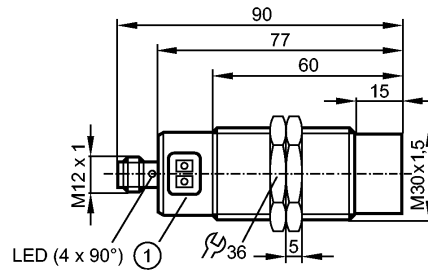


KI5087

KIA3150NFPKG/2T/US

Capacitive sensors



1: Programming buttons

Made in Germany



Product characteristics

Capacitive sensor
Metal thread M30 x 1.5
Connector
Teach function
Electronic lock
Sensing range 15 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC (60 °C) / 10...30 DC (80 °C)
Current consumption [mA]	< 20
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	10

Range

Sensing range [mm]	15
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Accuracy / deviations

Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-20...20

Interfaces

IO-Link Device	
Transfer type	COM1 (4.8 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9 CDV
IO-Link Device ID	388d / 000184h
Profiles	Smart Sensor
SIO mode	yes
Min. process cycle time [ms]	101

Environment

KI5087

KIA3150NFPKG/2T/US

Capacitive sensors

Ambient temperature	[°C]	-25...80
Protection		IP 65 / IP 67

Tests / approvals

EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted: EN 55011:	8 kV AD 10 V/m 2 kV 3 V class B
Vibration resistance	EN 60068-2-6 Fc	(10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance	EN 60068-2-27 Ea	30 g 6 shocks / 11 ms half-sine (x,y,z)
MTTF	[Years]	719

Mechanical data

Mounting	non-flush mountable	
Housing materials	housing: stainless steel 316L / 1.4404; buttons: TPE-U; cover: PBT; connector: PEI	
Weight	[kg]	0.122

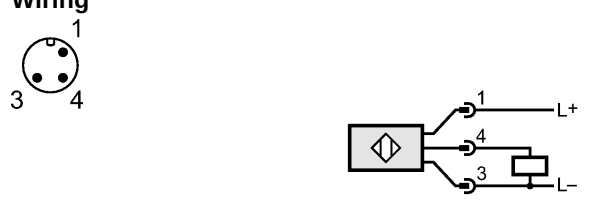
Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	M12 connector	
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Wiring



4: OUT / IO-Link

Accessories

Accessories (included)	2 lock nuts	
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Remarks

Pack quantity	[piece]	1
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