



- PNP
- Normally open (NO)
- 4.00 mm
- Flush (shielded)
- Connector, M12x1-S04



IND. CONT. EQ  
81U2  
for use in the secondary of  
a class 2 source of supply  
Environmental - Type 1 Enclosure



**General attributes**

Approvals / Conformity

cULus  
CE  
EAC  
IEC 60947-5-2  
IP68 according to BWN PR 20  
Yes  
■  
Yes  
No  
II  
Yes  
GLOBAL  
640 a

Basic standard  
Enclosure Type per IEC 60529  
Function indicator  
Operating distance marking  
Polarity reversal protected  
Power indicator  
Protection Class  
Short circuit protected  
Trademark  
MTTF

**Electrical attributes**

Connection type  
Eff. operating current I<sub>e</sub>  
Eff. operating voltage U<sub>e</sub> DC  
Electrical version  
Load capacitance max. (at U<sub>e</sub>)  
Max. no-load cur. I<sub>o</sub> undamped  
Minimum operating current I<sub>m</sub>  
No-load current I<sub>o</sub> damped max.  
Operating voltage U<sub>B</sub> max. DC [V]  
Operating voltage U<sub>B</sub> min. DC [V]  
Rated insulation voltage U<sub>i</sub>  
Rated short circuit current  
Ripple max. (% of U<sub>e</sub>)

Connector  
200 mA  
24.0 V  
DC, direct current  
0.500 µF  
3.0 mA  
0 mA  
6.0 mA  
30.0 V  
10.0 V  
250 VAC  
100 A  
15 %

Switching freq. f max. (at U<sub>e</sub>)  
Switching function  
Switching output  
Voltage drop static max.

1000 Hz  
Normally open (NO)  
PNP  
3.0 V

**Mechanical attributes**

Ambient temperature T<sub>a</sub> max.  
Ambient temperature T<sub>a</sub> min.  
Assured operating distance S<sub>a</sub>  
Connector type  
Depth  
Diameter d1  
Eff. operating distance S<sub>r</sub>  
Housing material  
Mech. installation condition  
Mounting length  
Rated operating distance S<sub>n</sub> [mm]  
Sensing face material  
Surface protection  
Tightening torque

70 °C  
-25 °C  
3.20 mm  
M12x1-S04  
65.0 mm  
M12x1  
4.00 mm  
CuZn  
Flush (shielded)  
49.5 mm  
4.00 mm  
LCP  
Nickel-free coating  
10 Nm

**Remarks**

The sensor is functional again after the overload has been eliminated.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

