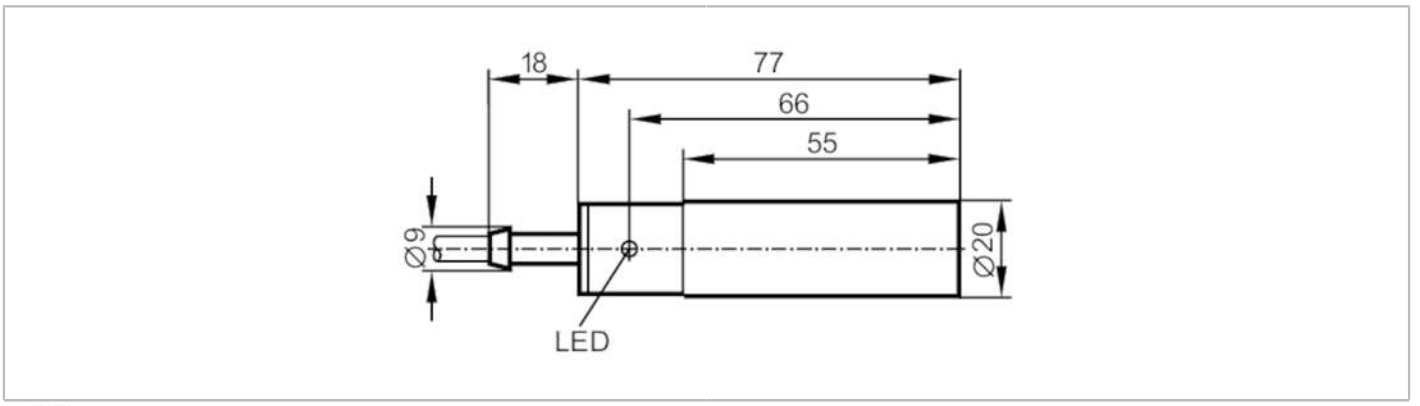
IA5110

Inductive sensor

IA-2010-FRKG/6M/PH



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	10
Housing		cylindrical
Dimensions	[mm]	Ø 20 / L = 77
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]	1
Permanent current rating of switching output DC	[mA]	400
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

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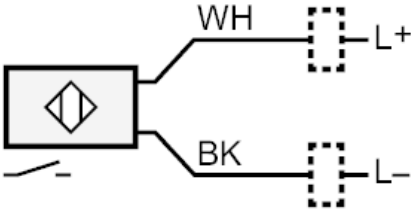
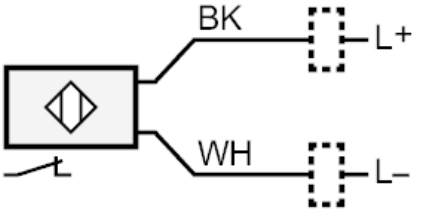
Operating conditions		
Ambient temperature [°C]	-25...80	
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1806	
Mechanical data		
Weight [g]	327	
Housing	cylindrical	
Mounting	non-flush mountable	
Dimensions [mm]	Ø 20 / L = 77	
Materials	PBT	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied	Mounting clamps: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		

Cable: 6 m, PUR / PVC; 2 x 0.5 mm²

Connection





Core colours :
BK = black
WH = white