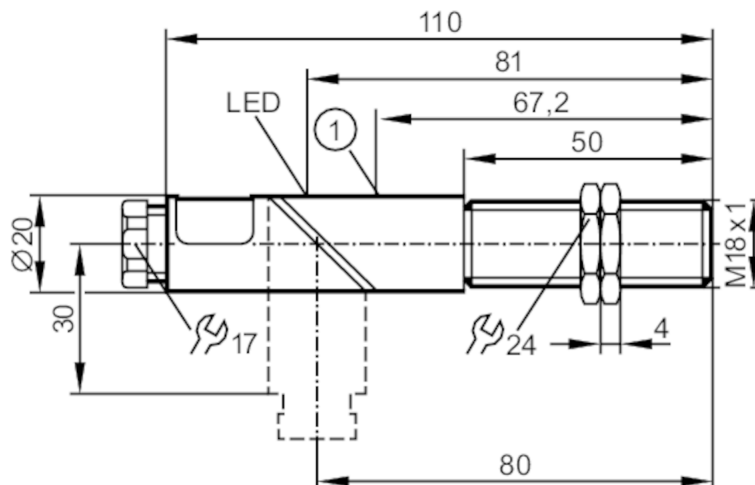


KG5040



Capacitive sensor

KGE2008-FRKG/NI



1 potentiometer



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally 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 / 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

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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
Materials	PBT

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
	screwdriver: 1

Remarks

Pack quantity	1 pcs.
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Electrical connection

terminals: ...2.5 mm²; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5

Connection

