

- 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 IEC 60947-5-2 IP68 according to BWN PR 20
Basic standard	Yes
Function indicator	■
Operating distance marking	Yes
Polarity reversal protected	No
Power indicator	II
Protection Class	Yes
Short circuit protected	GLOBAL
Trademark	

**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> )	0.500 µF
Max. no-load cur. I <sub>o</sub> undamped	3.0 mA
Minimum operating current I <sub>m</sub>	0 mA
No-load current I <sub>o</sub> damped max.	6.0 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>	250 VAC

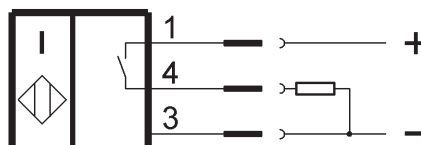
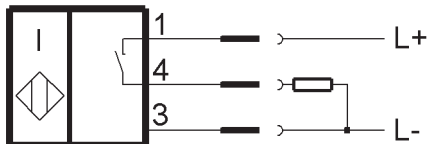
Rated short circuit current	100 A
Ripple max. (% of U <sub>e</sub> )	15 %
Switching freq. f max. (at U <sub>e</sub> )	1000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Voltage drop static max.	3.0 V

**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>	3.20 mm
Connector type	M12x1-S04
Depth	65.0 mm
Diameter d1	M12x1
Eff. operating distance S <sub>r</sub>	4.00 mm
Housing material	CuZn
Mech. installation condition	Flush (shielded)
Mounting length	49.5 mm
Rated operating distance S <sub>n</sub> [mm]	4.00 mm
Sensing face material	LCP
Surface protection	Nickel-free coating
Tightening torque	10 Nm

**Additional text**

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



Inductive sensor

**BES M12MI-PSC40B-S04G**  
**BES0068**

**BALLUFF**  
*sensors worldwide*

