



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

System	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

Monitoring range

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 / aluminum: 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			no	
UL approval		Ta		0...40 °C
		Enclosure type		Type 1
		voltage supply		Hazardous voltage
		UL approval number		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	
Material			housing: 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				
				

II5851



Inductive sensor

IIK3010-BPKG/US-104

Connection

