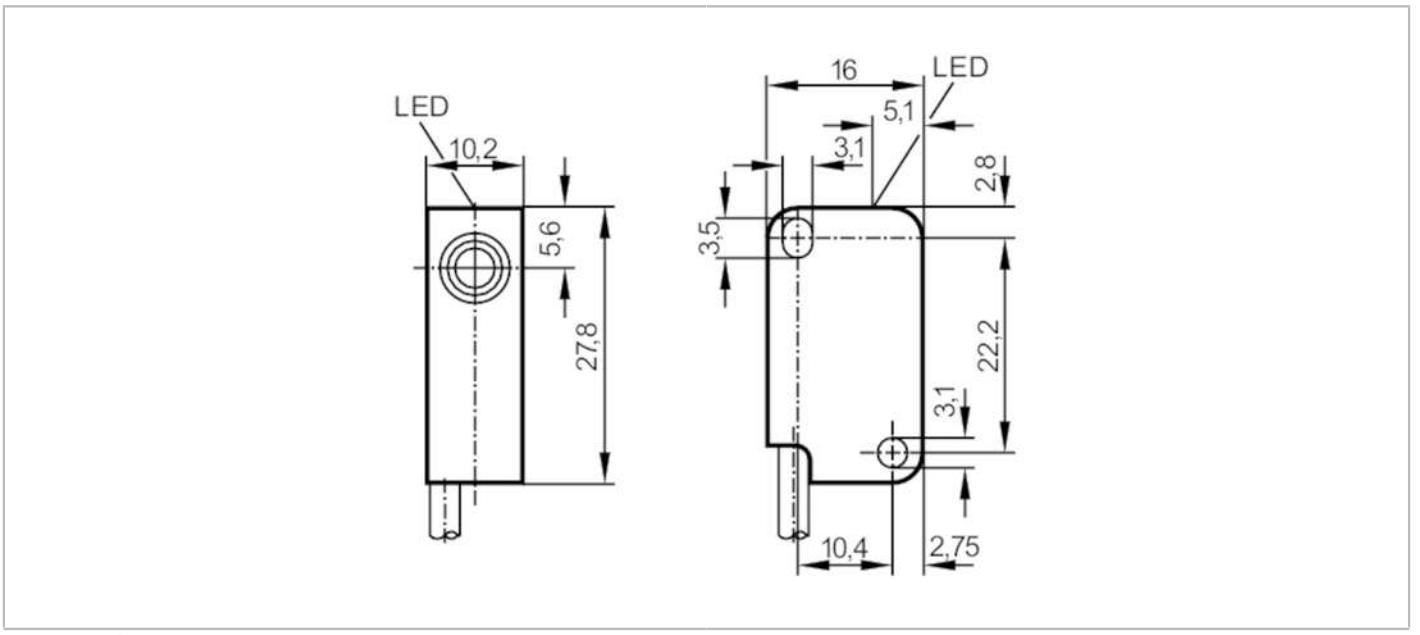
IS5077

Inductive sensor

IS-2003-FRKG/0,3M/PH



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (parameterisable)
Sensing range	[mm]	3
Housing		rectangular
Dimensions	[mm]	28 x 10 x 16
Application		
Special feature		Increased sensing range
Electrical data		
Operating voltage	[V]	5...36 DC
Current consumption	[mA]	< 15
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	4.6
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	500
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	3
Real sensing range Sr	[mm]	3 ± 10 %

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Operating distance	[mm]	0...2.4	
Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
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 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		EN 55011	class B
MTTF	[years]	2470	
UL approval		Ta	-25...75 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		File number UL	E174191
Mechanical data			
Weight	[g]	14.9	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	28 x 10 x 16	
Materials		PBT	
Tightening torque	[Nm]	< 0.5; (with washer)	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Pack quantity		1 pcs.	

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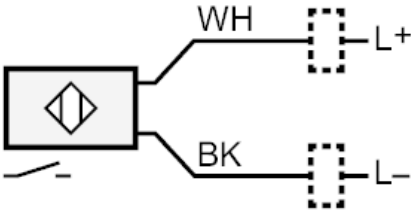
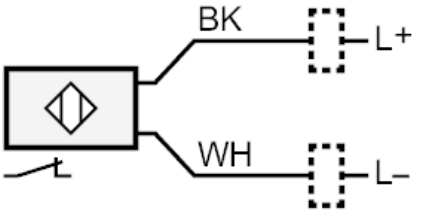
Electrical connection

Cable: 0.3 m, PUR / PVC; 2 x 0.14 mm²

Connection





	Core colours :
BK =	black
WH =	white