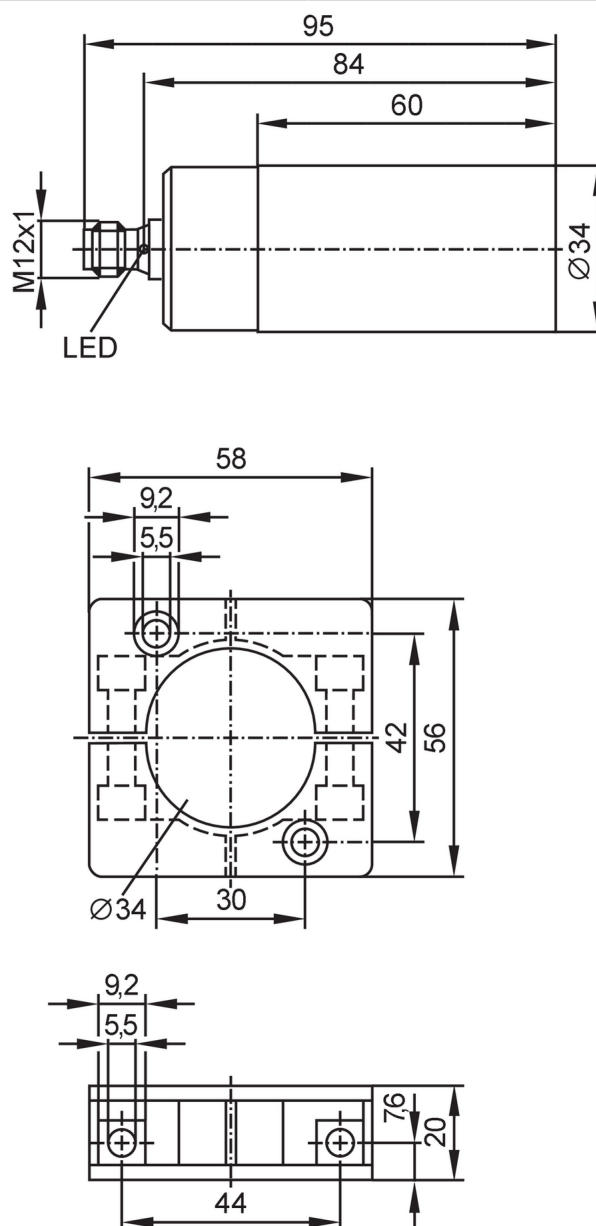




Inductive sensor

IB-2020-FRKG/US-104-IRF



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	20
Housing	tubular
Dimensions [mm]	Ø 34 / L = 95

Application

Special feature	gold-plated contacts
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Electrical data

Operating voltage [V]	10...36 DC
Protection class	II



Inductive sensor

IB-2020-FRKG/US-104-IRF

Reverse polarity protection	yes
Outputs	
Electrical design	PNP/NPN
Output function	normally open / 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
Monitoring range	
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 / aluminum: 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	tubular
Mounting	non-flush mountable
Dimensions [mm]	Ø 34 / L = 95
Material	housing: PBT; sensing face: PBT orange; clamp: PBT black
Displays / operating elements	
Display	Switching status 4 x 90° LED, yellow
Accessories	
Items supplied	Mounting clamp: 1
Remarks	
Pack quantity	1 pcs.

IB5169



Inductive sensor

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Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: brass, weld coated; Contacts: gold-plated

