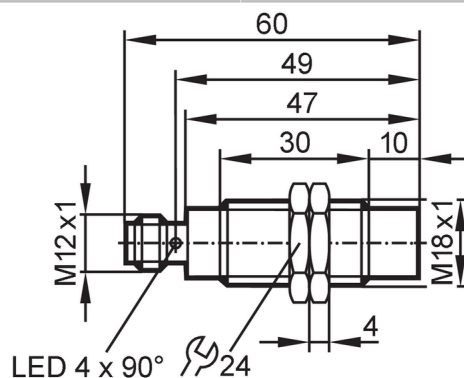


Inductive AS-Interface sensor

IGK2012-ASI / M/US-104



Product characteristics

Electrical design	AS-i
Sensing range [mm]	12
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 60

Application

Special feature	gold-plated contacts
Application	Industrial applications; Oils and coolants

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

Monitoring range

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 / aluminum: 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]	1565			
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		[hex]	0		
AS-i ID code		[hex]	A.F		
AS-i certificate		57301			
Data bits	Description	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]	46.4		
Housing		Threaded type			
Mounting		non-flush mountable			
Dimensions		[mm]	M18 x 1 / L = 60		
Thread designation		M18 x 1			
Material		threaded sleeve: stainless steel (1.4404 / 316L); sensing face: LCP uncolored; lock nuts: brass			
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

