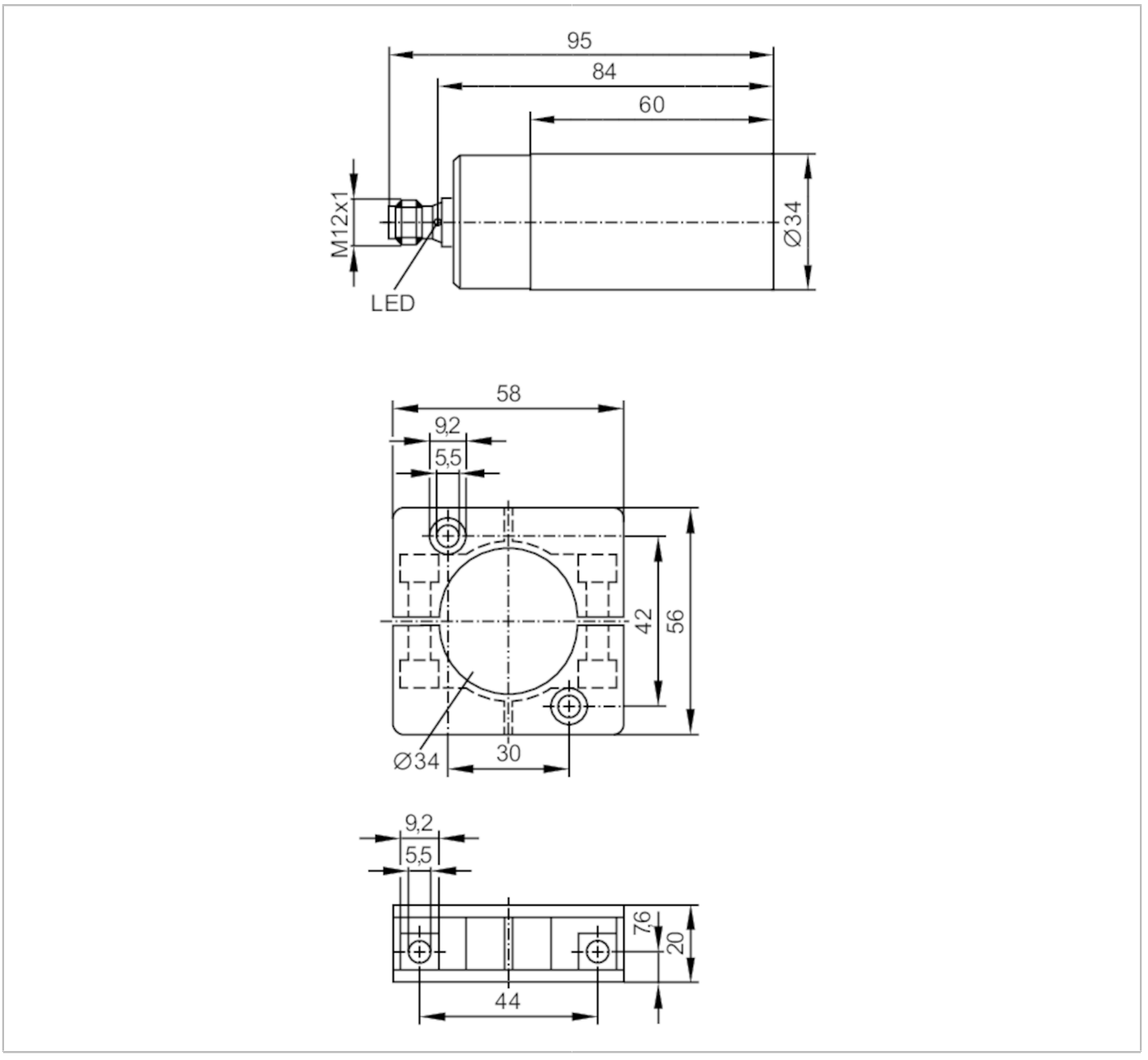
IB5169

Inductive sensor

IB-2020-FRKG/US-104-IRF



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	20
Housing		cylindrical
Dimensions	[mm]	Ø 34 / L = 95
Application		
Special feature		Gold-plated contacts
Electrical data		
Operating voltage	[V]	10...36 DC

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Protection class		II
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]	1
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	200
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	1941
Mechanical data		
Weight	[g]	226
Housing		cylindrical
Mounting		non-flush mountable
Dimensions	[mm]	Ø 34 / L = 95
Materials		housing: PBT; sensing face: PBT orange; clamp: PBT black
Displays / operating elements		
Display		switching status: 4 x 90° LED, yellow
Accessories		
Items supplied		Mounting clamps: 1
Remarks		
Pack quantity		1 pcs.

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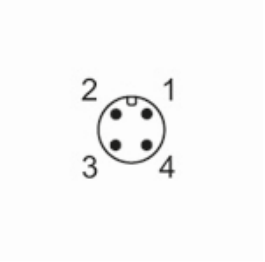
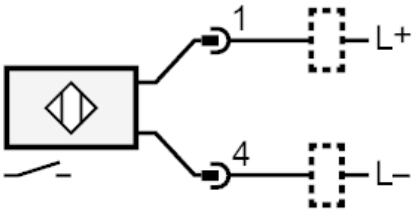
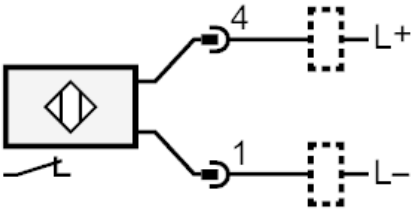
Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: brass, anti-spatter; Contacts: gold-plated