



Inductive sensor

IAE3010-APKG



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 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		pulsed
Overload protection		yes

Detection zone

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: 0.4 / aluminium: 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



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Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1076	
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Unlimited Voltage
	File number UL	E174191

Mechanical data		
Weight [g]	85.8	
Housing	cylindrical	
Mounting	non-flush mountable	
Dimensions [mm]	Ø 20 / L = 92	
Materials	PBT; LED window: PC	

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

Accessories		
Accessories (supplied)	Mounting clamps: 1	

Remarks		
Pack quantity	1 pcs.	

Electrical connection		
terminals: ...2.5 mm ² ; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5		

Connection

