PSR-CT-C-ACT - Safety switch actuator

2702973

https://www.phoenixcontact.com/au/products/2702973

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Proximity safety circuit up to Cat. 4, PL e (EN ISO 13849), SIL 3 (IEC 61508), coded actuator, compatible with all sensor coding types, supplied inductively via the sensor, IP69K

Product description

The PSR-CT safety circuit consists of a combination of a PSR-CT-...-SEN-1-8 sensor with varying coding types and a coded PSR-CT-C-ACT actuator. It provides maximum tamper protection and the highest level of safety in accordance with EN ISO 14119. The PSR-CT safety circuit is available with the following types of coding: Fixcode: For the sensor to detect the actuator, the actuator must first be associated with the sensor via a learning process. The learning process can only be completed once. The sensor and actuator are then permanently assigned to each other by their coding. Safety circuits with fixcode evaluation achieve a high coding level. Unicode: For the sensor to detect the actuator, the actuator must first be assigned to the sensor via a learning process. The learning process for a new actuator can be repeated any number of times. The sensor only detects the last learned actuator. Safety circuits with unicode evaluation achieve a high coding level. Multicode: The sensor detects every actuator of the approved type. No specific actuator code can be assigned. Safety circuits with multicode evaluation achieve a low coding level.

Your advantages

- Integrated reset function on the switch
- 4 actuation settings, 3 travel directions
- Tamper protection via RFID transponder technology
- Rapid diagnostics, thanks to comprehensive status information
- Consistent M12 connection technology for convenient installation
- Safe series connection in accordance with EN ISO 14119
- Flexible use, thanks to compact design
- Safe, cost-effective complete solution

Commercial data

Item number	2702973
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA611
Product key	DNA611
Catalog page	Page 213 (C-6-2019)
GTIN	4055626447001
Weight per piece (including packing)	40.7 g
Weight per piece (excluding packing)	31.5 g

Customs tariff number	85365019
Country of origin	DE

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Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Safety switches
Product family	PSR-CT
Technology	Transponder
Application	Safety door monitoring
	Position monitoring

Electrical properties

Power supply	inductively, via the sensor

Switching intervals: Actuation position A, B when traveling in X direction

Actuation setting	Actuation position A, B when traveling in X direction
Power-on interval	typ. 13 mm
Fused switching interval S_{ao}	10 mm (Position A)
	9 mm (Position B)
Fused power off interval S_{ar}	max. 20 mm
Switching hysteresis	min. 1 mm
	typ. 2 mm
Repeat accuracy	≤ 10 %

Switching intervals: Actuation position C, D when traveling in X direction

Actuation setting	Actuation position C, D when traveling in X direction
Power-on interval	typ. 7 mm
Fused switching interval S_{ao}	3 mm (Position C)
	2 mm (Position D)
Fused power off interval S_{ar}	max. 17 mm
Switching hysteresis	min. 1 mm
	typ. 2 mm
Repeat accuracy	≤ 10 %

Connection data

Connection technology

pluggable	no

Conductor connection

Connection method	without

Dimensions

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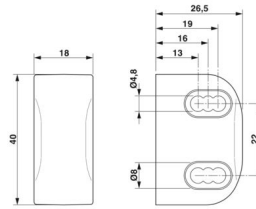
Dimensional drawing	
Width	26.5 mm
Height	40 mm
Depth	18 mm
Minimum distance	140 mm (between two safety circuits)
	7 mm (between sensor and actuator when traveling in the Y-direction)

