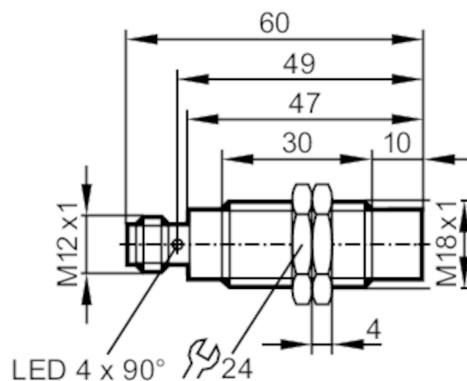


Inductive AS-Interface sensor

IGK2012-ASI / 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]	12
Real sensing range Sr	[mm]	12 ± 10 %
Operating distance	[mm]	0...9.7

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]	1484				
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 possible		yes				
AS-i I/O configuration		[hex]	0			
AS-i ID code		[hex]	A.F			
AS-i certificate		57301				
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]	49			
Housing		threaded type				
Mounting		non-flush mountable				
Dimensions		[mm]	M18 x 1 / L = 60			
Thread designation		M18 x 1				
Materials		threaded sleeve: stainless steel (1.4404 / 316L); sensing face: LCP uncoloured; lock nuts: brass				
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						

IGC235



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Connection

