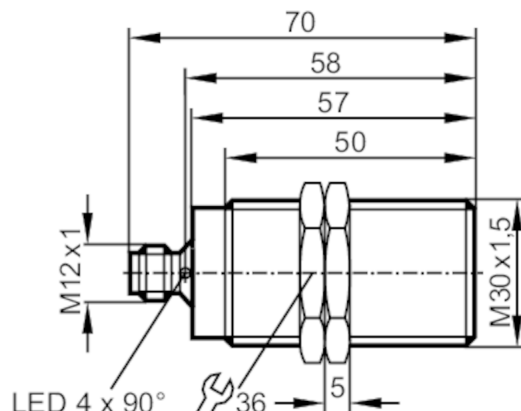




Inductive full-metal sensor

IHK3010-BPKG/AM/US-104-DPS



Application

Pressure rating	[bar]	100
Note on pressure rating		sensing face

Electrical data

Operating voltage	[V]	10...36 DC
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]	50
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	10
Operating distance	[mm]	0...8.1

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.8 / aluminium: 0.6 / copper: 0.3
Hysteresis	[% of Sr]	1...20

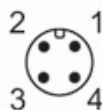
Operating conditions

Ambient temperature	[°C]	0...100
Protection		IP 68; IP 69K



Inductive full-metal sensor

IIK3010-BPKG/AM/US-104-DPS

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 emission	class B
Impact resistance	DIN EN 60068-2-75 Ehc	1 J
MTTF	[years]	1590
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	139.9
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 70
Thread designation		M30 x 1.5
Materials		housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); 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		
		



Inductive full-metal sensor

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Connection

