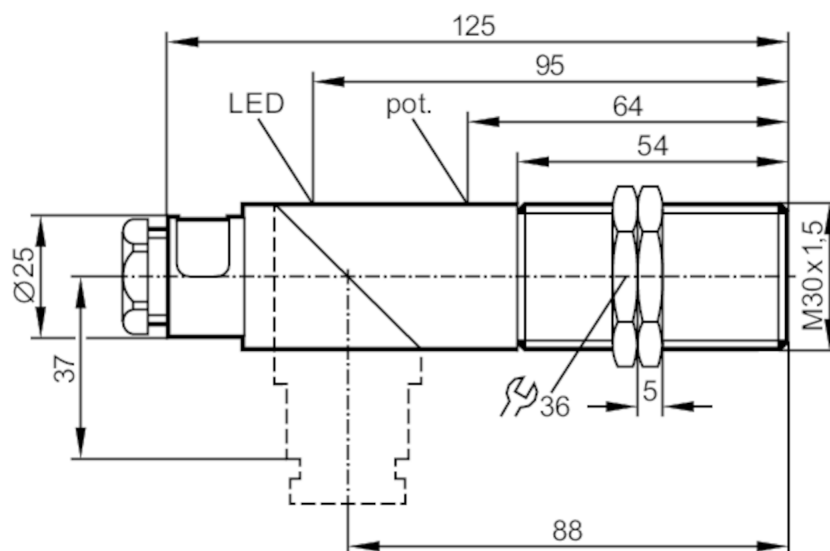


KI5023

Capacitive sensor

KIE3015-FPKG/NI/55V



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (selectable)
Sensing range [mm]	15
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 125

Electrical data

Operating voltage [V]	10...55 DC; (cULus - Class 2 source required)
Current consumption [mA]	14; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	40
Short-circuit proof	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	15
Real sensing range Sr [mm]	15 ± 10 %
Operating distance [mm]	0...12.1



Capacitive sensor

KIE3015-FPKG/NI/55V

Accuracy / deviations		
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis	[% of Sr]	
Switch-point drift	[% of Sr]	
		1...15
		-15...15
Operating conditions		
Ambient temperature		[°C]
Protection		IP 65
Increased immunity		yes; (Increased immunity to conducted radio frequency interference)
Tests / approvals		
EMC		EN 60947-5-2
MTTF		[years]
		743
Mechanical data		
Weight		[g]
Housing		Threaded type
Mounting		non-flush mountable
Dimensions		[mm]
Thread designation		M30 x 1.5 / L = 125
Material		M30 x 1.5
		PBT; end cap: PC
Displays / operating elements		
Display		Switching status
		1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5		
Connection		

