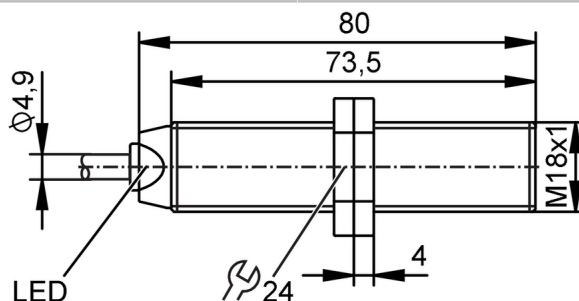


IG5778



Inductive sensor

IGA2005-FRKG/PH



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / 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 / 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	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	5
Real sensing range Sr [mm]	$5 \pm 10\%$
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
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IG5778



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Protection	IP 67
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Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 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	class B
MTTF [years]	1835	
CSA approval	Ta	-25...80 °C
	Classification	Class I; Div. 2; Groups A, B, C, D; T4
		Class II; Div. 2; Groups F, G; T135 °C
		Class III

Mechanical data

Weight [g]	149.3
Housing	Threaded type
Mounting	flush mountable
Dimensions [mm]	M18 x 1 / L = 80
Thread designation	M18 x 1
Material	housing: brass white bronze coated; sensing face: PBT orange; end cap: PC; lock nuts: brass white bronze coated

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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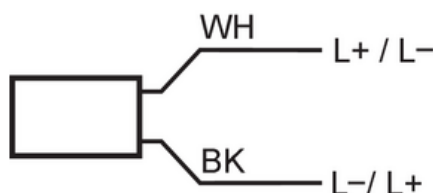
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PUR / PVC; 2 x 0.5 mm²

Connection



Core colors :
BK = black
WH = white

Electrical connection - plug

PNP / NO

WH	L+	DO (NO) (PNP)
BK	L-	

PNP / NC

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

IG5778



Inductive sensor

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NPN / NO		
WH	L+	DO (NO) (NPN)
BK	L-	
NPN / NC		
WH	L-	
BK	L+	DO (NC) (NPN)
DO: digital output; NC: normally closed; NO: normally open		