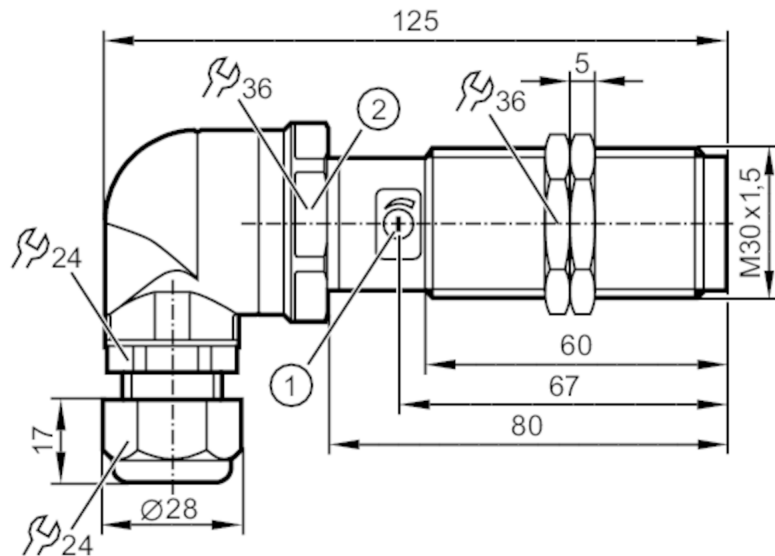


KI505A



Capacitive sensor

KIE4150NCPKG/3D



- 1 potentiometer
2 Tightening torque 10 Nm



Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design	PNP
Output function	complementary
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	10
Short-circuit proof	yes
Overload protection	yes

Detection zone

Sensing range	[mm]	15
Sensing range adjustable		yes
Factory setting sensing range	[mm]	15
Real sensing range S_r	[mm]	$15 \pm 10 \%$

Accuracy / deviations

Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20

KI505A



Capacitive sensor

KIE4150NCPKG/3D

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 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	463
IEC 60255-5		1 kV line to line, Ri: 500 Ohm

Mechanical data

Weight	[g]	156.4
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 125
Thread designation		M30 x 1.5
Materials		PBT; PA

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Accessories (supplied)	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection

terminals: 0.34...1.5 mm²; Cable sheath: Ø 5...9 mm; Cable gland: M20 X 1.5

Connection

