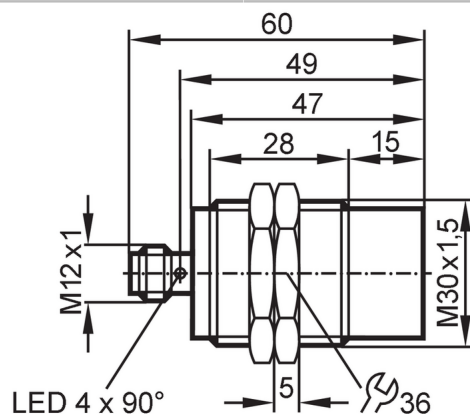


Inductive AS-Interface sensor

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	Industrial applications / factory automation; 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			
MTTF	[years]	1390				
UL approval	Ta		-25...70 °C			
	Enclosure type		Type 1			
	voltage supply		Limited Voltage/Current			
	File number UL		E174191			
AS-i classification						
AS-i version		2.1				
Extended addressing mode		yes				
AS-i I/O configuration		0				
AS-i ID code		A.F				
AS-i certificate		57501				
Assignment of the data bits		Designation	switching signal	not used	not used	not used
		status = 0	target outside the active zone	-	-	-
		status = 1	target within the active zone	default value	default value	default value
Mechanical data						
Weight		[g] 114				
Housing		threaded type				
Mounting		non-flush mountable				
Dimensions		[mm] M30 x 1.5 / L = 60				
Thread designation		M30 x 1.5				
Materials		stainless steel (316L/1.4404); 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: 4, gold-plated						
						



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Connection

