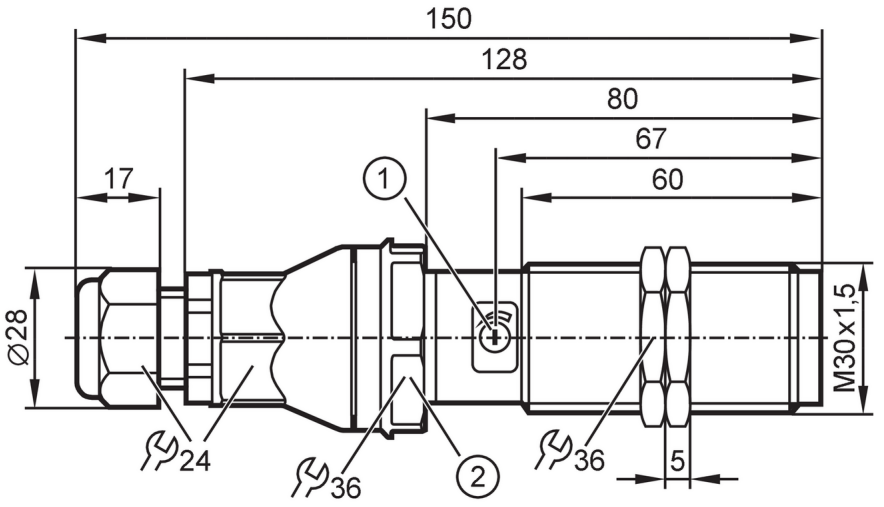
KI503A

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 = 150
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 protection		yes
Type of short-circuit protection		pulsed
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	
		BVS 20 ATEX E 058 X; IECEx BVS 20.0061X	
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]	149	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 150	
Thread designation		M30 x 1.5	
Materials		housing, cover, end cap: PPA; nut: PA; potentiometer: PBT	
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

