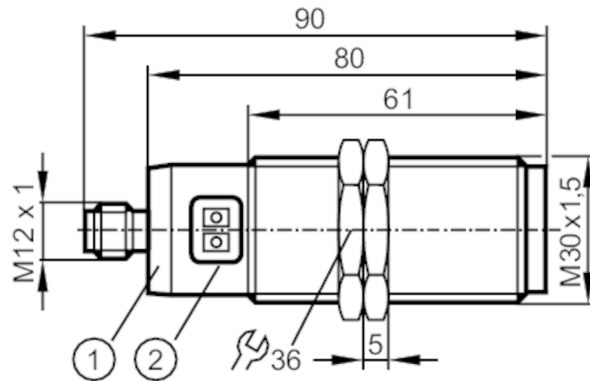


KI5082



Capacitive sensor

KI-3200NFAKGP2T/US



- 1 LED ring
- 2 Programming buttons



Product characteristics

Electrical design	PNP/NPN; (Automatic load detection PNP/NPN)
Output function	normally open / closed; (selectable)
Sensing range [mm]	20
Communication interface	IO-Link
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 90

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	II
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]	200
Switching frequency DC [Hz]	10
Short-circuit proof	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	20
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Accuracy / deviations

Hysteresis [% of Sr]	1...15
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KI5082



Capacitive sensor

KI-3200NFAKGP2T/US

Switch-point drift	[% of Sr]	-20...20
Interfaces		
Communication interface		IO-Link
Transmission type		COM1 (4,8 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
Profiles		Smart Sensor
SIO mode		yes
Min. process cycle time	[ms]	101
Supported DeviceIDs	Type of operation	DeviceID
	default	388
Operating conditions		
Ambient temperature	[°C]	-25...80
Note on ambient temperature		temperature of the sensing face: -25...110 °C
Protection		IP 65; IP 67
Tests / approvals		
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]	569
Mechanical data		
Weight	[g]	88.2
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 90
Thread designation		M30 x 1.5
Material		housing: PBT; Pushbuttons: TPE-U; LED window: PC
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Teach function		yes
Electronic lock		yes
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

KI5082

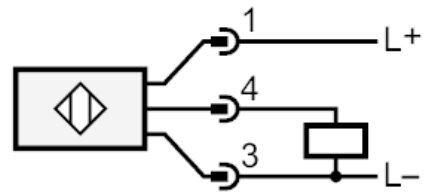
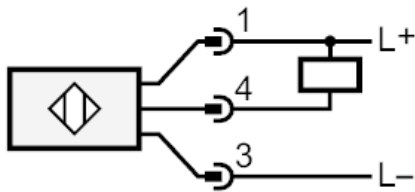


Capacitive sensor

KI-3200NFAKGP2T/US

Electrical connection - plug

Connector: 1 x M12; coding: A



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