Material specifications

Color (Housing)	yellow (RAL 1018)
Housing material	PBT

Characteristics

Safety data: EN ISO 13849

Category	4
Performance level (PL)	e

Safety data: IEC 61508 - High demand

Safety Integrity Level (SIL)	3

Environmental and real-life conditions
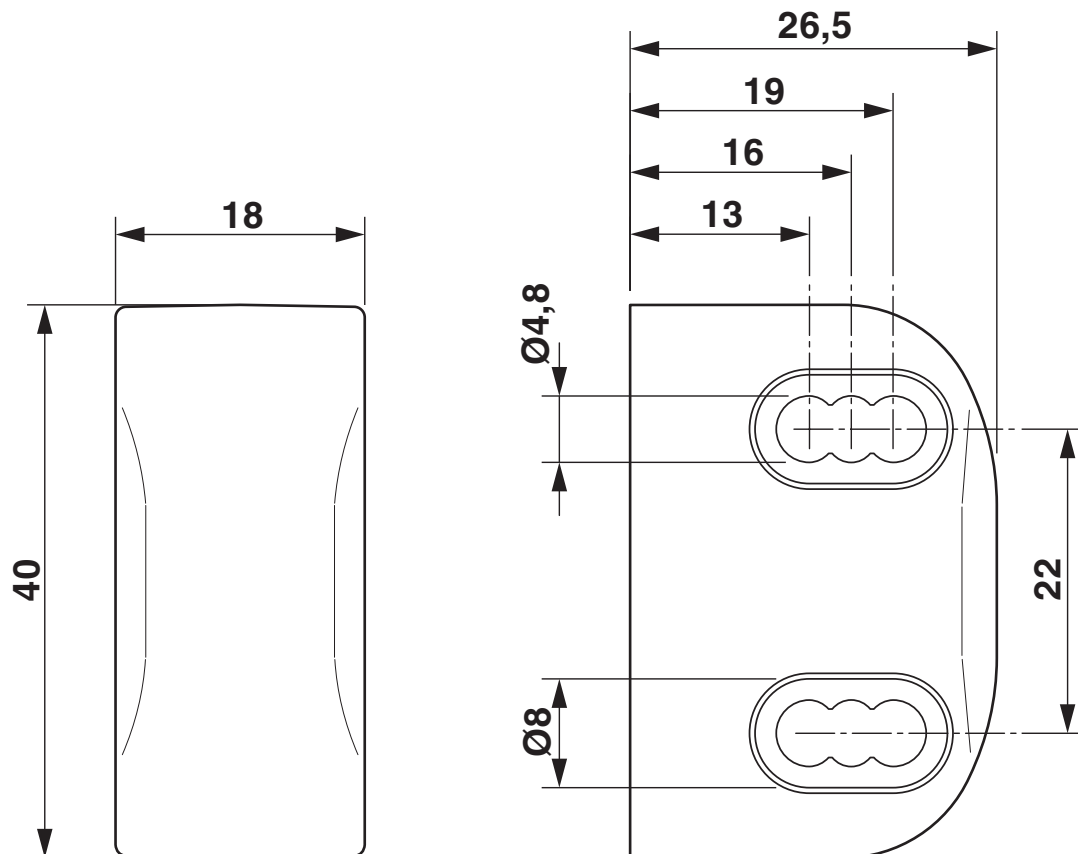
Ambient conditions

