



- PNP
- Normally open (NO)
- 5.00 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

Basic standard  
Enclosure Type per IEC 60529  
Function indicator  
Polarity reversal protected  
Power indicator  
Short circuit protected  
MTTF

CE  
cULus  
EAC  
IEC 60947-5-2  
IP67  
Yes  
Yes  
No  
Yes  
830 a

Switching output

Voltage drop static max.

PNP

2.0 V

**Electrical attributes**

Connection type  
Eff. operating current  $I_e$   
Eff. operating voltage  $U_e$  DC  
Electrical version  
Load capacitance max. (at  $U_e$ )  
Max. no-load cur.  $I_o$  undamped  
Minimum operating current  $I_m$   
No-load current  $I_o$  damped max.  
Operating voltage  $U_B$  max. DC [V]  
Operating voltage  $U_B$  min. DC [V]  
Rated insulation voltage  $U_i$   
Rated short circuit current  
Ripple max. (% of  $U_e$ )  
Switching freq.  $f$  max. (at  $U_e$ )  
Switching function

Connector  
200 mA  
24.0 V  
DC, direct current  
1.000  $\mu$ F  
3.0 mA  
0 mA  
10.0 mA  
30.0 V  
10.0 V  
75 VDC  
100 A  
15 %  
1000 Hz  
Normally open (NO)

**Mechanical attributes**

Ambient temperature  $T_a$  max. 70 °C  
Ambient temperature  $T_a$  min. -25 °C  
Assured operating distance  $S_a$  4.00 mm  
Connector type M12x1-S04  
Depth 44.5 mm  
Diameter  $d_1$  M18x1  
Eff. operating distance  $S_r$  5.00 mm  
Housing material CuZn  
Mech. installation condition Flush (shielded)  
Mounting length 29.5 mm  
Rated operating distance  $S_n$  [mm] 5.00 mm  
Sensing face material PBT  
Surface protection Nickel-plated  
Tightening torque 25 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.

