Inductive sensor

BES M18EG1-PSC10Z-S04G-S11
BES02Y3

BALLUFF

1) Area of pressure resistance

- **PNP**
- **Normally open (NO)**
- **10.00 mm**
- **Quasi embeddable**
- **Connector, M12x1-S04**

CE cULus IND. CONT. EQ. 11RZ EAC

General attributes

Approvals / Conformity	CE
	cULus
	EAC
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	Yes
Operating distance marking	▪▪
Polarity reversal protected	Yes
Power indicator	No
Short circuit protected	Yes
Trademark	SteelFace
MTTF (40°C)	375 a

Electrical attributes

Connection type	Connector
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	9.0 mA
Minimum operating current Im	0 mA
No-load current Io damped max.	16.0 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching freq. f max. (at Ue)	200 Hz
Switching function	Normally open (NO)
Switching output	PNP

Voltage drop static max.	2.0 V

Mechanical attributes

Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	-25 °C
Assured operating distance Sa	8.10 mm
Connector type	M12x1-S04
Depth	63.5 mm
Diameter d1	M18x1
Eff. operating distance Sr	10.00 mm
Housing material	Stainless steel
Mech. installation condition	Quasi embeddable
Mounting length	42.0 mm
Pressure resistance	pressure-rated up to 60 bar
Rated operating distance Sn [mm]	10.00 mm
Sensing face material	Stainless steel
Tightening torque	50 Nm ±10 %

Remarks

The sensor is functional again after the overload has been eliminated.
When installing in metals the switching distance may be reduced by upto 50 %. See Installation Instruction 841020.
Installation permitted only in clamp with no positive stop.
LED flashes between 100 % and approx. 70 % of Sr

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	BES02Y3_145942_29/06/16 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		