

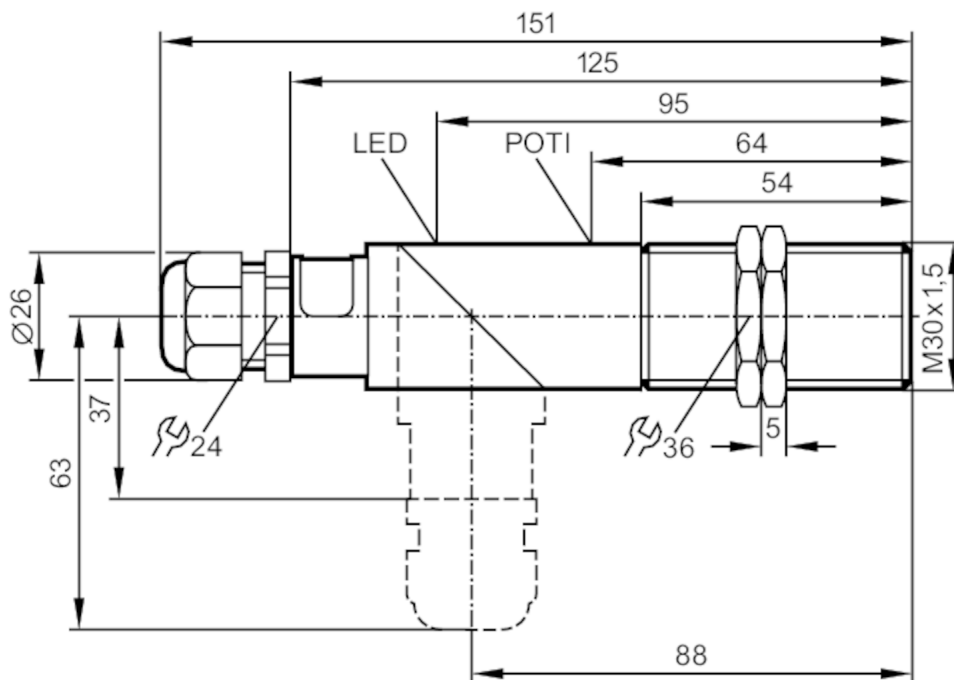
Capacitive sensor

KIE2015-FBOA/NI/3D

Article no longer available - archive entry

Alternative articles: KI000A

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	15
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 151

Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no

Outputs

Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	8
Max. voltage drop switching output AC	[V]	10
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.7 (110 V AC) / 1.5 (24 V DC)
Permanent current rating of switching output AC	[mA]	130; (250 (...40 °C) 250 (...50 °C); when used outside the hazardous area: 200 (...70 °C))



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Permanent current rating of switching output DC	[mA]	130; (250 (...40 °C) 250 (...50 °C); when used outside the hazardous area: 200 (...70 °C))
Short-time current rating of switching output	[mA]	1500; (20ms / 0,5Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	50
Short-circuit proof		no
Overload protection		no

Detection zone

Sensing range	[mm]	15
Sensing range adjustable		yes
Factory setting sensing range	[mm]	15
Real sensing range Sr	[mm]	15 ± 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]	-15...15

Operating conditions

Ambient temperature	[°C]	-20...60
Note on ambient temperature		when used outside the hazardous area: -25...70 °C
Protection		IP 54; (when used outside the hazardous area: IP 65)
Increased immunity		yes

Tests / approvals

ATEX marking		 II 3D Ex tD A22 IP54 T80°C X
EMC		IEC 60947-5-2

Mechanical data

Weight	[g]	0.161
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 151
Thread designation		M30 x 1.5
Materials		PBT; PA
Tightening torque for cable gland	[Nm]	2.7; (maximum: 3,5)

Displays / operating elements

Display	switching status	1 x LED, yellow
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Electrical connection

Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.
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Accessories

Items supplied		lock nuts: 2
		screwdriver: 1

KI0042



Capacitive sensor

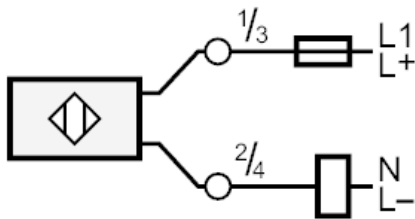
KIE2015-FBOA/NI/3D

Remarks	
Remarks	Recommendation: Check the safe functioning of the unit after a short circuit. Special conditions for safe operation apply for use in hazardous areas. Observe the corresponding notes in the operating instructions (Ex protection related part).
Pack quantity	1 pcs.

Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 5.5...13 mm; Cable gland: M20 X 1.5

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting
Place the fuse outside the hazardous area.