



## Datasheet

Art.No. R1.188.3740.0

Device for monitoring of safety-related circuits

Base unit, single channel control, 2 enabling current paths, AC/DC 24 V 50-60Hz, screw terminals plugable



Art.No.	R1.188.3740.0
EAN	4049088129513
Order unit	1 pieces

## Approvals



#### Technical data

#### General

Function display	2 LED, green
Creepage distances and clearances between the circuits	EN 60664-1
Protection degree according to DIN EN 60529 (housing)	IP40
Protection degree according to DIN EN 60529 (terminals)	IP20
Ambient temperature min.	-25 °C
Ambient temperature max.	55 °C
Wire ranges screw terminals, fine-stranded / solid	1 x 0,14 mm <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,14 mm <sup>2</sup> - 0,75 mm <sup>2</sup>
Wire ranges screw terminals, fine-stranded with ferrules	1 x 0,25 mm <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,25 mm <sup>2</sup> - 0,5 mm <sup>2</sup>
Permissible torque min.	0.5 Nm
Permissible torque max.	0.6 Nm
Tightening moment	0.6 Nm
Wire range cage clamp terminals	2 x 0,25mm <sup>2</sup> - 1,5mm <sup>2</sup>
Weight	0.12 kg
Standards	EN ISO 13849-1;EN 62061
Suited for safety functions	Yes
Category according to EN ISO 13849-1	2
Muting possible	No
Feedback circuit	Yes
Start contact	Yes
Stop category acc. to IEC 60204	
Rail mounting possible	Yes

#### **Connection Data**

	Detachable clamps	Yes
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Type of electric connection Screw connection	ype of electric connection	
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# **Application**

Model	Basic device
Suitable for monitoring of magnetic switches	No
Suitable for monitoring of proximity switches	Yes
Suitable for monitoring of emergency-stop circuits	Yes
Suitable for monitoring of optoelectronic protection equipment	No
Suitable for monitoring of position switches	Yes
Suitable for monitoring of valves	No

## **Output circuit**

Enabling paths	Normally open contact	
Contact material	Ag-alloy	
Rated switching voltage, enabling paths AC	240 V	
Rated switching voltage, enabling paths DC	50 V	
Max. thermal current lth, enabling paths	6 A	
Max. total current l2 of all current path	72 A²	
Application category AC-15 (NO)	Ue 230V, le 3A	
Application category DC-13 (NO)	Ue 24V, le 3A	
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral	
Mechanical life	107 switching cycles	
Outputs, signalling function, undelayed, with contact	0	
Outputs, signalling function, delayed, with contact	0	
Outputs, safe, undelayed, with contact	2	
Outputs, safe, delayed, with contact	0	

## **Control circuit**

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	50 mA
max. peak current (safety circuit / reset circuit)	70 mA
Response time tA1	20 ms
Response time tA2	70 ms
Min. switch-on time	30 ms
Recovery time tW	200 ms
Release time tR	70 ms
max. resistivity, per channel	≤ (5 + (1,333 x UB / UN - 1) x 200) Ω
Evaluation inputs	1-channel

# Supply circuit

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Nominal voltage UN	AC/DC 24 V
Rated consumption AC	2 VA
Rated consumption DC	1 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Electrical isolation supply circuit - control circuit	No
Min. rated control supply voltage at AC 50 Hz	20.4 V
Max. rated AC voltage for controls, 50 Hz	26.4 V
Min. rated DC voltage for controls	20.4 V
Max. rated DC voltage for controls	26.4 V
Min. rated control supply voltage at DC	20.4 V
Rated control supply voltage at AC 60HZ	20.4 V
Rated control supply voltage at AC 50HZ	26.4 V





## **Dimensions**

Depth	98 mm
Width	22.5 mm
Height	83 mm

#### Classification

ECLASS 8.1	27371819: Device for monitoring of safety-related circuits
ETIM 5.0	EC001449: Device for monitoring of safety-related circuits
ETIM 4.0	EC001449: Device for monitoring of safety-related circuits
ETIM 3.0	EC001449: Emergency-stop relay





#### Drawings

