

Inductive sensor



Picture can differ from actual product

Order Code : BHS002C
BES 516-300-S237-D-PU-05

Keyfeatures

Size	M16
Connection	Cable, 5m, PUR
Switching output / function	PNP/Normally closed (NC)
Operating voltage	10...30 V DC
Special properties	High-pressure-rated
Mechanical installation condition	Flush (shielded)
Rated operating distance Sn	1,5 mm

General attributes

Ready delay tv max.	10 ms
Utilisation category	DC 13
Switching freq. f max.	1000 Hz
Temp. drift max. (% of Sr)	10%
Repeat accur. R max. (% of Sr)	5 %
Power-on indicator	No
Basic standard	IEC 60947-5-2
Function indicator	No

Short-circuit protected	Yes
Degree of protection as per IEC 60529	IP68 according to BWN PR 20
Protected against polarity reversal	Yes
Protected against reverse connection	Yes
Part number sealing ring	703843
Part number thrust ring	505953
Additional text	The sensor is functional again after the overload has been eliminated. Installation instructions 614804.

Electrical attributes

Output resistance Ra	33.0k + D
Rated operating voltage Ue DC	24
Effective operating current Ie	200 mA
Rated insulation voltage Ui	75 DC
Rated short circuit current	100 A
Electrical version	DC, direct current
Hysteresis H max. (in % of Sr)	15 %
Minimum operating current Im	0 mA
Load capacitance max. (at Ue)	0,5 μ F
No-load current Io damped	10 mA
No-load current Io undamped	1 mA
Off-state current Ir max.	10 μ A
Ripple max. (% of Ue)	15
Switching output	PNP
Switching function	Normally closed (NC)
Voltage drop static max.	1,5 V
Principle of operation	Inductive

Operating voltage 10...30 V DC

Mechanical attributes

Ambient temperature -25...80 °C

Number of conductors 3

Tightening torque max. 40 Nm ±10%

Pressure resistance oilpressure-rated to 350 bar

Assured operating distance Sa 0...1,2 mm

Cable short designation Li9Y11Y-O

Cable length 5 m

Conductor cross-section 0.34 mm²

Eff. switching distance Sr 1,5 mm

Shock rating Shock, half-sinus, 30 gn, 11ms

Vibration rating 55 Hz, 1 mm ampl., 3x30 min

Degree of contamination 3

Sensing surface material EP

Sealing ring material NBR 60-80

Housing material 1.4104

Cable jacket material PUR

Cable diameter D max. 4,6

Size sealing ring 11.0 x 1.8

Thrust ring material PTFE

Tolerance Sr ±10 %

Mounting hi-pressure switches M16x1