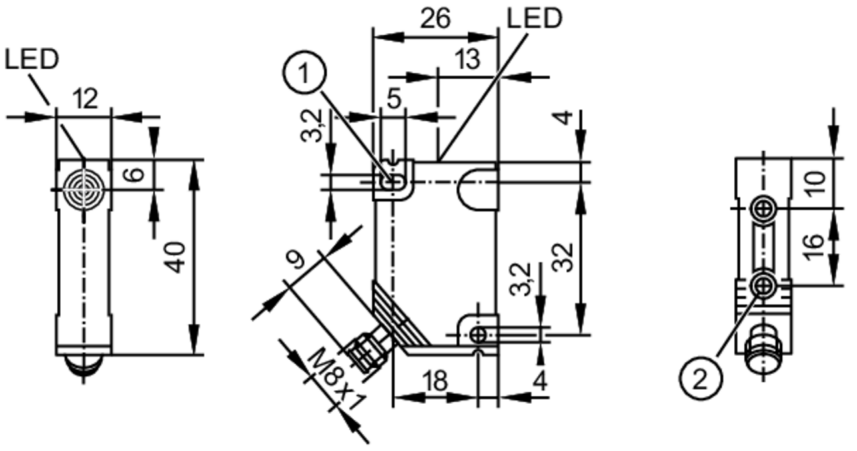
IN5269

Inductive sensor

IN-2002-FRKG/AS-610-TRF



1 mounting hole
2 threaded bush M3 Depth 5.8 mm

Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	40 x 12 x 26
Electrical data		
Operating voltage	[V]	10...36 DC
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	1300
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6

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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]	-25...80	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	1773	
Mechanical data			
Weight	[g]	20.2	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	40 x 12 x 26	
Materials		PBT	
Mounting hole			
Tightening torque	[Nm]	< 0.5	
Threaded bush			
Tightening torque	[Nm]	< 1.2; (when brass insert in contact with counterpart)	
Displays / operating elements			
Display		switching status	1 x LED, red
Remarks			
Pack quantity		1 pcs.	

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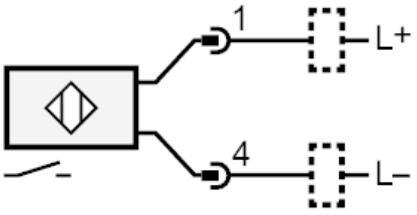
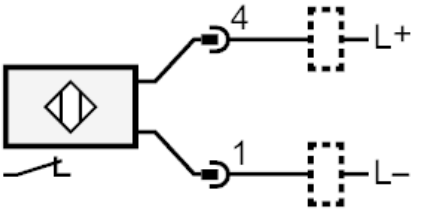
Electrical connection - plug

Connector: 1 x M8; coding: A