2702975

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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. 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	2702975
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA611
Product key	DNA611
Catalog page	Page 213 (C-6-2019)
GTIN	4055626447025
Weight per piece (including packing)	41.03 g
Weight per piece (excluding packing)	40.3 g

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Customs tariff number	85365019
Country of origin	DE

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### Technical data

#### Notes

Note on application	Only for industrial use
uct properties	
Product type	Safety switches
Product family	PSR-CT
Technology	Transponder
Application	Safety door monitoring
	Position monitoring
Design in accordance with EN ISO 14119	4
Encoding level in accordance with EN ISO 14119	low
sulation characteristics	
Protection class	III
sulation characteristics	
Degree of pollution	3
imes	
Discrepancy time	max. 10 ms (between the safety outputs)
Switch-on delay	typ. 5 s (after switching U <sub>B</sub> on)
Switch-on time	max. 400 ms (for the safety outputs)
Risk time	max. 125 ms (Stand-alone device)
Test pulses	typ. 300 µs (Test pulse duration)
	approx. 100 ms (Test pulse interval)
Delay time	typ. 10 ms (Risk time delay per device)

#### **Electrical properties**

Switching frequency	max. 1 Hz
Short-circuit current	typ. 100 A (conditional short-circuit current)
Switching frequency	max. 1 Hz
Rated insulation voltage	max. 300 V
Rated surge voltage	max. 1.5 kV

Supply

Supply	
Supply voltage	24 V DC ±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)
Contact switching type	2 safe digital outputs

Output data



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Designation	DGN
Output description	p-wired
Number of outputs	1
Output voltage	min. (U <sub>B</sub> - 1.5 V (HIGH))
	max. (U <sub>B</sub> (HIGH))
	min. 0 V DC (LOW)
	max. 1 V DC (LOW)
Current	min. 1 mA
	max. 50 mA
Short-circuit-proof	yes
fety output	
Designation	FO1A, FO1B
Output description	Semiconductor outputs, p-wired
Number of outputs	2
Output voltage	min. (U <sub>B</sub> - 1.5 V (HIGH FO1A, FO1B))
	max. (U <sub>B</sub> (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)
Residual current	≤ 0.25 mA
Utilization category in accordance with IEC 60947-5-2	150 mA (24 V (DC13))
Short-circuit-proof	yes
Note on protection circuit	NOTE: Protect the outputs under inductive loads with a

#### Connection data

Connection technology	
Connection technology	M12 connector
pluggable	no
Number of positions	8
Conductor connection Connection method	Connector
Connection technology	M12 connector
Signaling	
Status display	2 LEDs

#### Dimensions



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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	
Degree of protection	IP65/IP67/IP69/IP69K
	IP67 (with SAC cabling)
Ambient temperature (operation)	-25 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Vibration (operation)	in accordance with EN 60947-5-2
Approvals	
Conformity/Approvals	
EMC conformance	EN 60947-5-3

Mounting

Mounting type	not flush
Assembly note	Note EN ISO 14119
	max. tightening torque to secure: 0.8 Nm
Mounting position	any

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## Drawings



Dimensional drawing

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Application drawing





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Connection diagram





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### Approvals

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## Classifications

#### ECLASS

	ECLASS-13.0	27274601
E	ГІМ	
	ETIM 9.0	EC003015
U	NSPSC	
	UNSPSC 21.0	32151800

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## Environmental product compliance

#### EU RoHS

Yes 6(c), 7(a), 7(c)-I EFUP-50 An article-related China RoHS declaration table can be found in
EFUP-50
An article related Chine DeLIC 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.
Lead titanium trioxide(CAS: 12060-00-3)
Lead(CAS: 7439-92-1)
fe998480-0ec0-43d2-b524-cc43d9d98f75

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