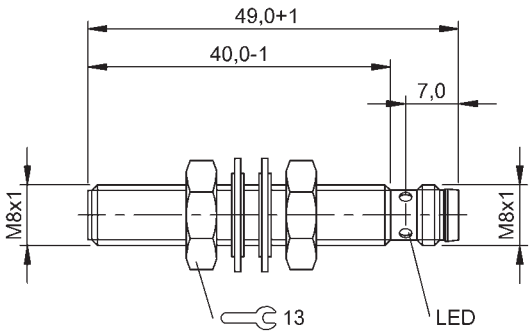
Inductive sensor

BES M08EG-PSC15A-S49G-W
BES02YR

BALLUFF
sensors worldwide



- **PNP**
- **Normally open (NO)**
- **1.50 mm**
- **Flush (shielded)**
- **Connector, M08x1-S49**

General attributes

Additional features	Weld-spatter resistant
	Factor 1
Approvals / Conformity	CE
	EAC
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Function indicator	Yes
Magnetic field immune	immune to magnetic DC and AC fields
Polarity reversal protected	Yes
Power indicator	No
Short circuit protected	Yes
Trademark	Factor 1

Electrical attributes

Connection type	Connector
Eff. operating current Ie	150 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at Ue)	1.000 µF
Magnetic field strength	100 kA/m
Max. no-load cur. Io undamped	15.0 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]	10.0 V
Rated insulation voltage Ui	75 VDC
Rated short circuit current	100 A
Ripple max. (% of Ue)	10 %
Switching freq. f max. (at Ue)	2000 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	1.20 mm
Connector type	M08x1-S49
Depth	49.0 mm
Diameter d1	M08x1
Eff. operating distance Sr	1.50 mm
Housing material	1.4301
Mech. installation condition	Flush (shielded)
Mounting length	40.0 mm
Rated operating distance Sn [mm]	1.50 mm
Sensing face material	PBT + PTFE
Surface protection	PTFE coating
Tightening torque	10 Nm

Additional text
EMC: For operating conditions with noise factors; external protectioncircuit required.
Document 825345.
The sensor is functional again after the overload has been eliminated.

