



1) Active surface 2) Housing 3) Top cover 4) Pot 5) LED Power 6) LED function indicator

- NPN
- Normally open (NO)
- 4.00 mm
- Flush (shielded)
- Cable, PUR, 2.00 m

- switching distance adjustable



IND. CONT. EQ. 81U2  
for use in the secondary of  
a class 2 source of supply



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**General attributes**

Approvals / Conformity	CE cULus IEC 60947-5-2
Basic standard	IP67
Enclosure Type per IEC 60529	Yes
Function indicator	Yes
Polarity reversal protected	Yes
Power indicator	Yes
Protection Class	II
Scope of delivery	2 nuts
Short circuit protected	Yes
Trademark	GLOBAL

**Electrical attributes**

Connection type	Cable
Eff. operating current I <sub>e</sub>	100 mA
Eff. operating voltage U <sub>e</sub> DC	24.0 V
Electrical version	DC, direct current
Max. no-load cur. I <sub>o</sub> undamped	15.0 mA
No-load current I <sub>o</sub> damped max.	18.0 mA
Operating voltage U <sub>B</sub> max. DC [V]	30.0 V
Operating voltage U <sub>B</sub> min. DC [V]	10.0 V
Rated insulation voltage U <sub>i</sub>	75 V DC
Ripple max. (% of U <sub>e</sub> )	10 %
Sensitivity	switching distance adjustable
Switching freq. f max. (at U <sub>e</sub> )	100 Hz

Switching function  
Switching output  
Voltage drop static max.

Normally open (NO)  
NPN  
1.5 V

**Mechanical attributes**

Ambient temperature T <sub>a</sub> max.	85 °C
Ambient temperature T <sub>a</sub> min.	-25 °C
Cable diameter D max.	3.5 mm
Cable jacket material	PUR
Cable length L [m]	2.00 m
Conductor cross-section	0.14 mm <sup>2</sup>
Cover material	PA
Depth	61.0 mm
Diameter d1	M12x1.0
Housing material	PBT
Mech. installation condition	Flush (shielded)
Mounting length	47.0 mm
Number of conductors	3
Rated operating distance S <sub>n</sub> [mm]	4.00 mm
Sensing face material	PBT
Storage temperature max.	+85 °C
Storage temperature min.	-25 °C
Tightening torque	1 Nm
Working range S <sub>a</sub> max.	4.00 mm
Working range S <sub>a</sub> min. [mm]	1.00 mm

