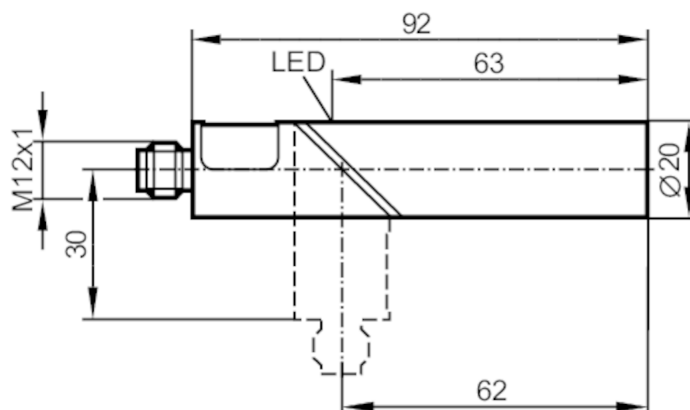




Inductive sensor

IAE2010-FRKG/US-100-IRF



Electrical data

Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	5
Max. leakage current	[mA]	1
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	450
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	10
Real sensing range S_r	[mm]	$10 \pm 10 \%$
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 S_r]	1...15
Switch point drift	[% of S_r]	-10...10

Operating conditions

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

IA5135



Inductive sensor

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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1759
Mechanical data		
Weight	[g]	92.4
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 - plug		

Connector: 1 x M12



normally open

