

IB500A



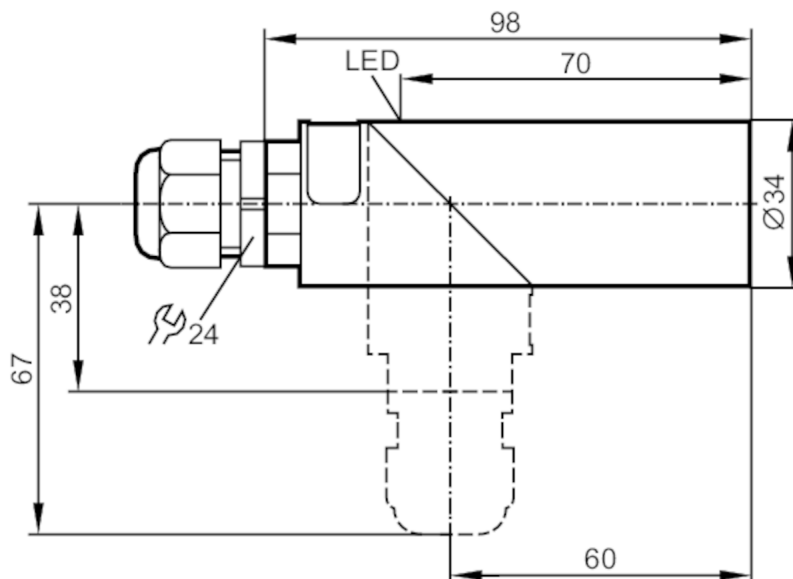
Inductive sensor

IBE3020-FPKG/3D

Article no longer available - archive entry

Alternative articles: IM506A

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	20
Housing	cylindrical
Dimensions [mm]	Ø 34 / L = 98

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Short-time current rating of switching output [mA]	250
Switching frequency DC [Hz]	350

IB500A



Inductive sensor

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Short-circuit protection	yes
Type of short-circuit protection	pulsed
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: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch point drift [% of Sr]	-10...10
Operating conditions	
Ambient temperature [°C]	-20...60
Note on ambient temperature	when used outside the hazardous area: -25...80 °C
Protection	IP 54; (when used outside the hazardous area: IP 65)
Tests / approvals	
ATEX marking	II 3D Ex tD A22 IP54 T80°C X
EMC	EN 60947-5-2
Mechanical data	
Weight [g]	0.212
Housing	cylindrical
Mounting	non-flush mountable
Dimensions [mm]	Ø 34 / L = 98
Materials	PBT; end cap: PC
Tightening torque for cable gland [Nm]	3.5
Displays / operating elements	
Display	switching status 1 x LED, yellow
Accessories	
Items supplied	Mounting clamps: 1
Remarks	
Pack quantity	1 pcs.

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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 5.5...13 mm

Connection

