

IN511A



Inductive sensor

IN-3004-BPKG/10M/3D



- 1 fixing hole
2 threaded bush M3 Depth 5.8 mm



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	4
Housing	rectangular
Dimensions [mm]	40 x 12 x 26

Electrical data

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

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	1300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	4
Real sensing range Sr [mm]	$4 \pm 10 \%$
Operating distance [mm]	0...3.24

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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
Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 67
Tests / approvals		
ATEX marking	 II 3D Ex tc IIIC T85°C Dc U	
EMC	EN 60947-5-2	
MTTF	[years]	1915
Mechanical data		
Weight	[g]	505.5
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 12 x 26
Materials		PBT
Fixing hole		
Tightening torque	[Nm]	< 0.5
Threaded bush		
Tightening torque	[Nm]	< 1.2; (when brass insert in contact with counterpart)
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Remarks	The sensor is a component for use in switch boxes suitable for hazardous areas.	
Pack quantity		1 pcs.

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Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm²

Connection



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