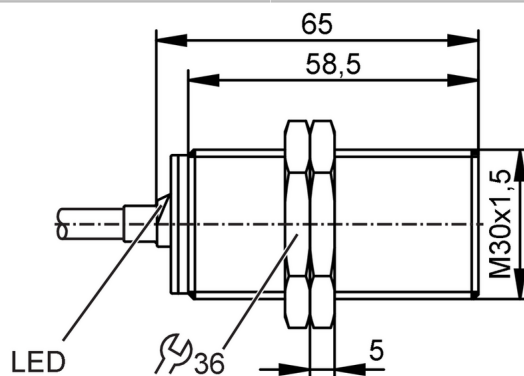


Inductive sensor

IHKC014BASKG/M/V4A/20M



1 LED



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 = 65

Application

Special feature	Increased sensing range; Optical setting aid
Application	Use in hygienic areas / regular cleaning processes

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 10; (only in 3-wire operation)
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]	0.5; (only in 2-wire operation)
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]	14
Real sensing range S_r [mm]	$14 \pm 10 \%$
Operating distance [mm]	0...11.34



Inductive sensor

IIC014BASKG/M/V4A/20M

Increased sensing range	yes
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Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis [% of Sr]	3...15	
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 line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF [years]	1479	
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191

Mechanical data

Weight [g]	787
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M30 x 1.5 / L = 65
Thread designation	M30 x 1.5
Materials	housing: stainless steel (316L/1.4404); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (316L/1.4404)

Displays / operating elements

Display	switching status	1 x LED, yellow
Optical setting aid	yes	

Accessories

Items supplied	lock nuts: 2
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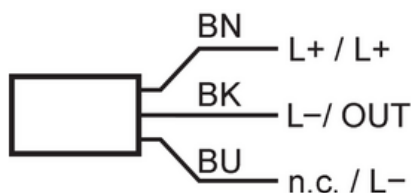
Remarks

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

Electrical connection

Cable: 20 m, PVC, Ø 4.9 mm; 3 x 0.34 mm²

Connection





Inductive sensor

IIKC014BASKG/M/V4A/20M

2-wire PNP		
BN	L+	DO (NO) (PNP)
BK	L-	
BU	n.c.	
2-wire NPN		
BN	L+	DO (NO) (NPN)
BK	L-	
BU	n.c.	
3-wire PNP		
BN	L+	DO (NO) (PNP)
BK	OUT	
BU	L-	
DO: digital output; NO: normally open		