

IND. CONT. EQ.
 81U2
 Type 1

Basic features

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

Display/Operation

Function indicator	yes
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Electrical connection

Cable diameter D	4.60 mm
Cable length L	2 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 2.00 m, PVC
Number of conductors	2
Polarity reversal protected	yes
Short-circuit protection	no

Electrical data

Min. operating current I _m	5 mA
Operating voltage U _b	20...250 VAC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	500 mA
Rated operating voltage U _e AC	110 V
Ready delay t _v max.	100 ms
Residual current I _r max.	1500 µA
Switching frequency	25 Hz
Utilization category	AC-140
Voltage drop static max.	4 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 18 x 56 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	40 Nm

Output/Interface

Switching output	Normally open (NO)
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Range/Distance

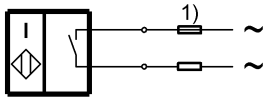
Assured operating distance S _a	4 mm
Hysteresis H max. (% of S _r)	15.0 %
Rated operating distance S _n	5 mm
Real switching distance s _r	5 mm
Repeat accuracy max. (% of S _r)	5.0 %
Temperature drift max. (% of S _r)	10 %
Tolerance S _r	±10 %

Remarks

Recommendation: After a short circuit check the device for proper function.

A filter is required for the EMC protection circuit. Conducted interference emission. Epcos, Model: B84112B0000B030.

Wiring Diagrams



1) For SCP see electrical data