Inductive sensor
BES M18MI-PSC50B-BV02
BES0082

BALLUFF

sensors worldwide

- **PNP**
- **Normally open (NO)**
- **5.00 mm**
- **Flush (shielded)**
- **Cable, PVC, 2.00 m**

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

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

EAC

General attributes	
Approvals / Conformity	CE
	cULus
	EAC
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP68 according to BWN PR 20
Function indicator	Yes
Polarity reversal protected	Yes
Power indicator	No
Protection Class	II
Short circuit protected	Yes
Trademark	GLOBAL
MTTF	710 a

Electrical attributes	
Connection type	Cable
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	1.000 µF
Max. no-load cur. Io undamped	6.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	15.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	12.0 V
Rated insulation voltage Ui	250 VAC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	700 Hz
Switching function	Normally open (NO)
Switching output	PNP

Voltage drop static max.	2.5 V

Mechanical attributes	
Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	4.00 mm
Cable diameter D max.	4.6 mm
Cable jacket material	PVC
Cable length	2.00 m
Conductor cross-section	0.34 mm²
Continuous shock load	Half-sinus, 100gn, 2ms, 3x8000
Depth	56.0 mm
Diameter d1	M18x1
Eff. operating distance Sr	5.00 mm
Housing material	CuZn
Mech. installation condition	Flush (shielded)
Mounting length	50.0 mm
Number of conductors	3
Rated operating distance Sn [mm]	5.00 mm
Sensing face material	PA 12
Surface protection	Nickel-plated
Tightening torque	35 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.

Internet	www.balluff.com	For definitions of terms, see main catalog	BES0082_153704_01/01/16	1(1)
Balluff Germany	+49 (0) 7158 173-0, 173-370	Subject to change		
Balluff USA	1-800-543-8390			
Balluff China	+86 (0) 21-50 644131			