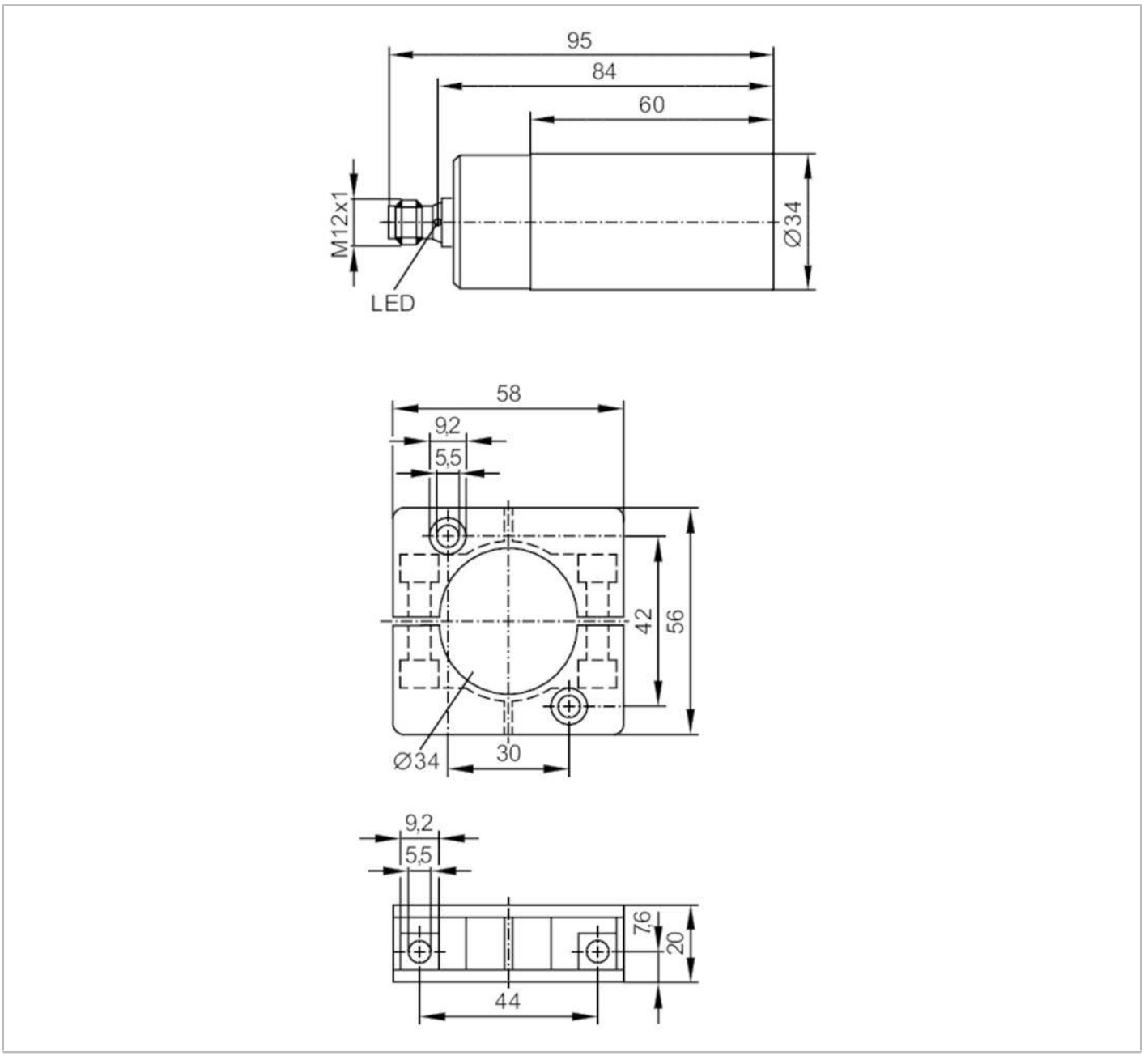
IB5169

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



