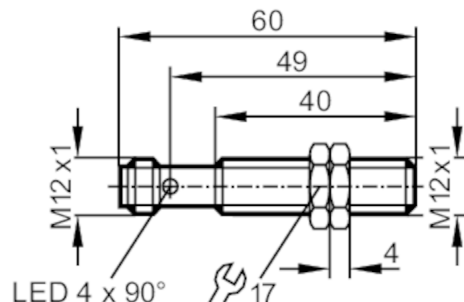




Inductive AS-Interface sensor

IFK2004BASI /M/US-104



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]	4
Operating distance	[mm]	0...3.25

Accuracy / deviations

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

Operating conditions

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

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]	1679	
UL approval	Ta		-25...70 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	File number UL		E174191



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AS-i classification					
AS-i version		2.1			
Extended addressing mode possible		yes			
AS-i I/O configuration [hex]		0			
AS-i ID code [hex]		A.F			
AS-i certificate		57001			
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]		27.4			
Housing		threaded type			
Mounting		flush mountable			
Dimensions [mm]		M12 x 1 / L = 60			
Thread designation		M12 x 1			
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					
Accessories (supplied)		lock nuts: 2			
Remarks					
Pack quantity		1 pcs.			
Electrical connection - plug					
Connector: 1 x M12; Contacts: gold-plated					
					

IFC247



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Connection

