PSR-CT-C-ACT - Safety switch actuator

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	DN04
Product key	DNA611
GTIN	4055626447001
Weight per piece (including packing)	41 g
Weight per piece (excluding packing)	31.5 g
Customs tariff number	85365019

Country of origin	DE

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

Switching intervals (Actuation setting A, B)

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 setting C, D)

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 %

Electrical properties

Power supply	inductively, via the sensor

Connection data

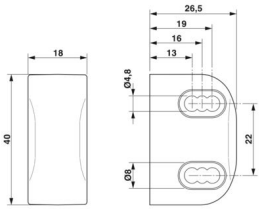
Connection technology

pluggable	no

Conductor connection

Connection method	without

Dimensions

Dimensional drawing	
Width	26.5 mm
Height	40 mm
Depth	18 mm

Material specifications

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

Characteristics

Safety data: EN ISO 13849

Performance level (PL)	e

Safety data: IEC 61508 - High demand

Safety Integrity Level (SIL)	3

Environmental and real-life conditions

Ambient conditions

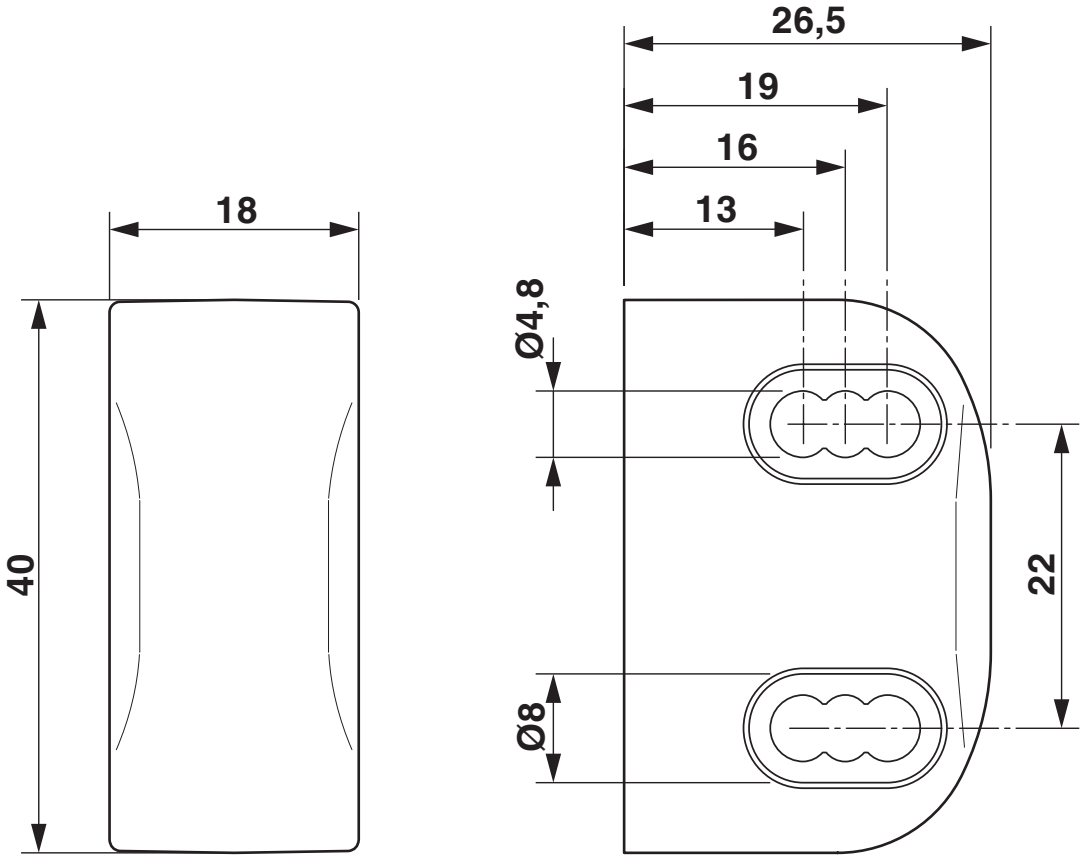
Degree of protection	IP65/IP67/IP69/IP69K
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Mounting

