



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



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

**General attributes**

## Approvals / Conformity

Basic standard	CE
Enclosure Type per IEC 60529	cULus
Function indicator	IEC 60947-5-2
Polarity reversal protected	IP68 according to BWN PR 20
Power indicator	Yes
Protection Class	Yes
Short circuit protected	No
Trademark	II
	Yes
	GLOBAL

**Electrical attributes**

Connection type	Connector
Eff. operating current I <sub>e</sub>	200 mA
Eff. operating voltage U <sub>e</sub> DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at U <sub>e</sub> )	1.000 µF
Max. no-load cur. I <sub>o</sub> undamped	6.0 mA
Minimum operating current I <sub>m</sub>	0 mA
No-load current I <sub>o</sub> damped max.	15.0 mA
Operating voltage U <sub>B</sub> max. DC [V]	30.0 V
Operating voltage U <sub>B</sub> min. DC [V]	12.0 V
Rated insulation voltage U <sub>i</sub>	250 VAC
Rated short circuit current	100 A

Ripple max. (% of U <sub>e</sub> )	15 %
Switching freq. f max. (at U <sub>e</sub> )	700 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	2.5 V

**Mechanical attributes**

Ambient temperature T <sub>a</sub> max.	70 °C
Ambient temperature T <sub>a</sub> min.	-25 °C
Assured operating distance S <sub>a</sub>	4.00 mm
Connector type	M12x1-S04
Depth	65.0 mm
Diameter d1	M18x1
Eff. operating distance S <sub>r</sub>	5.00 mm
Housing material	CuZn
Mech. installation condition	Flush (shielded)
Mounting length	50.0 mm
Rated operating distance S <sub>n</sub> [mm]	5.00 mm
Sensing face material	PA 12
Surface protection	Nickel-plated
Tightening torque	35 Nm

**Additional text**

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

