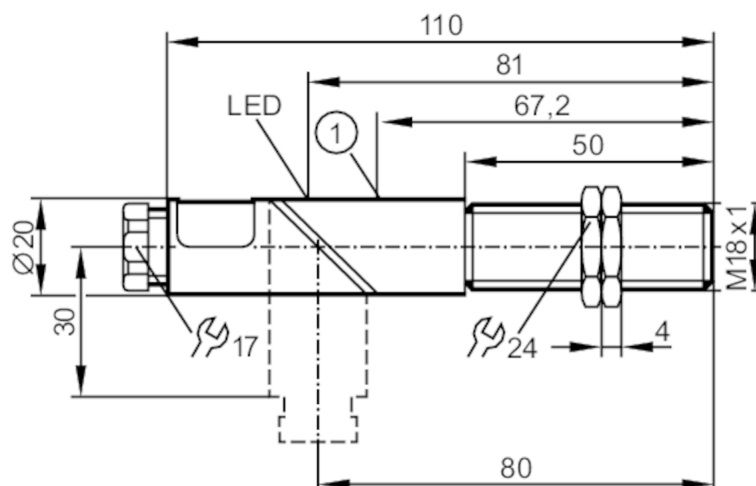


KG5040

Capacitive sensor

KGE2008-FRKG/NI



1 potentiometer



Electrical data

Operating voltage	[V]	10...55 DC
Protection class		II

Outputs

Electrical design		PNP/NPN
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	1
Permanent current rating of switching output DC	[mA]	200; (400 (...50 °C))
Switching frequency DC	[Hz]	50
Short-circuit proof		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	2.5...8
Sensing range adjustable		yes
Factory setting sensing range	[mm]	8
Real sensing range Sr	[mm]	8 ± 10 %
Operating distance	[mm]	0...6.5

Accuracy / deviations

Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-15...15

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65

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Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	497
Mechanical data		
Weight	[g]	79.2
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 110
Thread designation	M18 x 1	
Materials	PBT	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2	
	screwdriver: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
terminals: ...2.5 mm²; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5		
Connection		

