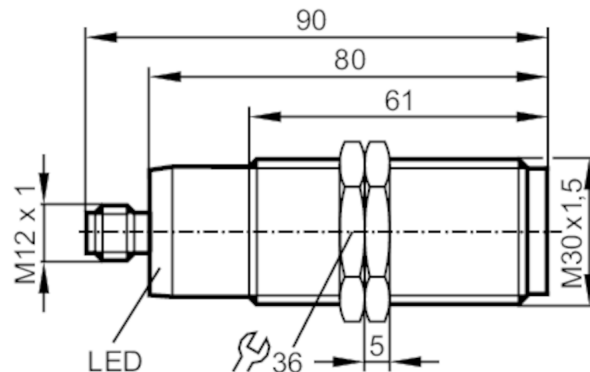




Capacitive sensor

KI-3200NFPKGP/US



Electrical data

Operating voltage	[V]	10...36 DC
Rated insulation voltage	[V]	60
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes
Reverse polarity protection		yes
Max. power-on delay time	[ms]	300

Outputs

Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.1
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	100
Switching frequency DC	[Hz]	10
Short-circuit proof		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	20
Real sensing range Sr	[mm]	20 ± 10 %

Accuracy / deviations

Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20

KI5096



Capacitive sensor

KI-3200NFPKGP/US

Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 65; IP 67
Tests / approvals		
EMC	EN 61000-4-2	4 kV CD / 8 kV AD
	EN 61000-4-3	3 V/m
	EN 61000-4-4	2 kV
	EN 61000-4-6	3 V
	EN 55011	class B
Shock/vibration resistance		EN 60947-5-2
MTTF	[years]	685
Mechanical data		
Weight	[g]	90
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 90
Thread designation		M30 x 1.5
Materials		housing: PBT-GF20; plug: PC
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; Contacts: gold-plated		
		

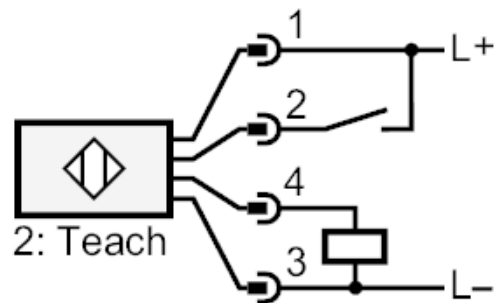
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Capacitive sensor

KI-3200NFPKGP/US



Connection



2: Teach