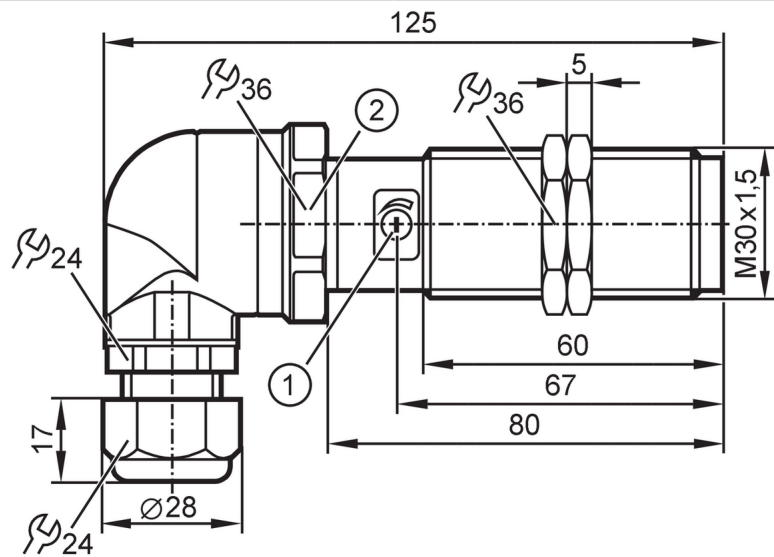


KI505A



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

Monitoring range

Sensing range [mm]	15
Sensing range adjustable	yes

KI505A



Capacitive sensor

KIE4150NCPKG/3D

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]	155	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 125	
Thread designation		M30 x 1.5	
Material		PBT; PA	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

KI505A

Capacitive sensor

KIE4150NCPKG/3D



Electrical connection

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

Connection

