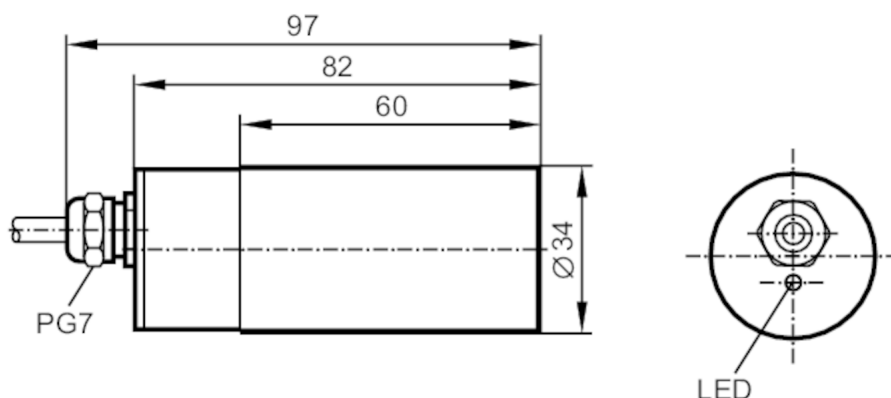


Inductive sensor

IB-2020-ABOA/MS/6M/SS



Product characteristics

Output function		normally open
Sensing range	[mm]	20
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 82

Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		yes

Outputs

Output function		normally open
Max. voltage drop switching output DC	[V]	6.5
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	20
Switching frequency DC	[Hz]	70
Short-circuit proof		no
Overload protection		no

Detection zone

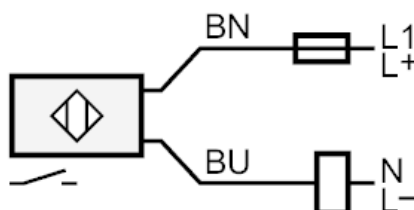
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2



Inductive sensor

IB-2020-ABOA/MS/6M/SS

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	3...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	606
Mechanical data		
Weight	[g]	519
Housing	cylindrical	
Mounting	non-flush mountable	
Dimensions	[mm]	Ø 34 / L = 82
Materials	housing: PBT; end cap: brass nickel-plated; PG cable gland: brass nickel-plated	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories		
Items supplied	Mounting clamps: 1	
Remarks		
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity	1 pcs.	
Electrical connection		
Cable: 6 m, silicone; 2 x 0.75 mm²		
Connection		



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colours :

BN = brown
BU = blue