



### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Connection	1/2"-20 UNF-2A-Male
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

### Electrical data

Min. operating current $I_m$	5 mA
Operating voltage $U_b$	20...250 VDC/20...250 VAC
Protection class	I
Rated insulation voltage $U_i$	250 V AC
Rated operating current $I_e$	250 mA
Rated operating voltage $U_e$ AC	110 V
Rated short circuit current	100 A
Ready delay $t_v$ max.	100 ms
Residual current $I_r$ max.	1700 $\mu$ A
Switching frequency	400 Hz
Utilization category	AC-140 DC -13
Voltage drop static max.	11 V

### Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

### General data

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2

### Material

Housing material	Brass
Material sensing surface	PA 12
Surface protection	nickel plated

### Mechanical data

Dimension	$\varnothing$ 18 x 70.5 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	35 Nm

### Output/Interface

Switching output	Normally closed (NC)
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### Range/Distance

Assured operating distance $S_a$	4 mm
Hysteresis $H$ max. (% of $S_r$ )	15.0 %
Rated operating distance $S_n$	5 mm
Real switching distance $s_r$	5 mm
Repeat accuracy max. (% of $S_r$ )	5.0 %
Temperature drift max. (% of $S_r$ )	10 %
Tolerance $S_r$	$\pm$ 10 %

## Remarks

Flashing LED indicates overload. Once the overload has been eliminated, interrupt operating voltage  $V_s$  for approx. 2 sec.  
 $T_a \geq 25\text{ °C} \dots \leq 70\text{ °C}$ :  $I_e = 250 - 2.2 \times (T_a - 25)$

## Connector Drawings



## Wiring Diagrams

