



Inductive sensor

IIK3010-BPKG/US-104



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		
Special feature		Gold-plated contacts
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10
Protection class		II
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]	200
Short-time current rating of switching output	[mA]	200
Switching frequency DC	[Hz]	400
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	10
Real sensing range Sr	[mm]	10 ± 10 %
Operating distance	[mm]	0...8.1



Inductive sensor

IIK3010-BPKG/US-104

Accuracy / deviations				
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3		
Hysteresis	[% of Sr]	3...15		
Switch point drift	[% of Sr]	-10...10		
Operating conditions				
Ambient temperature		[°C]	-25...80	
Protection			IP 67	
Tests / approvals				
EMC		EN 60947-5-2		
		EN 55011	class B	
MTTF		[years]	1083	
Embedded software included			yes	
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		power supply		Hazardous voltage
		UL Approval no.		A004
		File number UL		E174191
Mechanical data				
Weight		[g]	115.8	
Housing			threaded type	
Mounting			flush mountable	
Dimensions		[mm]	M30 x 1.5 / L = 60	
Thread designation			M30 x 1.5	
Materials			brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated	
Displays / operating elements				
Display		switching status	4 x 90° LED, yellow	
Accessories				
Items supplied			lock nuts: 2	
Remarks				
Pack quantity			1 pcs.	
Electrical connection - plug				
Connector: 1 x M12; coding: A; Contacts: gold-plated				
				



Inductive sensor

IIK3010-BPKG/US-104

Connection

