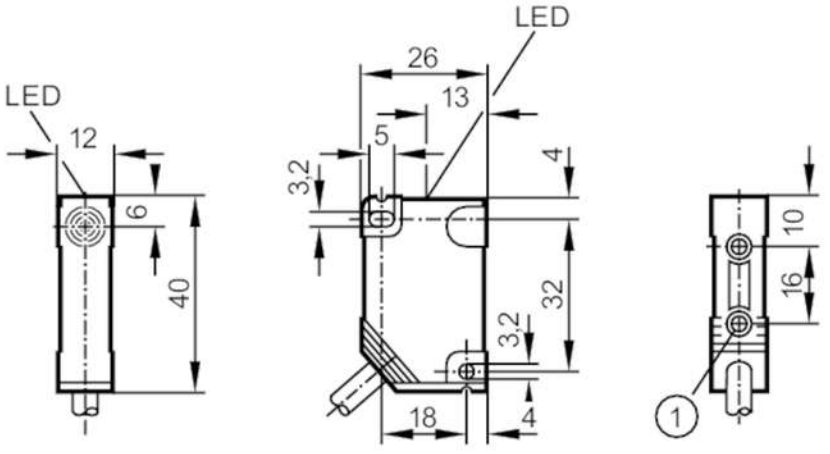
IN5451

Inductive sensor

IN-3007-BPKG/0,3M/AS



1 threaded bush M3 Depth 5.8 mm
Tightening torque maximum 1.2 Nm screw fixing class 8.8
when brass insert in contact with counterpart

Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	7
Housing		rectangular
Dimensions	[mm]	40 x 12 x 26
Electrical data		
Operating voltage	[V]	10...36 DC; ("supply class 2" according to UL)
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	300
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	7
Real sensing range Sr	[mm]	7 ± 10 %
Operating distance	[mm]	0...5.67

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	0...60	
Protection		IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD	8 kV CD / 15 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 55011 emission	class B
UL approval		Ta	-25...40 °C
		Enclosure type	Type 1
		power supply	Class 2
		File number UL	E174191
Mechanical data			
Weight	[g]	26.9	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 12 x 26	
Materials		PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			

Cable: 0.3 m, PUR, Ø 3.5 mm; 3 x 0.14 mm²

Connector: 1 x M8, straight; coding: A



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Connection

