

Safety switch sensor - PSR-CT-M-SEN-1-8 - 2702975

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

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 447025
GTIN	4055626447025
Weight per Piece (excluding packing)	41.100 g
Sales Key	DNA611

Safety switch sensor - PSR-CT-M-SEN-1-8 - 2702975

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	≤ 0.25 mA

Times

Switch-on delay	typ. 5 s (after switching U_B on)
-----------------	-------------------------------------