

KI5096

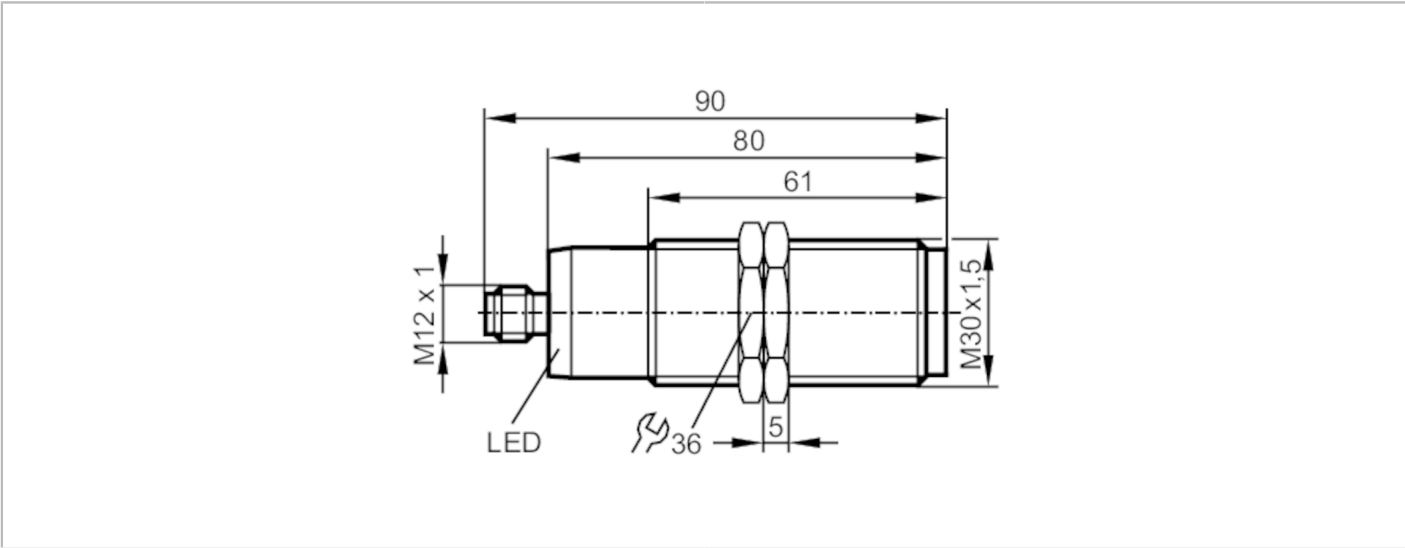


Capacitive sensor

KI-3200NFPKGP/US

phase-out article

Alternative articles: KI5309 or KI6000
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics	
Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	20
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 90
Application	
Special feature	Gold-plated contacts
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

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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

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]	88
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; LED window: PC

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied		lock nuts: 2
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Remarks

Pack quantity		1 pcs.
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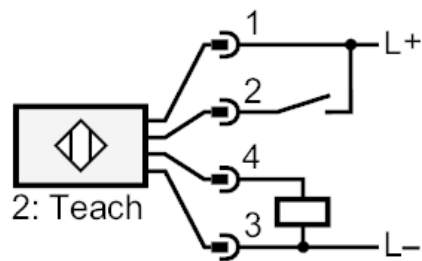
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



2: Teach