

Inductive sensor

II-2010-FRKG/PH



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	10
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 81

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]	4
Max. leakage current [mA]	0.5
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

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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		EN 60947-5-2		
		EN 55011		class B
MTTF		[years]	1699	
Mechanical data				
Weight		[g]	174.5	
Housing			threaded type	
Mounting			flush mountable	
Dimensions		[mm]	M30 x 1.5 / L = 81	
Thread designation			M30 x 1.5	
Materials			PBT	
Displays / operating elements				
Display			switching status	1 x LED, yellow
Accessories				
Accessories (supplied)			lock nuts: 2	
Remarks				
Pack quantity			1 pcs.	



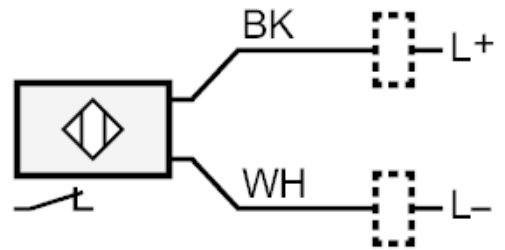
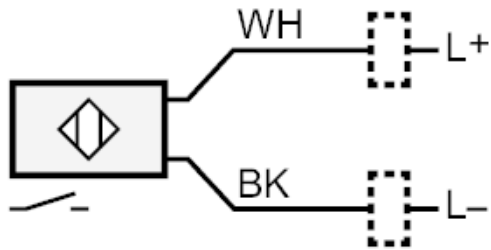
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Electrical connection

Cable: 2 m, PUR / PVC; 2 x 0.5 mm²

Connection



Core colours :

BK = black
WH = white