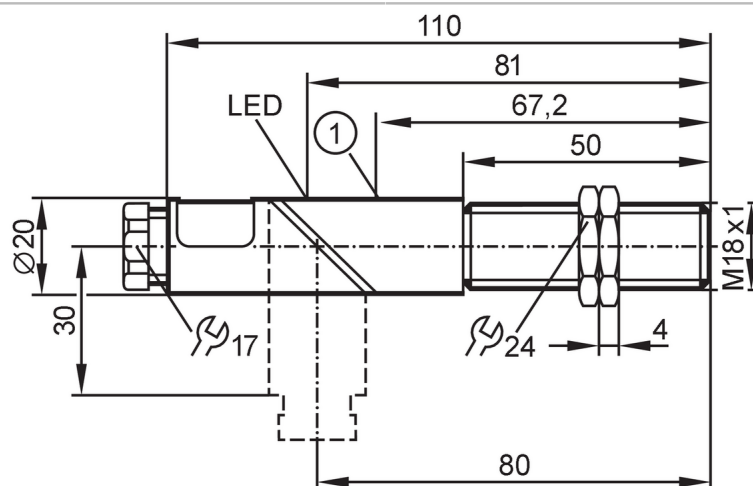


KG5040

Capacitive sensor

KGE2008-FRKG/NI



1 potentiometer



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	2.5...8
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 110

Electrical data

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

Outputs

Electrical design	PNP/NPN
Output function	normally open / 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

Monitoring range

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

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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
Tests / approvals			
EMC		EN 60947-5-2	
MTTF		[years]	497
Mechanical data			
Weight		[g]	80.5
Housing			Threaded type
Mounting			non-flush mountable
Dimensions		[mm]	M18 x 1 / L = 110
Thread designation			M18 x 1
Material			housing: PBT
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 mm ² ; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5			
Connection			