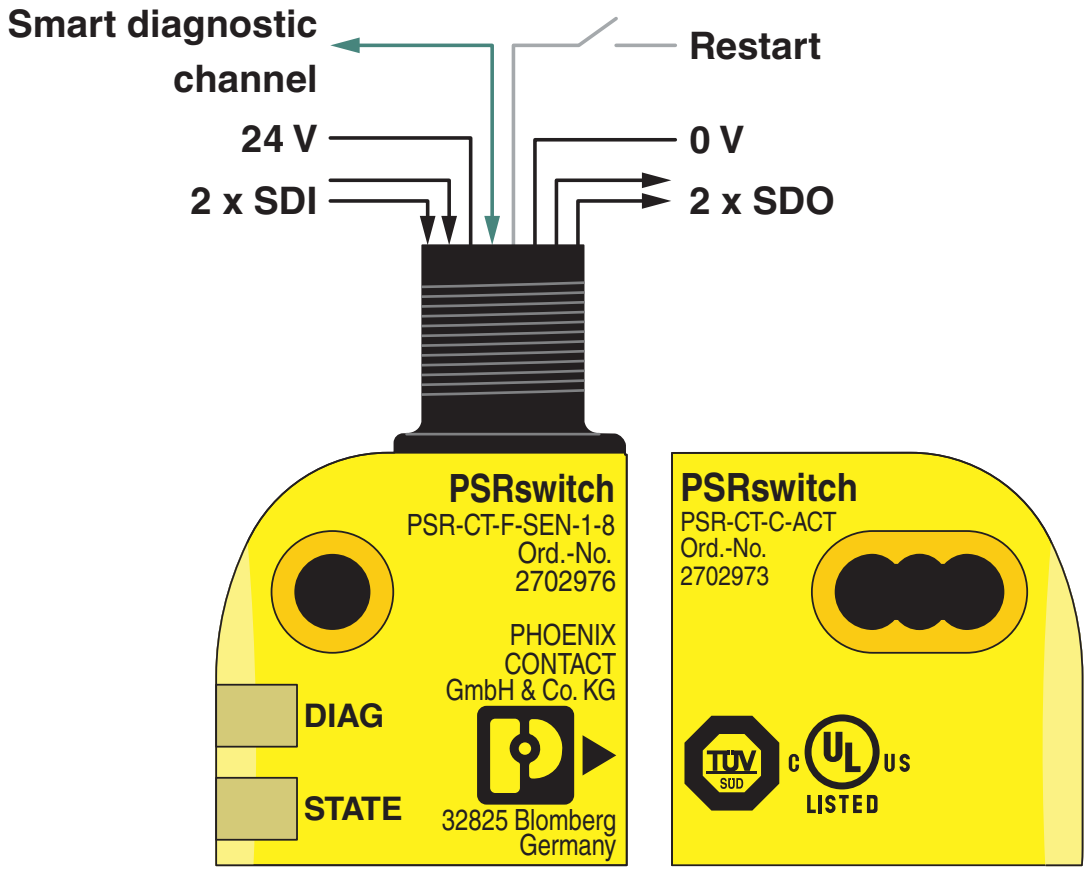
Mounting type	Mounting panel
Assembly note	Note EN ISO 14119
	max. tightening torque to secure: 0.8 Nm
Mounting position	active surface across from sensor
Minimum distance	140 mm (between two safety circuits)
	7 mm (between sensor and actuator when traveling in the Y-direction)