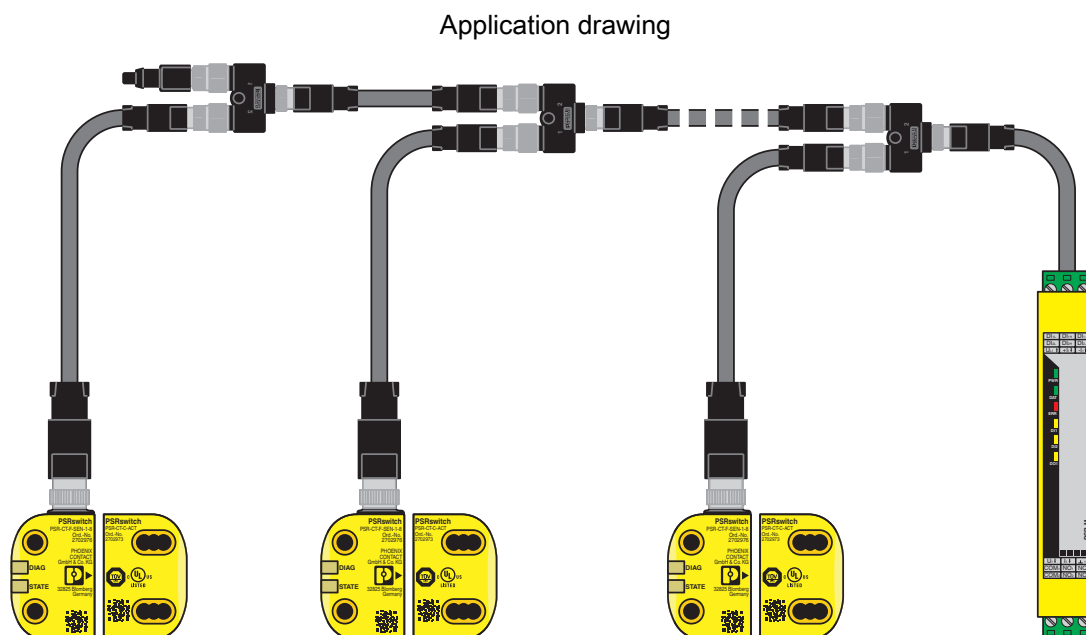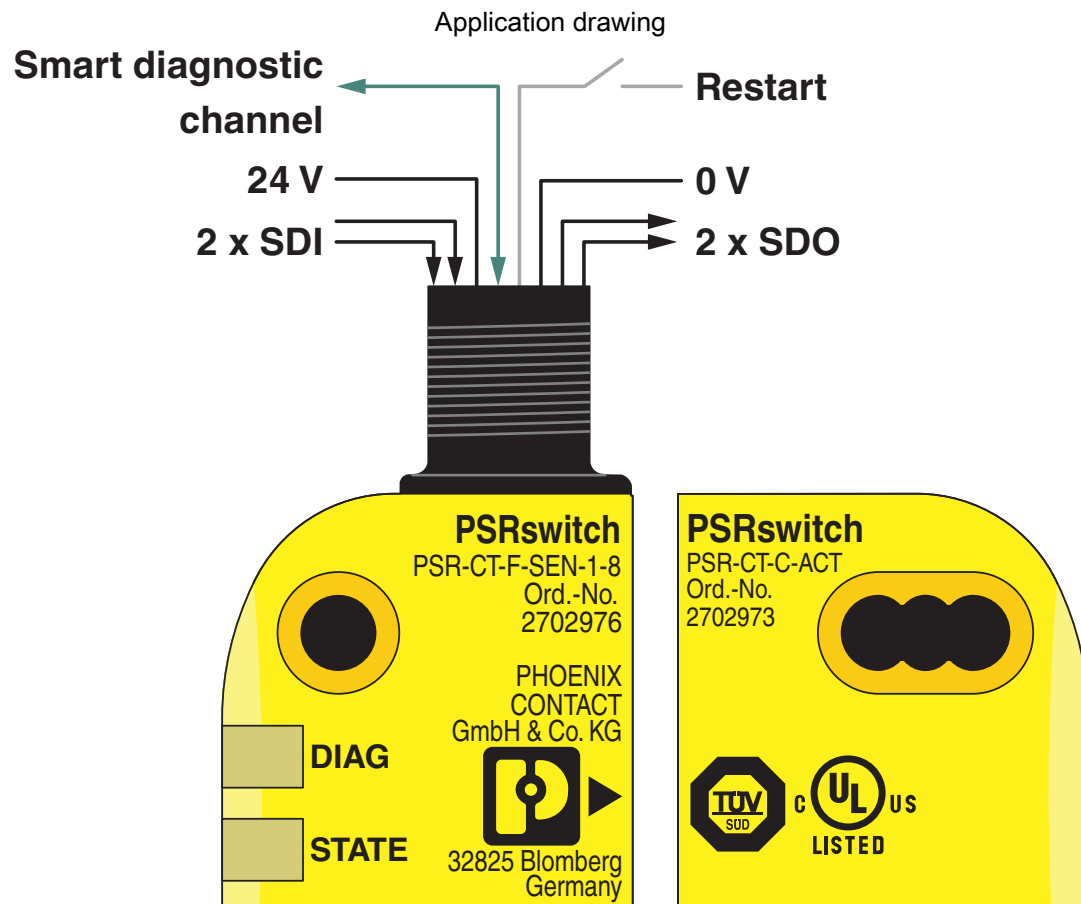|	
Degree of protection	IP65/IP67/IP69/IP69K
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Mounting

