

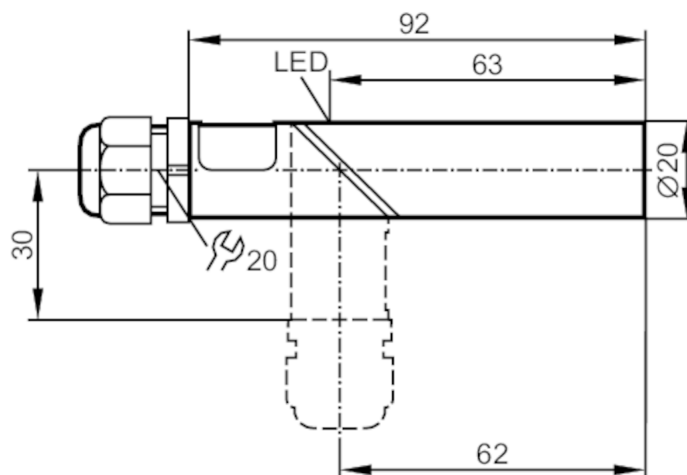
IA501A



Inductive sensor

IAE3010-BPKG/3D

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Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Housing	tubular
Dimensions [mm]	Ø 20 / L = 92

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
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]	300
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 10 %

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Operating distance	[mm]	0...8.1
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Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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 T95°C X
EMC		EN 60947-5-2

Mechanical data

Weight	[g]	0.105
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 20 / L = 92
Material		PBT; LED window: PC
Tightening torque for cable gland	[Nm]	3

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied		Mounting clamp: 1
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Remarks

Pack quantity		1 pcs.
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Electrical connection

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

Connection

