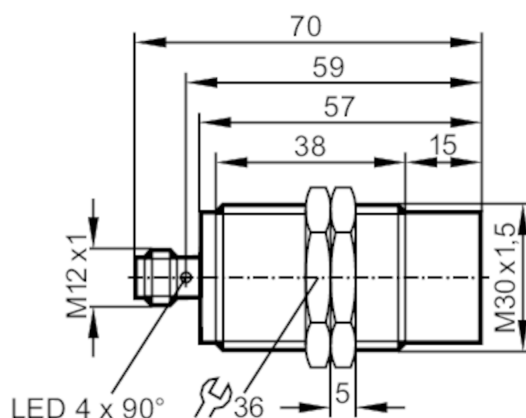


Inductive AS-Interface sensor

IIK2015-ASI /M/US-104

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Product characteristics

Electrical design		AS-i
Sensing range	[mm]	15
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 70

Application

Special feature		Gold-plated contacts
Application		Industrial applications / factory automation

Electrical data

Operating voltage	[V]	26.5...31.6 DC
Current consumption	[mA]	< 35
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		AS-i
Switching frequency DC	[Hz]	100

Detection zone

Sensing range	[mm]	15
Real sensing range Sr	[mm]	15 ± 10 %
Operating distance	[mm]	0...12.1

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

Operating conditions

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



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Tests / approvals					
EMC	EN 61000-4-2 ESD		4 kV / 8 kV		
	EN 61000-4-3 HF radiated		10 V/m		
	EN 61000-4-4 Burst		2 kV		
	EN 61000-4-6 HF conducted		10 V		
	EN 55011 emission		class B		
AS-i classification					
AS-i version		3.0			
Extended addressing mode		yes			
AS-i I/O configuration [hex]		0			
AS-i ID code [hex]		A.E			
Assignment of the data bits	Designation	switching signal	unsafe zone	readiness for operation	not used
	status = 0	target outside the active zone, yellow LED off	target within the uncertain zone, red LED flashes	unit faulty or distance to medium < 10 %, red LED flashes	-
	status = 1	target within the active zone, yellow LED on	target outside the uncertain zone, red LED off	readiness for operation, red LED off	default value
Mechanical data					
Weight [g]		0.125			
Housing		threaded type			
Mounting		non-flush mountable			
Dimensions [mm]		M30 x 1.5 / L = 70			
Thread designation		M30 x 1.5			
Materials		threaded sleeve: stainless steel; sensing face: PBT; lock nuts: brass			
Displays / operating elements					
Display	switching status		1 x LED, yellow		
	error		1 x LED, red lights AS-i communication		
	unsafe zone		1 x LED, red flashing sensor coil wire break, sensor coil short circuit		
Accessories					
Items supplied		lock nuts: 2			
Remarks					
Pack quantity		1 pcs.			
Electrical connection - plug					
Connector: 1 x M12; coding: A; Contacts: gold-plated					
					



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Connection