Drawings

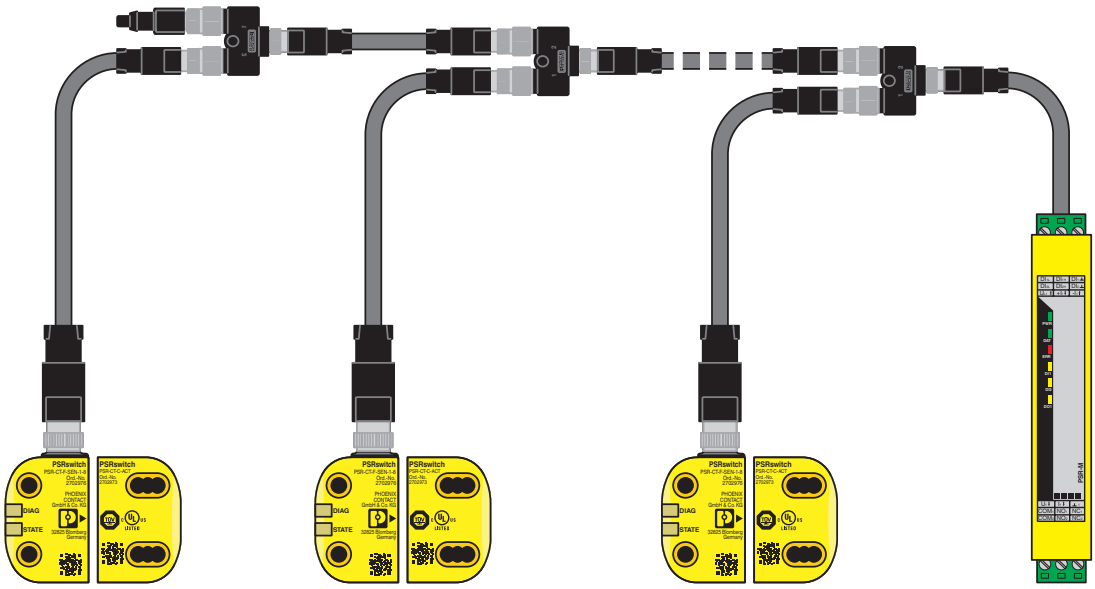
Dimensional drawing



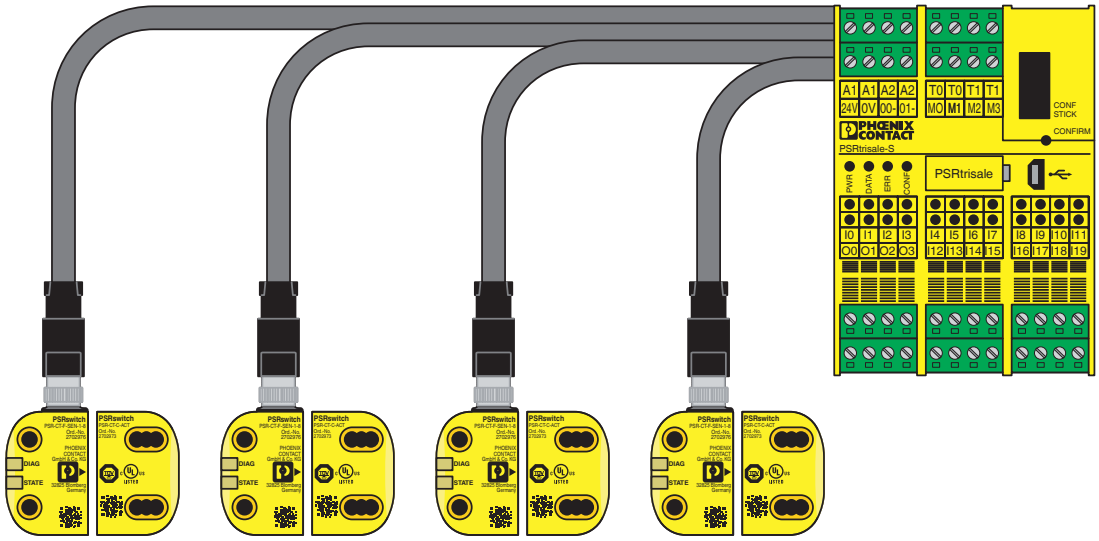
Application drawing



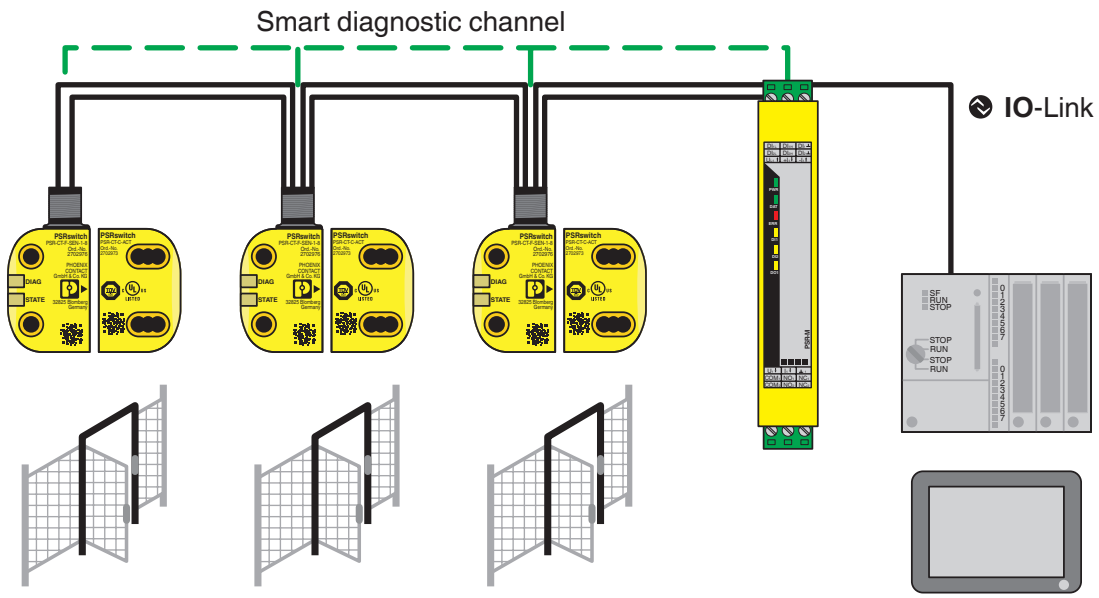
Application drawing



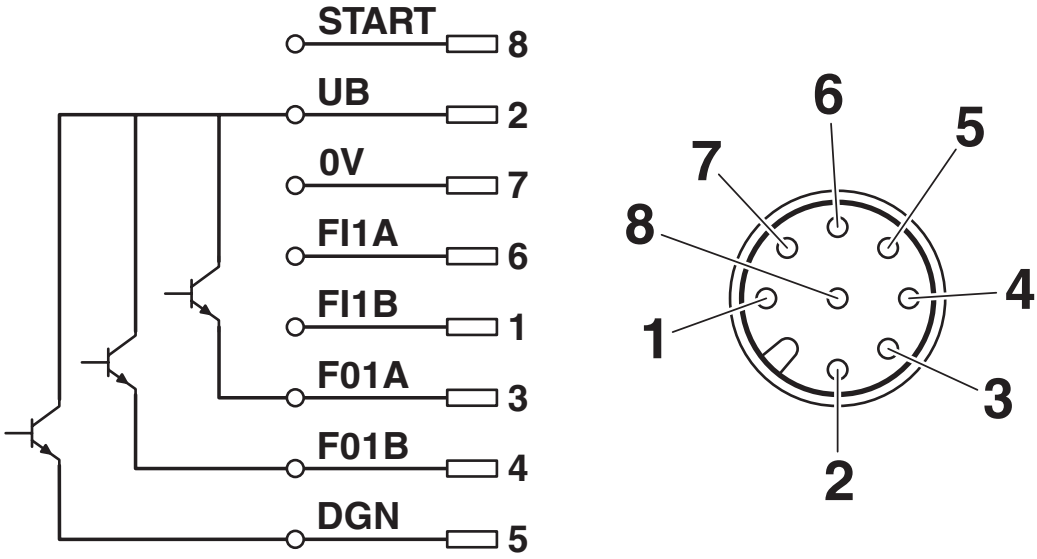
Application drawing



Application drawing



Connection diagram



Approvals

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

UL Listed
Approval ID: E196162

cUL Listed
Approval ID: E196162

Functional Safety
Approval ID: Z10 029429 0033

Classifications

ECLASS

ECLASS-15.0	27274601
ECLASS-13.0	27274601

ETIM

ETIM 10.0	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%

EF3.1 Climate Change

CO2e kg	1.883 kg CO2e

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