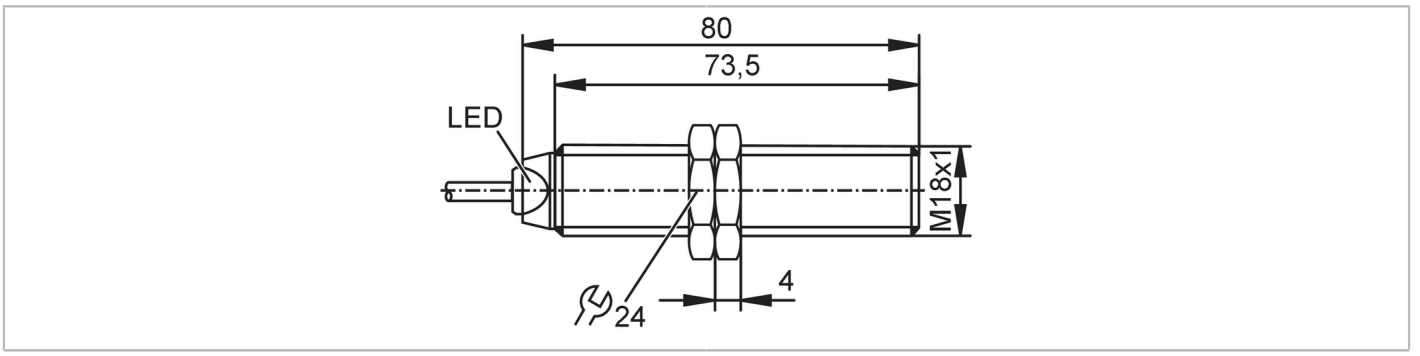
IG5593

Inductive sensor

IG-2005-FRKG/PH



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	5
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 80
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]	0.8
Permanent current rating of switching output DC	[mA]	400
Switching frequency DC	[Hz]	700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	5
Real sensing range Sr	[mm]	5 ± 10 %
Operating distance	[mm]	0...4.05
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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Inductive sensor

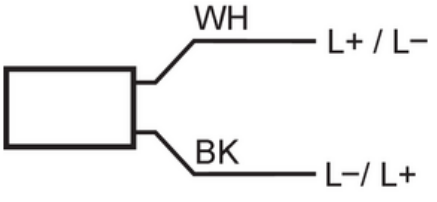
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Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD	8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 55011 emission	class B
MTTF	[years]	1835	
Mechanical data			
Weight	[g]	110.8	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M18 x 1 / L = 80	
Thread designation		M18 x 1	
Materials		housing: PBT orange; lock nuts: PA 6.6 black	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

Electrical connection

Cable: 2 m, PUR / PVC; 2 x 0.5 mm²

Connection



	Core colours :	
BK =	black	
WH =	white	
PNP / NO		
WH	L+	
BK	L-	DO (NO) (PNP)
PNP / NC		
WH	L-	DO (NC) (PNP)
BK	L+	
NPN / NO		
WH	L+	DO (NO) (NPN)
BK	L-	

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Inductive sensor

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NPN / NC

WH	L-	
BK	L+	DO (NC) (NPN)

DO: digital output; NC: normally closed; NO: normally open