Mounting type	not flush
Assembly note	Note EN ISO 14119
	max. tightening torque to secure: 0.8 Nm
Mounting position	active surface across from sensor

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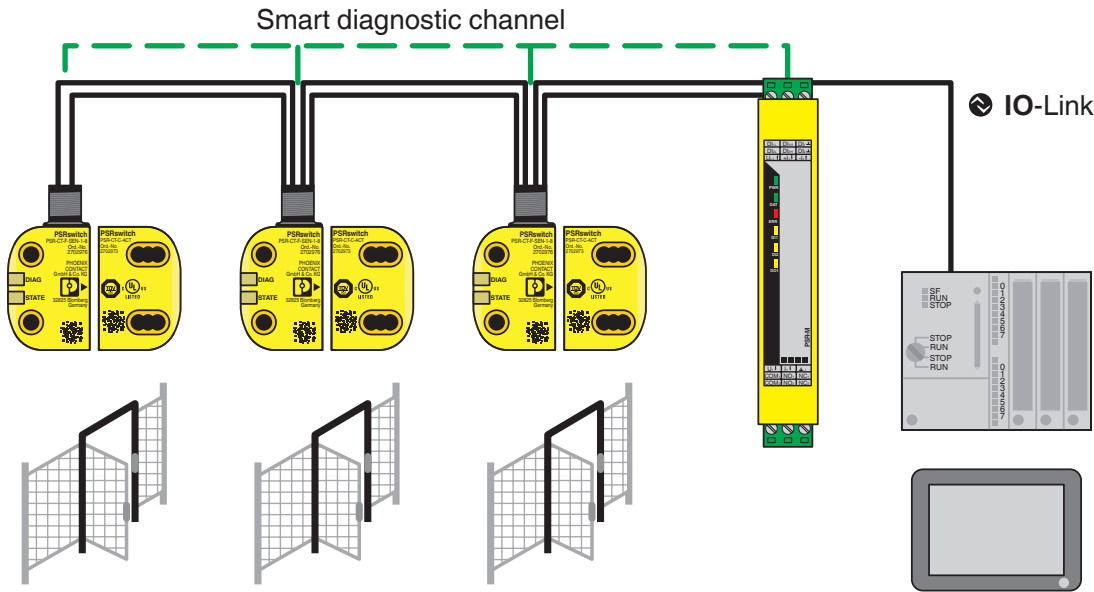https://www.phoenixcontact.com/au/products/2702973

