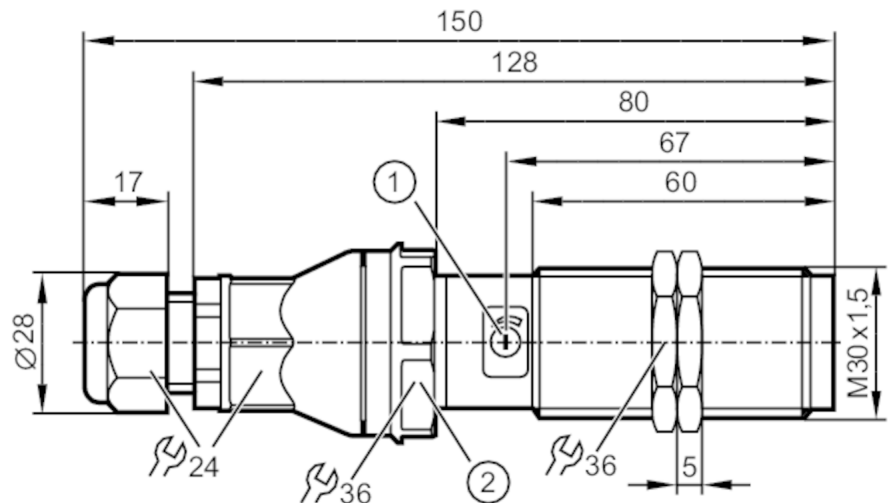


KI503A



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	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

