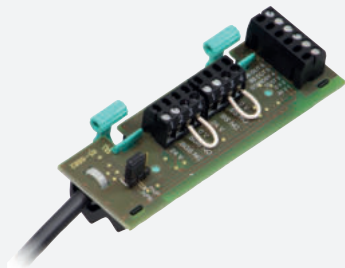
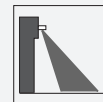


Accessory DGE DoorScan Relay Module

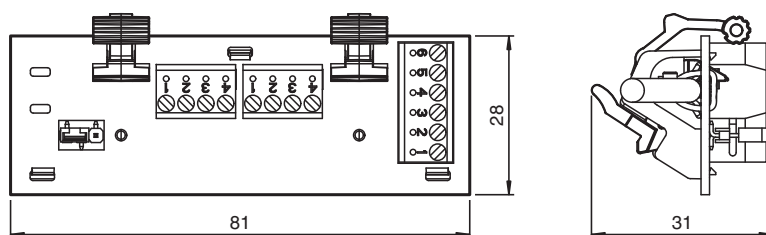


- Sensor module for configurable DoorScan® presence sensor
- Conversion of semiconductor signals to relay output signals
- Tool-free module mounting using snap-in mechanism

Replacement/extension sensor module for installation in the DoorScan® and TopScan sensor profile, multifunction interface module



Dimensions



Technical Data

Functional safety related parameters

Safety Integrity Level (SIL)	SIL 2
Performance level (PL)	PL d
Category	Cat. 2
MTTF _d	72 a
B _{10d}	2 E+8
B ₁₀	3 E+6

Indicators/operating means

Control elements	Jumper for interface PNP / NPN
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Electrical specifications

Operating voltage	U _B	24 V DC ± 20 %
No-load supply current	I ₀	30 mA

Input

Input type	Test, Standby , Relay supply
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Output

Signal output	Hinge side (BS): Relay, 1 alternator , Opposite hinge side (BGS): Relay, 1 alternator
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Release date: 2020-09-09 Date of issue: 2020-10-08 Filename: 254993_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

Technical Data

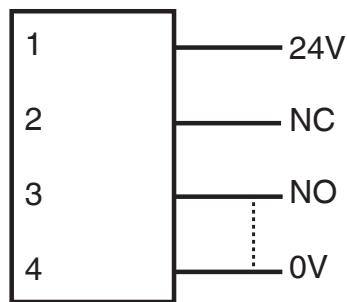
Switching voltage		24 V DC $\pm$ 20 %
Switching current		max. 100 mA
Response time		max. 15 ms in addition to switch-on delay for DoorScan®
De-energized delay	t_{off}	max. 15 ms
Compliance with standards and directives		
Directive conformity		
Machinery Directive 2006/42/EC		EN 12978:2003+A1:2009 EN ISO 13849-1:2008 + AC:2009 EN 16005:2012 Chapter 4.6.8
EMC Directive 2004/108/EC		EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011
Standard conformity		
Standards		EN 61508-1:2010 DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 7.3.2 BS 7036-2:1996 Chapter 8.1
Approvals and certificates		
CCC approval		CCC approval / marking not required for products rated $\leq$ 36 V
Ambient conditions		
Ambient temperature		-30 ... 60 °C (-22 ... 140 °F)
Relative humidity		25 ... 95 % (noncondensing)
Mechanical specifications		
Degree of protection		IP54 (iwhen mounted)
Connection		plug strip , 6-pin Interface , 4-pin Relay supply
Mass		approx. 30 g

Connection Assignment

Connection Terminal

1	BN	— 24V
2	BU	— 0V
3	GY	— TEST
4	PK	— STANDBY
5	BK	— BS OUT
6	WH	— BGS OUT

Configuration terminal, door hinge side
Configuration terminal, hinge opposite side
(can be used as an output as well)



(bridged between 0 V and NO by default)

Jumper



Safety Information



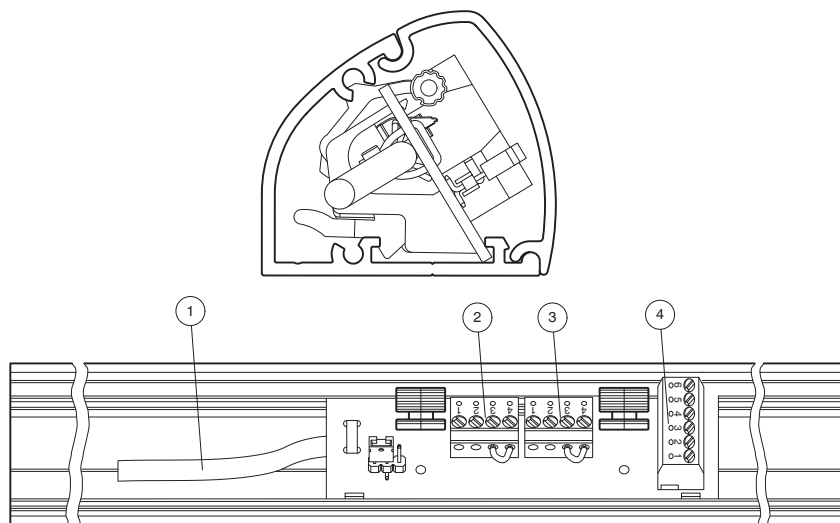
Attention!

The required Performance Level is achieved only if a NO contact is used to signal the state "No object in protection field."

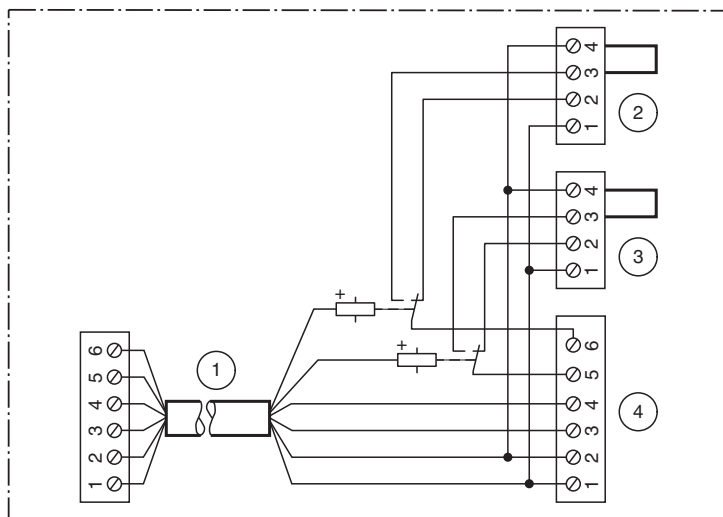
In particular:

- For synchronized DoorScan outputs, NO contacts must be evaluated on the relay module.
- For antivalent DoorScan outputs, the NO contact for the door hinge side and the NC contact for the hinge opposite side must be evaluated on the relay module.

Mounting



- 1 Interface connection cable
2 Configuration terminals, hinge opposite side
3 Configuration terminals, door hinge side
4 Terminal for door transition cable to drive



Bridging—Circuitry of configuration terminals

			24 V	0 V
2	BGS	NO	1 – 3	3 – 4*
		NC	1 – 2	2 – 4

3	BS	NO	1 – 3	3 – 4*
		NC	1 – 2	2 – 4

* = Default setting