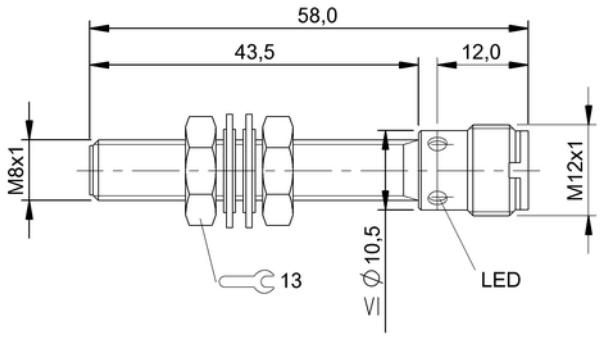
BES M08EH-PSC20B-S04G
Ordering code: BES01PH

BALLUFF
sensors worldwide

Inductive sensor
M08x58 mm

DC, direct current
PNP/Normally open (NO)
Sn= 2 mm
Flush (shielded)
■■



Characteristic data

Assured operating distance Sa	1,60
Eff. switching distance Sr	2,00 mm
Tolerance Sr	±10 %
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10 %
Switching freq. f max.	1500 Hz
Ready delay tv max.	20 ms
Utilisation category	DC 13
Function indicator	Yes
Power indicator	No
Short-circuit protected	Yes
Protected against polarity reversal	Yes
Protected against miswiring	Yes
Enclosure Type per IEC 60529	IP68 according to BWN PR 20
Protection class	II

Electrical data

Operating voltage	10...30 V DC
Ripple max. (% of Ue)	15
Rated operating voltage Ue DC	24,0 V
Voltage drop static max.	2,5 V
Rated insulation voltage Ui	250 AC
Effective operating current Ie	200 mA
No-load current Io damped max.	9 mA
Max. no-load cur. Io undamped	3 mA
Off-state current Ir max.	20 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	33.0k + D
Load capacitance max. (at Ue)	0,5 µF

Mechanical data

Connection type	Connector
Connector type	M12x1-S04
Housing material	Stainless steel
Sensing surface material	PBT
Mounting length	43 mm
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3
Tightening torque	8 Nm

Basic data

Basic standard	IEC 60947-5-2

Remarks

The sensor is functional again after the overload has been eliminated.
Embeddable: See installation notes for inductive sensors with extended switching distance 825357.
With connector, e.g. BKS-S 20-… total length = switch length +18 mm.

CE ⧈ c UL us LISTED IND. CONT. EQ. 81U2 for use in the secondary of a class 2 source of supply

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