



Inductive sensor

INS3002DBPKG/US-100-YPS/S6A/12



1 Sensing face



Product characteristics

Electrical design	PNP
Output function	2 x normally open
Sensing range [mm]	2
Housing	rectangular

Application

Special feature	Magnetic-field immune
Magnetic-field immune	yes

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	2 x normally open
Max. voltage drop switching output DC [V]	2

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Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	25
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62

Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.85 / aluminium: 0.4 / copper: 0.3
Switch point drift	[% of Sr]	-10...10

Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 67

Tests / approvals		
EMC	IEC61000	

Mechanical data		
Weight	[g]	58.5
Housing		rectangular
Mounting		non-flush mountable
Materials		housing: ABS
Length L	[mm]	120

Displays / operating elements		
Display	switching status	1 x LED, yellow sensor 1
	switching status	1 x LED, red sensor 2
	operation	LED, green

Remarks		
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



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Connection

