

Safety switch sensor - PSR-CT-F-SEN-1-8 - 2702976

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Proximity safety circuit up to Cat. 4, PL e (EN ISO 13849), SIL 3 (IEC 61508), fixcode sensor with RFID coding, model 4 (EN ISO 14119), automatic or manual start, integrated diagnostics, 24 V DC supply, IP69K, M12 connector

The figure shows a product version of the article

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



Key Commercial Data

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc |
| GTIN |  4 055626 447032 |
| GTIN | 4055626447032 |
| Weight per Piece (excluding packing) | 41.300 g |

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| | |
|----------------------|----------|
| Custom tariff number | 85365019 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 26.5 mm |
| Height | 40 mm |
| Depth | 18 mm |

Ambient conditions

| | |
|-----------------------------------------|------------------|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

Power supply

| | |
|---------------------|--------------------------------------------------------------|
| Supply voltage | 24 V DC \pm 15 % (PELV, controlled, residual ripple < 5%) |
| Current consumption | max. 40 mA |
| Protection | min. 0.25 A (to be performed externally) |
| | max. 8 A (to be performed externally) |

Alarm outputs

| | |
|---------------------|------------------------------|
| Designation | DGN |
| Output description | p-wired |
| Number of outputs | 1 |
| Short-circuit-proof | yes |
| Output voltage | min. ($U_B - 1.5$ V (HIGH)) |
| | max. (U_B (HIGH)) |
| | min. 0 V DC (LOW) |
| | max. 1 V DC (LOW) |
| Current I_{DGN} | min. 1 mA |

Safety outputs

| | |
|-------------------------------------------------------|----------------------------------------------------------------------------|
| Designation | FO1A, FO1B |
| Output description | Semiconductor outputs, p-wired |
| Number of outputs | 2 |
| Output voltage | min. ($U_B - 1.5$ V (HIGH FO1A, FO1B)) |
| | max. (U_B (HIGH FO1A, FO1B)) |
| | min. 0 V DC (LOW FO1A/FO1B) |
| | max. 1 V DC (LOW FO1A/FO1B) |
| Switching current | min. 1 mA (per safety output) |
| | max. 150 mA (per safety output) |
| Short-circuit-proof | yes |
| Utilization category in accordance with IEC 60947-5-2 | 150 mA (24 V (DC13)) |
| Note on protection circuit | NOTE: Protect the outputs under inductive loads with a freewheeling diode. |
| Residual current | \leq 0.25 mA |