Drawings

Dimensional drawing

Application drawing

Smart diagnostic channel

Restart

24 V

0 V

2 x SDI

2 x SDO

PSRswitch
PSR-CT-F-SEN-1-8
Ord.-No.
2702976

PHOENIX
CONTACT
GmbH & Co. KG

32825 Blomberg
Germany

DIAG

STATE

PSRswitch
PSR-CT-C-ACT
Ord.-No.
2702973

Application drawing

Application drawing

Application drawing

Smart diagnostic channel

IO-Link
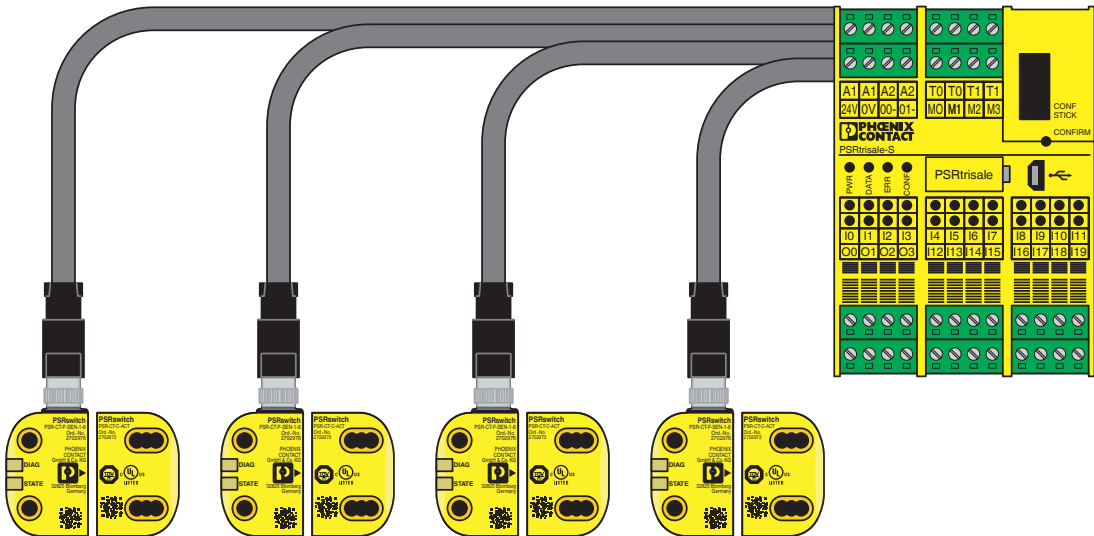
Connection diagram

Signal	Pin
START	8
UB	2
0V	7
FI1A	6
FI1B	1
F01A	3
F01B	4
DGN	5
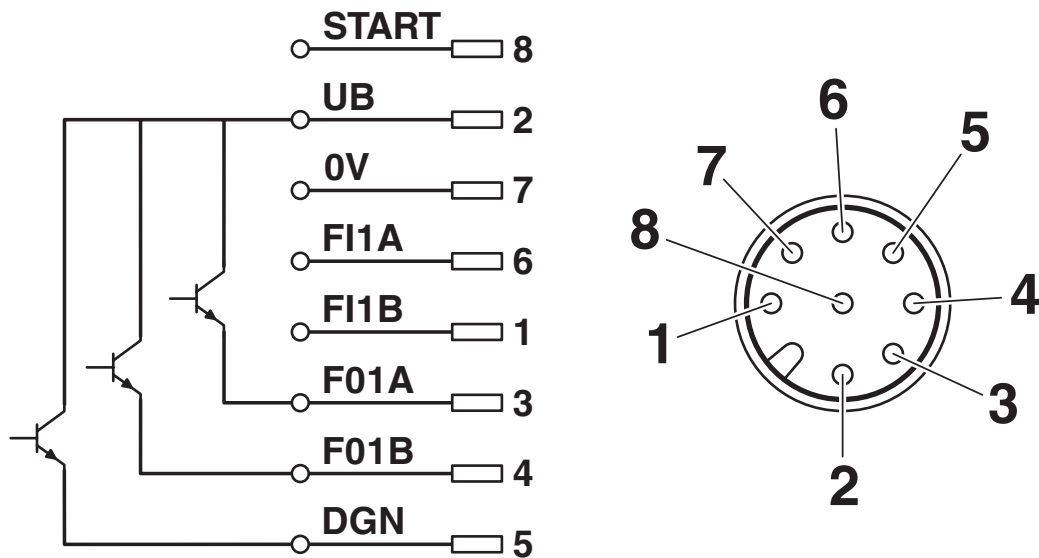
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2702973

UL Listed
Approval ID: E196162

cUL Listed
Approval ID: E196162

Functional Safety
Approval ID: Z10 029429 0033

Classifications

ECLASS

ECLASS-13.0	27274601

ETIM

ETIM 9.0	EC003015

UNSPSC

UNSPSC 21.0	32151800

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%