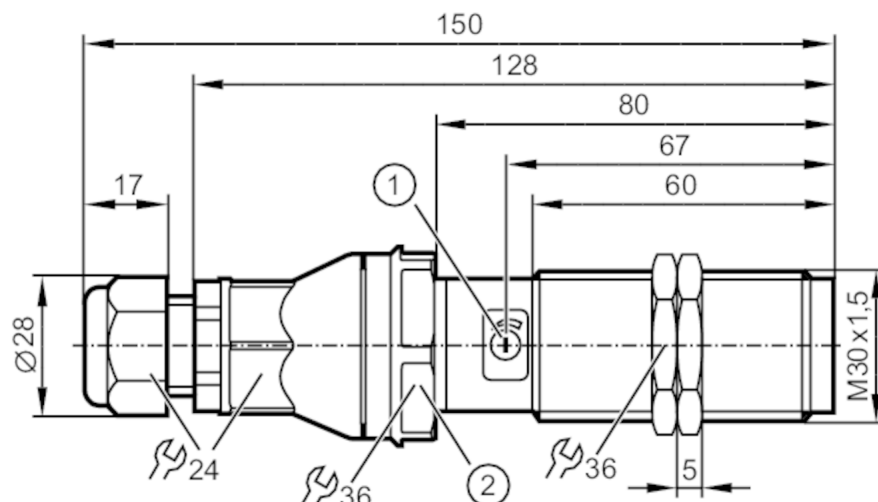


KI000A

Capacitive sensor

KIE2150NFB0A/3D



- 1 potentiometer
2 Tightening torque 10 Nm



Product characteristics

Output function	normally open / closed; (selectable)
Sensing range [mm]	15
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 150

Electrical data

Operating voltage [V]	30...250 AC / 20...250 DC
Protection class	II
Reverse polarity protection	yes
Measuring principle	capacitive

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]	100; (150 (...40 °C))
Permanent current rating of switching output DC [mA]	100; (150 (...40 °C))
Short-time current rating of switching output [mA]	1000; (20ms / 0,5Hz)
Switching frequency AC [Hz]	10
Switching frequency DC [Hz]	10
Notes on switching frequency [Hz]	only for resistive loads; 2 Hz for utilization category AC-140
Short-circuit proof	no
Overload protection	no

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Capacitive sensor

KIE2150NFB0A/3D

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]	-20...20
Operating conditions		
Ambient temperature	[°C]	-20...60
Protection		IP 65; IP 67
Tests / approvals		
ATEX marking		 II 3D Ex tc IIIC T90°C Dc X
EMC	EN 61000-4-2 ESD	kV / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	1 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	305
Mechanical data		
Weight	[g]	150
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 150
Thread designation		M30 x 1.5
Material		PBT; PA
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
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.

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Capacitive sensor

KIE2150NFBOA/3D

Electrical connection

terminals: 0.34...2.5 mm²; Cable sheath: Ø 5...9 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.