



LISTED  
 IND.CONT.EQ  
 81U2



### Basic features

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

### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Cable diameter D	4.60 mm
Cable length L	5 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 5.00 m, PVC
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

### Electrical data

Min. operating current I <sub>m</sub>	5 mA
Operating voltage U <sub>b</sub>	20...250 VDC/20...250 VAC
Protection class	II
Rated insulation voltage U <sub>i</sub>	250 V AC
Rated operating current I <sub>e</sub>	250 mA
Rated operating voltage U <sub>e</sub> AC	110 V
Rated short circuit current	100 A
Ready delay t <sub>v</sub> max.	100 ms
Residual current I <sub>r</sub> max.	1700 µA
Switching frequency	100 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
Protection degree	IP67

### Material

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

## Mechanical data

Dimension	Ø 30 x 61.5 mm
Installation	non-flush
Size	M30x1.5
Tightening torque	70 Nm

## Output/Interface

Switching output	Normally open (NO)
------------------	--------------------

## Range/Distance

Assured operating distance Sa	12.1 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	15 mm
Real switching distance sr	15 mm
Repeat accuracy max. (% of Sr)	10.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

## Remarks

Once the overload has been eliminated, interrupt operating voltage Vs for approx. 2 sec.  
 $T_a \geq 25 \text{ °C} \dots \leq 70 \text{ °C}$ :  $I_e = 250 - 1.6 \times (T_a - 25)$

## Wiring Diagrams

