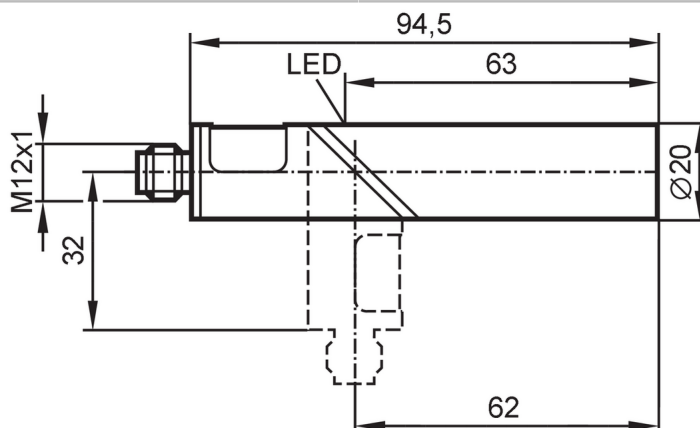


IA5106



Inductive sensor

IAE3010-BPKG/US-100-DPS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Housing	tubular
Dimensions [mm]	Ø 20 / L = 94.5

Application

Application	Industrial applications
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Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	III
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
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 %
Operating distance [mm]	0...8.1

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
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IA5106



Inductive sensor

IAE3010-BPKG/US-100-DPS

Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1147

Mechanical data		
Weight	[g]	82.3
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 20 / L = 94.5
Material		housing: PBT; LED window: PC

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories		
Items supplied		Mounting clamp: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4



Connection

