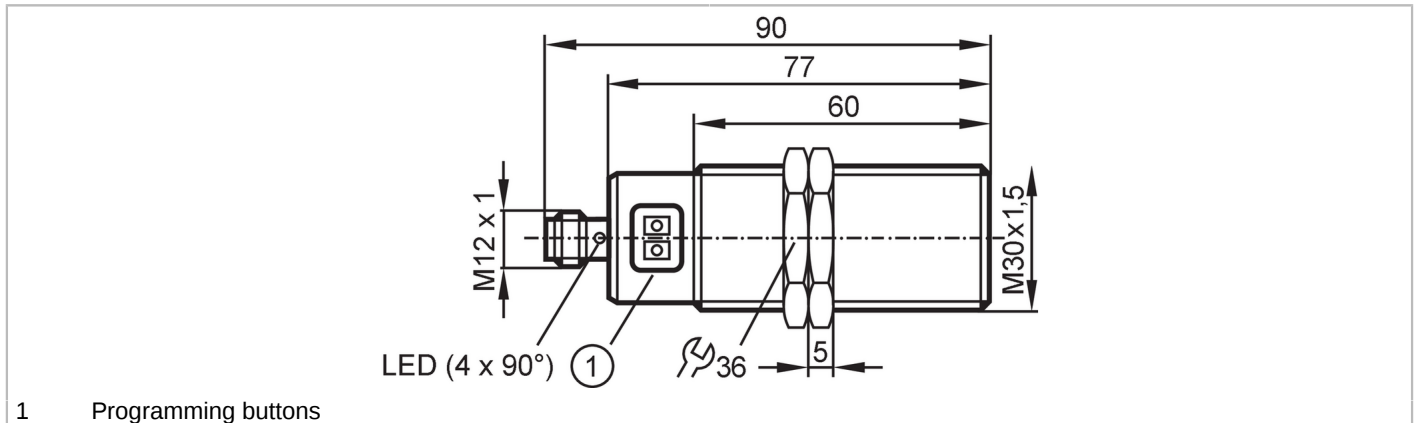


# KI5084



## Capacitive sensor

KIA3080BFAKG/2T/US



1 Programming buttons



Product characteristics	
Electrical design	PNP/NPN; (Automatic load detection PNP/NPN)
Output function	normally open / closed; (selectable)
Sensing range [mm]	8
Communication interface	IO-Link
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 90
Electrical data	
Operating voltage [V]	10...30 DC; (10...36 DC (60 °C))
Current consumption [mA]	< 18
Protection class	III
Reverse polarity protection	yes
Measuring principle	capacitive
Outputs	
Electrical design	PNP/NPN; (Automatic load detection PNP/NPN)
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	10
Short-circuit proof	yes
Overload protection	yes
Monitoring range	
Sensing range [mm]	8
Accuracy / deviations	
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-20...20
Interfaces	
Communication interface	IO-Link
Transmission type	COM1 (4,8 kBaud)

# KI5084



## Capacitive sensor

KIA3080BFAKG/2T/US

IO-Link revision	1.1	
SDCI standard	IEC 61131-9 CDV	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Multiple switching signal
	Function	Process data variable
	Function	Teach channel
SIO mode	yes	
Min. process cycle time [ms]	100.8	
Supported DeviceIDs	<b>Type of operation</b>	<b>DeviceID</b>
	default	388

<b>Operating conditions</b>		
Ambient temperature [°C]	-25...80	
Protection	IP 65; IP 67	

<b>Tests / approvals</b>		
EMC	EN 61000-4-2 ESD	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	3 V
	EN 55011	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	

<b>Mechanical data</b>		
Weight [g]	130	
Housing	Threaded type	
Mounting	flush mountable	
Dimensions [mm]	M30 x 1.5 / L = 90	
Thread designation	M30 x 1.5	
Material	housing: stainless steel (1.4404 / 316L); Pushbuttons: TPE-U; cover: PBT; LED window: PEI	

<b>Displays / operating elements</b>		
Display	Switching status	1 x LED, yellow
Teach function	yes	
Electronic lock	yes	

<b>Accessories</b>		
Items supplied	lock nuts: 2	

<b>Remarks</b>		
Pack quantity	1 pcs.	

# KI5084

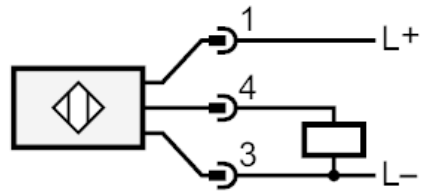
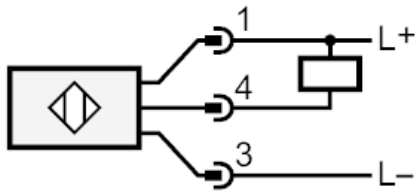
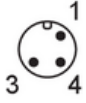


## Capacitive sensor

KIA3080BFAKG/2T/US

### Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3



- 4: OUT / IO-Link  
Automatic load detection PNP/NPN  
when using a resistive load < 20 k $\Omega$