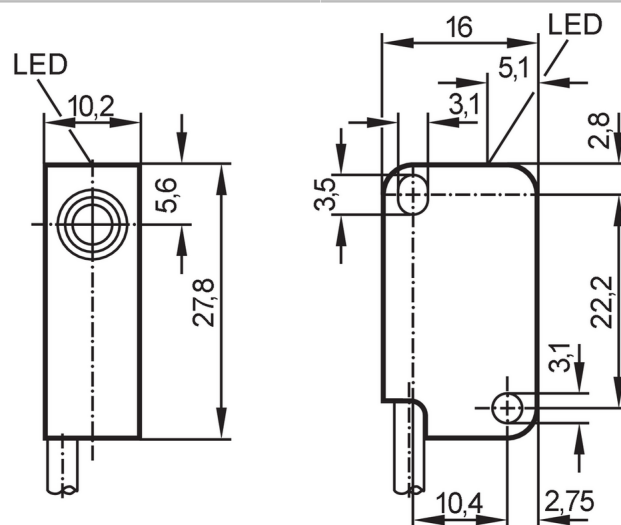


IS5077



Inductive sensor

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



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
Sensing range [mm]	3
Housing	rectangular
Dimensions [mm]	27.8 x 10.2 x 16

Application

Special feature	Increased sensing range
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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 / closed; (configurable)
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

Monitoring range

Sensing range [mm]	3
Real sensing range S_r [mm]	$3 \pm 10\%$
Operating distance [mm]	0...2.4
Increased sensing range	yes

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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	14.9
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	27.8 x 10.2 x 16
Material		housing: 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



BK = Core colors :
WH = black
white