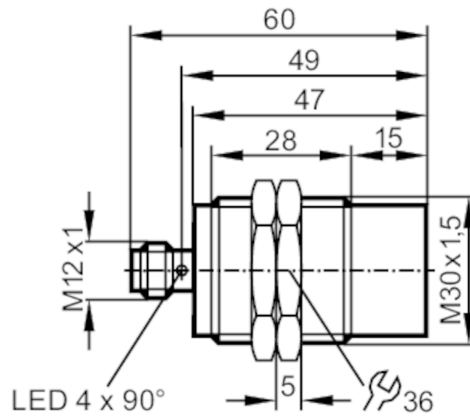


Inductive AS-Interface sensor

IIC2022-ASI / M/US-104



Product characteristics

Electrical design		AS-i
Sensing range	[mm]	22
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 60

Application

Special feature		Gold-plated contacts
Application		Use in machine tools, coolants and lubricants

Electrical data

Operating voltage	[V]	26.5...31.6 DC
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	1000

Outputs

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

Detection zone

Sensing range	[mm]	22
Real sensing range Sr	[mm]	22 ± 10 %
Operating distance	[mm]	0...17.82

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.45 / copper: 0.35
Hysteresis	[% of Sr]	1...20
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 68; ("Coolant")



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Tests / approvals					
EMC	EN 61000-4-2 ESD		4 kV CD / 8 kV AD		
	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		class B		
AS-i classification					
AS-i version		3.0			
Extended addressing mode		yes			
AS-i profile		S-0.A.E			
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]		113.5			
Housing		threaded type			
Mounting		non-flush mountable			
Dimensions [mm]		M30 x 1.5 / L = 60			
Thread designation		M30 x 1.5			
Materials		stainless steel (1.4404 / 316L); sensing face: LCP uncoloured			
Displays / operating elements					
Display	switching status		4 x 90° LED, yellow		
	function		1 x LED, red		
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

