

## CET1-AR-CRA-CH-50X-SH-128057 (Order no. 128057)

### Technical data

#### Approvals



#### Workspace

Repeat accuracy R	
	according to EN 60947-5-2 10 %

#### Electrical connection values

Fuse	
external (operating voltage $U_B$ )	0.25 ... 8 A
external (operating voltage $U_{CM}$ )	0.5 ... 8 A

#### Power consumption

Solenoid 11 W

Operating voltage DC	
$U_B$	24 V DC -15% ... +15% reverse polarity protected, regulated, residual ripple<5%, PELV
LED1, LED2	24 V DC -15% V DC ... +10% V DC

EMC protection requirements Acc. to EN IEC 60947-5-3

Utilization category	
DC-13	24 V 200 mA (Caution: outputs must be protected with a free-wheeling diode in case of inductive loads)

#### Solenoid operating voltage DC

$U_{CM}$  24 V DC -15% ... +10% reverse polarity protected, regulated, residual ripple<5%, PELV

Solenoid duty cycle	100 %
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Risk time according to EN 60947-5-3 max. 400 ms

Risk time according to EN 60947-5-3, extension for each additional device	max. 5 ms
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## Switching load

according to UL 24V DC, Class 2  
(For alternatives, see operating instructions)

### Safety class

EN IEC 61140 III

### Current consumption

$I_{CM}$  450 mA

$I_B$  80 mA

### Test pulse duration

max. 1 ms

### Degree of contamination (external, according to EN 60947-1)

3

### Monitoring output OUT

#### Output type

Semiconductor output, p-switching, short circuit-proof

#### Output voltage

OUT 0.8xUB ... UB V DC

#### Output current

OUT 1 ... 50 mA

### Safety outputs OA / OB

#### Output type

Semiconductor outputs, p-switching, short circuit-proof

#### Output voltage

HIGH U(OA,OB) UB-1.5V ... UB V DC

(Values at a switching current of 50mA without taking into account the cable lengths)

LOW U(OA,OB) 0 ... 1 V DC

#### Output current

per safety output 1 ... 200 mA

#### Discrepancy time

both safety outputs max. 10 ms

#### Turn-on time

Safety outputs 400 ms

#### Off-state current $I_r$

max. 0.25 mA

#### Risk time according to EN 60947-5-3

Single device

## Mechanical values and environment

Approach speed	max. 20 m/min	
Connection type	1 plug connector M23, 19-pin, RC18	
Ready delay	10 s	
Installation orientation	any (preferably head downward)	
Switching frequency	max. 0.5 Hz	
Degree of freedom X	±5 mm	
Degree of freedom Y	±5 mm	
Degree of freedom Z	±4 mm	
Mechanical life	2 x 10 <sup>6</sup>	
Shock and vibration resistance	Acc. to EN IEC 60947-5-3	
Degree of protection	IP65/IP67 (screwed tight plug connector/mating component)	
Ambient temperature	at U <sub>B</sub> = 24 V DC -20 ... +55 °C	
Material	Ramp	Stainless steel
	Safety switch housing	Die-cast aluminum
Locking force F <sub>max</sub>	6500 N	
Locking force F <sub>Zh</sub>	5000 N	
Guard locking principle	Closed-circuit current principle	

## Characteristic values according to EN ISO 13849-1 and EN IEC 62061

Mission time	20 y	
<b>Control of guard locking</b>		
Category	Depending on external control of guard locking	
Performance Level	Depending on external control of guard locking (LEDs have the same ground potential as the guard locking solenoid)	
PFH <sub>D</sub>	Depending on external control of guard locking (LEDs have the same ground potential as the guard locking solenoid)	

## Monitoring of guard locking and the guard position

Category	
Any installation orientation	4
Performance Level	PL e
PFH <sub>D</sub>	
Any installation orientation	3.1 x 10 <sup>-9</sup>

**Miscellaneous**

C number	
C2312	extended escape release
The following applies to the approval according to UL	Operation only with UL Class 2 power supply or equivalent measures; see operating instructions
Classification according to EN IEC 60947-5-3	PDF-M