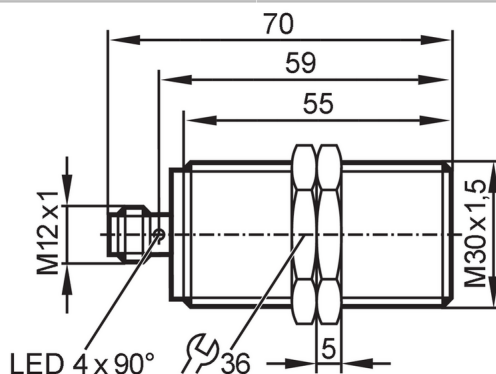




Inductive sensor

IIK014BASKG/2LED/V4A/US-104



EC 1935/2004



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	14
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 70

Application

Special feature	gold-plated contacts; Increased sensing range; optical setting aid
Application	Use in hygienic areas / regular cleaning processes

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 15
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.6
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]	14
Real sensing range Sr [mm]	14 ± 10 %
Operating distance [mm]	0...11.34



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Increased sensing range	yes
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Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
Hysteresis [% of Sr]		1...20
Switch-point drift [% of Sr]		-10...10

Operating conditions

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

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 61000-4-5 Surge	0,5 kV mains line to line
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF [years]	1058	
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A039
	File number UL	E174191

Mechanical data

Weight [g]	123
Housing	Threaded type
Mounting	flush mountable
Dimensions [mm]	M30 x 1.5 / L = 70
Thread designation	M30 x 1.5
Material	housing: stainless steel (1.4404 / 316L); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L)
Tightening torque [Nm]	80

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
	Setting aid	1 x LED, red
Optical setting aid	yes	

Accessories

Items supplied	lock nuts: 2
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Remarks

Remarks	suitable for PLC type 1 according to IEC 61131-2
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3, gold-plated



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Connection