



Inductive sensor

IYB30,8-ANKG/V2A



Product characteristics

Electrical design	NPN
Output function	normally open
Sensing range [mm]	0.8
Housing	threaded type
Dimensions [mm]	M5 x 0.5 / L = 30

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	0.8
Real sensing range Sr [mm]	$0.8 \pm 10\%$
Operating distance [mm]	0...0.65

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

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Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 65
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]	2162
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	43.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M5 x 0.5 / L = 30
Thread designation		M5 x 0.5
Materials		stainless steel (303/1.4305); sensing face: POM
Tightening torque	[Nm]	2
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

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Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection



BN =	Core colours :
BU =	brown
BK =	blue
	black