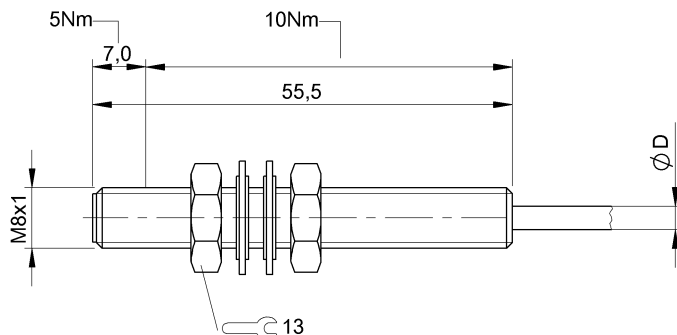


BES 516-324-SA8-05
Ordering code: BES02HR

Inductive sensor
M08x55,5 mm

DC, direct current
PNP/Normally open (NO)
Sn = 1 mm
Flush (shielded)

BALLUFF
sensors worldwide



Characteristic data

Eff. switching distance Sr	1,00 mm
Tolerance Sr	±10 %
Assured operating distance Sa	0,80 mm
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...100 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max.	2000 Hz
Ready delay tv max.	10 ms
Utilisation category	DC 13
Function indicator	No
Power-on indicator	No
Short-circuit protected	No
Degree of protection as per IEC 60529	IP67
Protected against polarity reversal	Yes
Protected against reverse connection	No

Electrical data

Operating voltage	
Rated operating voltage Ue DC	24,0 V
Ripple max. (% of Ue)	15 %
Voltage drop static max.	1,5 V
Rated insulation voltage Ui	75 DC V
Effective operating current Ie	200 mA
No-load current Io damped	20 mA
No-load current Io undamped	12 mA
Off-state current Ir max.	80 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	4.7k + D

Load capacitance max. (at Ue)
Principle of operation
Recommended K-type SCP

1 µF
Inductive
Miniature fuse according IEC60127-2
Sheet 1, ≤ 2 A (quick/acting). Fuse
must be in load line. Fuse must not be
in outp. line.

Mechanical data

Housing material	1.4034
Sensing surface material	PBT
Tightening torque max.	5 Nm / 10 Nm
Mounting length	55,5 mm
Connection type	Cable
Cable jacket material	PVC
Cable diameter D max.	3,7 mm
Cable short designation	LiY-Y-O
Cable length	5 m
Number of conductors	3
Conductor cross-section	0.14 mm²
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

Basic data

Basic standard	IEC 60947-5-2
Base type	BES 516-324-EO-X

Remarks

Recommendation: After a short circuit check the device for proper function.
Ta ≥ 70 °C... ≤ 100 °C: Ie ≤ 150 mA.



BES 516-324-SA8-05
Ordering code: BES02HR

Inductive sensor
M08x55,5 mm

DC, direct current
PNP/Normally open (NO)
Sn = 1 mm
Flush (shielded)

BALLUFF
sensors worldwide

Definitions see main catalog

subject to change

