



Inductive full-metal sensor

IFK32,5BBPKG/AM/US-104-DPS/K0



Application

Media	ferrous only; aluminium chip immune
Pressure rating [bar]	100
Note on pressure rating	sensing face

Electrical data

Operating voltage [V]	10...36 DC; ("supply class 2" to cULus)
Current consumption [mA]	< 20
Protection class	III
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]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	2.5
Operating distance [mm]	0...2.02
Increased sensing range	yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.5
Hysteresis [% of Sr]	1...20
Correction factor K = 0	yes

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]	1635
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	28.1
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Materials		housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); plug: PA; lock nuts: stainless steel (1.4404 / 316L)
Full-metal housing		yes
Displays / operating elements		
Display	switching status	4 x 90° LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; Contacts: gold-plated		
		

IFC263

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Connection

