

Inductive sensor

IIA2010SFROG/ 6m

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Product characteristics

Electrical design	PNP; (self-monitoring system)
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	10
Housing	threaded type
Dimensions [mm]	M30 x 1.5

Electrical data

Connection to switching amplifiers	yes
Switching amplifiers	connection to F400 control monitor or as 2-wire DC DNP
Operating voltage [V]	10...36 DC
Reverse polarity protection	no

Outputs

Electrical design	PNP; (self-monitoring system)
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	6.5
Minimum load current [mA]	5
Max. leakage current [mA]	1.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	30
Short-circuit protection	no



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Overload protection		no	
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 67	
Tests / approvals			
EMC	IEC 801-2		level 4
	IEC 801-3		level 3
	IEC 801-4		level 4
	IEC 801-5		level 2
Mechanical data			
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M30 x 1.5	
Thread designation		M30 x 1.5	
Materials		brass nickel-plated; PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	



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Electrical connection

Cable: 6 m, PVC; 3 x 0.5 mm²

Connection



- 1 = connection to F400
 2 = Connection 2-wire DC
 3 = Connection 2-wire DC
 Core colours :
 BK = black
 BN = brown
 BU = blue