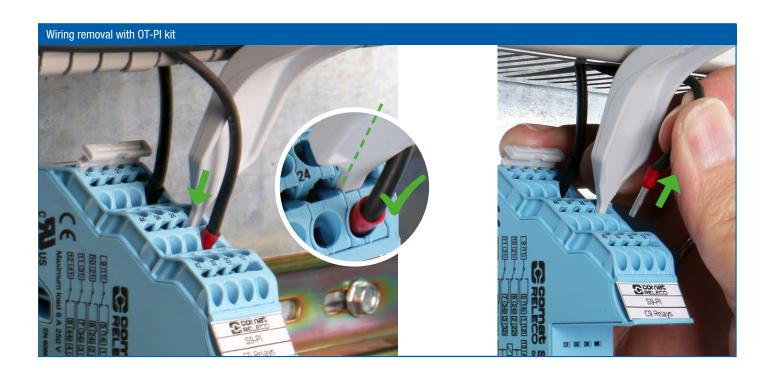


#### 4.7 Wiring and wiring removal











#### 4.8 **Installation of A2 bridge bars**



### 4.9 Application of test probes

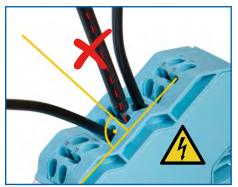


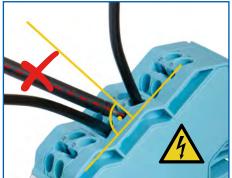


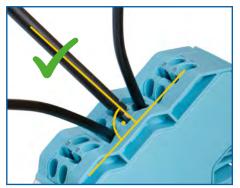
During the entire measuring process, hold the probe by hand perpendicularly in the push-in box and hold it gently against the electrical contact.



When placing test probes for measuring, the user must NOT press the probes completely into the opening and in the wrong angle. Failure to do so can release the cable (which might be under tension) and result in serious injury or death.







### 5 Maintenance

No maintenance is required nor forseen for the product throughout the life time.

### 5.1 Device exchange

In case of defective or damaged products, replace it with a new one. Do not attempt to dismantle or repair it.

#### **DANGER**



### Risk of death due to electric shock!

Only mount or dismantle the device when it is disconnected from the power supply.

#### WARNING



The work described in this chapter must only be carried out by qualified electricians!



### 6 Disposal



Disposal information for users of electrical and electronic equipment waste according to the WEEE directive (Waste of Electrical and Electronic Equipment):

#### For professional users in the European Union

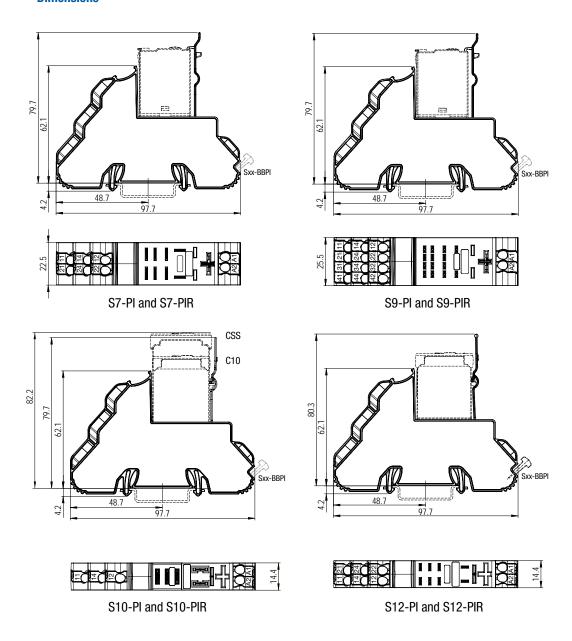
If you wish to dispose of electrical and electronic equipment, please contact your dealer or supplier for further information. Please also observe the country-specific regulations.

#### For disposal in countries outside the European Union

The above symbol is only valid in the European Union (EU). If you wish to dispose of this product, contact your local authorities or your dealer and ask for the correct method of disposal.

### 7 Technical data

### 7.1 Dimensions



### Designed for use with DIN rail EN 60715.

### 7.2 Technical documentation

The basic data are printed on the product.

Further technical data are available on www.comatreleco.com or with the following link.



### 8 Order details and accessories



The devices may only be operated with accessories from the ComatReleco range.

You can find information on this in the table below or on the ComatReleco push-in socket website → Link.

Operation with other accessories may result in damage and/or non-conformities.

Order number	Description
S7-PI	socket for C7 relay family
S7-PIR	socket for C7 relay family for railway application
S9-PI	socket for C9 relay family
S9-PIR	socket for C9 relay family for railway application
S10-PI	socket for C10 relay family
S10-PIR	socket for C10 relay family for railway application
S12-PI	socket for C12 relay family
S12-PIR	socket for C12 relay family for railway application
BS11-PI	50m marking strip
S7-CPI (BAG 10 PCS)	Retaining clip, plastic for S7-PI resp. S7-PIR and S9-PI resp. S9-PIR
S10-CPI (BAG 10 PCS)	Retaining clip, plastic for S10-PI resp. S10-PIR and S12-PI resp. S12-PIR
Sxx-BBPI (BAG 20 PCS)	Bridge bar A2
Sxx-BBPI2 (BAG 20 PCS)	2-pole potential bridge bar
Sxx-BBPI4 (BAG 20 PCS)	4-pole potential bridge bar



OT-PI kit	Multi tool for push-in sockets
C7-xx	Relay for S7-PI
R7-xx	Relay for S7-PIR
С9-хх	Relay for S9-PI
R9-xx	Relay for S9-PIR
C10-xx CSS-xx	Relay for S10-PI
R10-xx R10-Z1-xx	Relay for S10-PIR
C12-xx	Relay for S12-PI
R12-xx	Relay for S12-PIR

