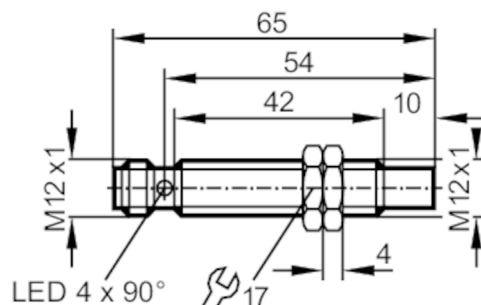




Inductive sensor

IFK3008-BPKG/M/K1/SC/US104-DPS



Application

Magnetic-field immune	yes
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Electrical data

Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes

Outputs

Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	8
Real sensing range S_r	[mm]	$8 \pm 10\%$
Operating distance	[mm]	0...6.5
Increased sensing range		yes

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1
Hysteresis	[% of S_r]	3...15
Switch point drift	[% of S_r]	-10...10
Correction factor $K = 1$		yes

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 67



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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]	1975	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL Approval no.	A005
		File number UL	E174191

Mechanical data

Weight	[g]	35
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M12 x 1 / L = 65
Thread designation		M12 x 1
Materials		housing: brass anti-spatter; sensing face: Duroplast (PF)

Displays / operating elements

Display	switching status	4 x 90° LED, yellow
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated





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Connection

