



Inductive sensor

IAE2010-FBOA/RT

Article no longer available - archive entry



Product characteristics

Output function		normally open / closed; (selectable)
Sensing range	[mm]	10
Housing		tubular
Dimensions	[mm]	Ø 20 / L = 92

Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no

Outputs

Output function		normally open / closed; (selectable)
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	70
Short-circuit proof		no
Overload protection		no

Monitoring range

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



Inductive sensor

IAE2010-FBOA/RT

Operating distance	[mm]	0...8.1
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 60947-5-2	
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Hazardous voltage
	File number UL	E174191
Mechanical data		
Weight	[g]	87
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 20 / L = 92
Material		PBT; LED window: PC
Displays / operating elements		
Display	Switching status	1 x LED, red
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
Accessories		
Items supplied		Mounting clamp: 1
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.



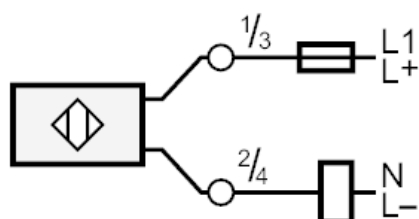
Inductive sensor

IAE2010-FBOA/RT

Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 4.5...10 mm

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting