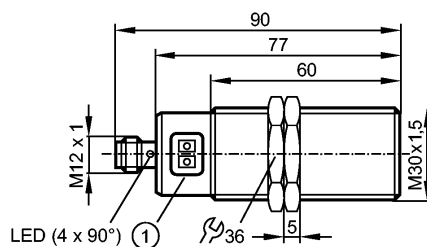


KI5084

KIA3080BFAKG/2T/US

Capacitive sensors



1: Programming buttons



Product characteristics

Capacitive sensor
Metal thread M30 x 1.5
Quick disconnect
Teach function
Electronic lock
Automatic load detection PNP/NPN
Sensing range 8 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...30 DC; 10...36 DC (60 °C)
Current consumption [mA]	< 18
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	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	10

Monitoring range

Sensing range [mm]	8
--------------------	---

Accuracy / deviations

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

Interfaces

IO-Link Device	
Transfer type	COM1 (4.8kBaud)
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

KI5084

KIA3080BFAKG/2T/US

Capacitive sensors

Environment		
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, vibration duration 5 min., 30 min. per axis with resonance or 55 Hz
Shock resistance	EN 60068-2-27 Ea	30 g 6 shocks / 11 ms half-sine (x,y,z)
MTTF	[Years]	622
Mechanical data		
Mounting		flush mountable
Housing materials		housing: stainless steel 316L / 1.4404; buttons: TPE-U; cover: PBT; connector: PEI
Weight	[kg]	0.163
Displays / operating elements		
Output status indication	LED	yellow
Electrical connection		
Connection		M12 connector
Wiring		
<p>4: OUT / IO-Link Automatic load detection PNP/NPN when using a resistive load < 20 kΩ</p>		
Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1