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
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

Product properties

Product type	Safety switches
Application	Safety door monitoring
	Position monitoring
Technology	Transponder

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

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 instructions	Note EN ISO 14119
	Maximum tightening torque to secure: 0.8 Nm
Mounting position	active surface across from sensor

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Classifications

ECLASS

ECLASS-11.0	27272403
ECLASS-12.0	27274601
ECLASS-13.0	27274601

ETIM

ETIM 9.0	EC003015

UNSPSC

UNSPSC 21.0	32151800

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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