

ID5023



Inductive sensor

IDE3060-FNKG



Product characteristics		
Electrical design		NPN
Output function		normally open / closed; (selectable)
Sensing range	[mm]	60
Housing		rectangular
Dimensions	[mm]	105 x 80 x 40
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		NPN
Output function		normally open / closed; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	4
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Sensing range	[mm]	60



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Sensing range adjustable	yes
Factory setting sensing range [mm]	60
Real sensing range Sr [mm]	60 ± 10 %
Operating distance [mm]	0...48.6

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
Protection	IP 65

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	963	

Mechanical data

Weight [g]	435
Housing	rectangular
Mounting	non-flush mountable
Dimensions [mm]	105 x 80 x 40
Material	PPE modified

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	screwdriver: 1
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Remarks

Pack quantity	1 pcs.
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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection

