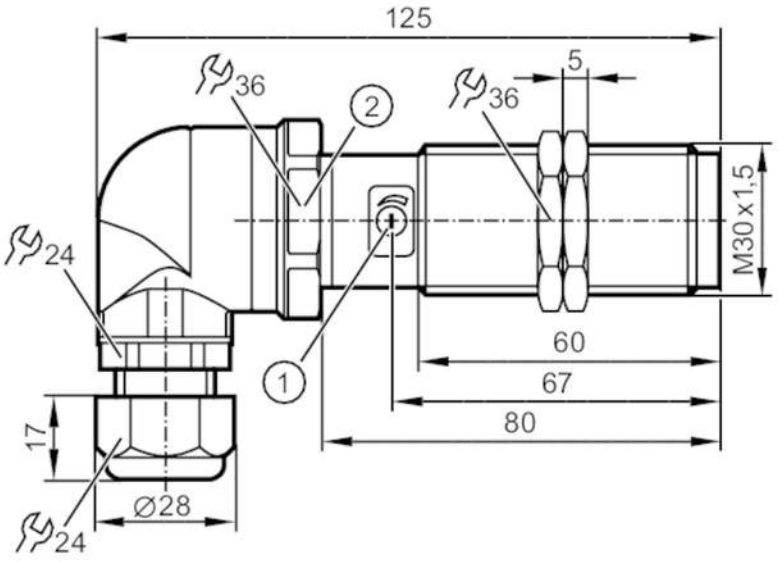
KI505A

Capacitive sensor

KIE4150NCPKG/3D



1 potentiometer
2 Tightening torque 10 Nm

Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	15
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 125
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes
Measuring principle		capacitive
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

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Sensing range adjustable			yes
Factory setting sensing range	[mm]		15
Real sensing range Sr	[mm]		15 ± 10 %
Accuracy / deviations			
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 61000-4-6 HF conducted	3 V
		EN 55011	class B
		IEC 60255-5	1 kV line to line, Ri: 500 Ohm
MTTF	[years]		463
Mechanical data			
Weight	[g]		155
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
Accessories			
Items supplied			lock nuts: 2
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

