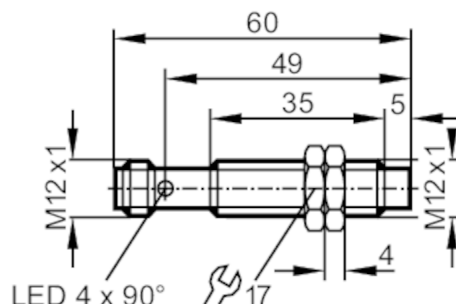




Inductive AS-Interface sensor

IFK2007-ASI / M/US-104



Product characteristics

Electrical design	AS-i
Sensing range [mm]	7
Housing	threaded type
Dimensions [mm]	M12 x 1 / 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]	7
Real sensing range S_r [mm]	$7 \pm 10 \%$
Operating distance [mm]	0...5.7

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis [% of S_r]	1...20
Switch point drift [% of S_r]	-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]	1696			
UL approval	Ta		-25...70 °C		
	Enclosure type		Type 1		
	power 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		[hex] 0			
AS-i ID code		[hex] A.F			
AS-i certificate		57101			
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] 32.8			
Housing		threaded type			
Mounting		non-flush mountable			
Dimensions		[mm] M12 x 1 / L = 60			
Thread designation		M12 x 1			
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: gold-plated					
					

IFC248



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Connection

