

Inductive sensor

IIK3010UBPKG/SC/US-104-DPS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 60

Application

System	Magnetic-field immune
Magnetic-field immune	yes

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]	250
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	10
Real sensing range S_r [mm]	$10 \pm 10 \%$
Operating distance [mm]	0...8.1



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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...70	
Protection		IP 67		
Tests / approvals				
EMC		EN 60947-5-2		
		EN 55011	class B	
MTTF		[years]	1434	
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		voltage supply		Hazardous voltage
		File number UL		E174191
Mechanical data				
Weight		[g]	219	
Housing		Threaded type		
Mounting		flush mountable		
Dimensions		[mm]	M30 x 1.5 / L = 60	
Thread designation		M30 x 1.5		
Material		brass PTFE coated; sensing face: PTFE		
Displays / operating elements				
Display		Switching status	1 x LED, yellow	
Accessories				
Items supplied		lock nuts: 2		
Remarks				
Pack quantity		1 pcs.		
Electrical connection - plug				
Connector: 1 x M12; coding: A				
				



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Connection

