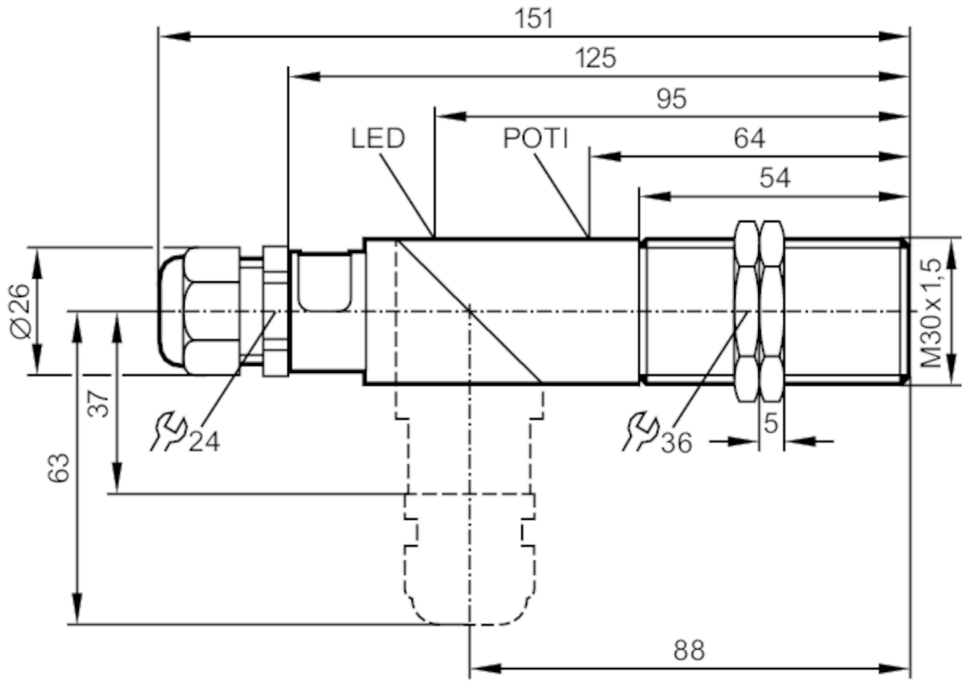
KI0042

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 / 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 / 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	
Monitoring range			
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	
Material		PBT; PA	
Tightening torque for cable gland	[Nm]	2.7; (maximum: 3,5)	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.	
Accessories			
Items supplied		lock nuts: 2	
		screwdriver: 1	

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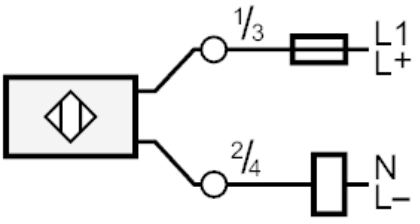
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Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit. Special conditions for safe operation apply for use in hazardous areas. Observe the corresponding notes in the operating instructions (Ex protection related 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.