

# 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

## 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
Sales Key	DNA611

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## 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

### Times

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