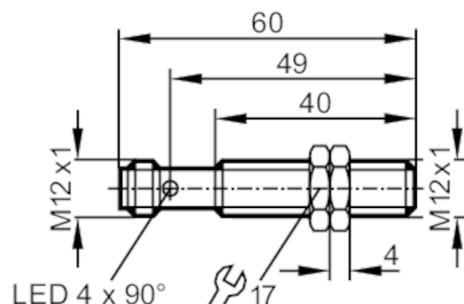




Inductive full-metal sensor

IFK32,5BAPKG/AM/US-104/K0



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	2.5
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

System	gold-plated contacts; Increased sensing range; Full-metal housing; correction factor = 0
Application	Oils and coolants
Media	Ferrous only; aluminum chip immune
Pressure rating [bar]	100
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]	2.5
Operating distance [mm]	0...2.02



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Increased sensing range	yes
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Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.5
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Correction factor = 0	yes
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Operating conditions

Ambient temperature	[°C]	-25...70
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Protection	IP 68; ("Coolant")
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Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
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	EN 61000-4-3 HF radiated	10 V/m
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	EN 61000-4-4 Burst	2 kV
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	EN 61000-4-6 HF conducted	10 V
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	EN 55011	class B
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Impact resistance		1 J
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MTTF	[years]	1258
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Embedded software included	yes
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UL approval	Ta	-25...70 °C
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	Enclosure type	Type 1
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	voltage supply	Limited Voltage/Current
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	UL approval number	A012
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	File number UL	E174191
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Mechanical data

Weight	[g]	28
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Housing	Threaded type
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Mounting	flush mountable
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Dimensions	[mm]	M12 x 1 / L = 60
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Thread designation	M12 x 1
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Material	housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: brass white bronze coated
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Tightening torque	[Nm]	15
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Full-metal housing	yes
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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



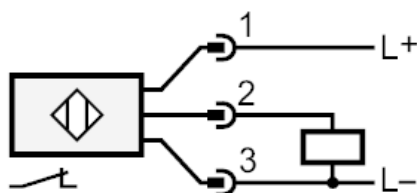
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Inductive full-metal sensor

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Connection



Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated