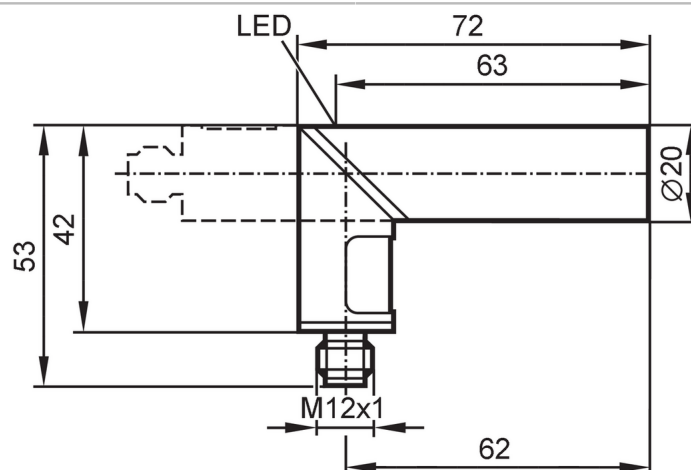


IA5136



Inductive sensor

IAE3010-APKG/US-100/ANGLED



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	10
Housing	tubular
Dimensions [mm]	Ø 20 / L = 72

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 closed
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

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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]	-25...80
Protection		IP 65	
Tests / approvals			
EMC		EN 61000-4-2 ESD	- CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
		EN 61000-4-6 HF conducted	3 V
		EN 55011	class B
MTTF	[years]	1076	
Mechanical data			
Weight		[g]	99
Housing		tubular	
Mounting		non-flush mountable	
Dimensions		[mm]	Ø 20 / L = 72
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			
			

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Connection

