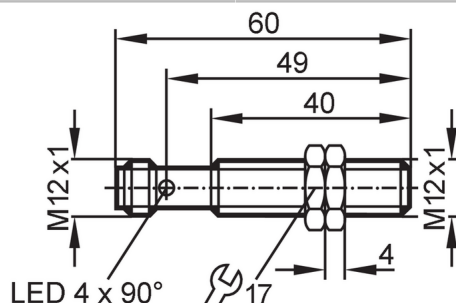


IFC247



Inductive AS-Interface sensor

IFK2004BASI /M/US-104



Product characteristics

Electrical design	AS-i
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 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]	4
Operating distance [mm]	0...3.25

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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]	1574	



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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	57001				
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]	28				
Housing	Threaded type				
Mounting	flush mountable				
Dimensions [mm]	M12 x 1 / L = 60				
Thread designation	M12 x 1				
Material	stainless steel (1.4404 / 316L); sensing face: LCP uncolored				

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
	Function	1 x LED, red

Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



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Connection

