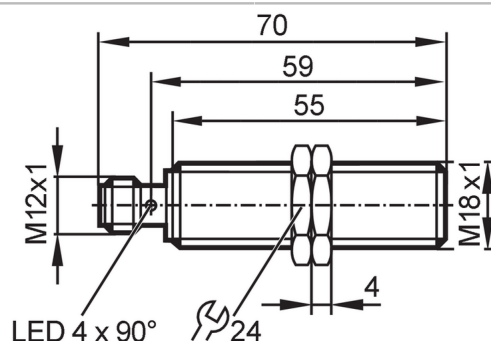




Inductive full-metal sensor

IGK34,5-APKG/AM/US-104/K0



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	4.5
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 70

Application

Special feature	gold-plated contacts; Full-metal housing; correction factor = 0	
Application	Oils and coolants; Ferrous only; aluminum chip immune	
Pressure rating	100 bar	10 MPa
Note on pressure rating	sensing face	

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	4.5
Operating distance [mm]	0...3.64

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.5
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IGC250



Inductive full-metal sensor

IGK34,5-APKG/AM/US-104/K0

Hysteresis	[% of Sr]	1...20
Correction factor = 0		yes

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
Impact resistance	EN 60068-2-27 Ehc	1 J
MTTF	[years]	1258
Embedded software included		yes
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A012
	File number UL	E174191

Mechanical data

Weight	[g]	55.3
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 70
Thread designation		M18 x 1
Material		housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)
Tightening torque	[Nm]	50
Full-metal housing		yes

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
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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: 3, gold-plated



IGC250



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Connection

