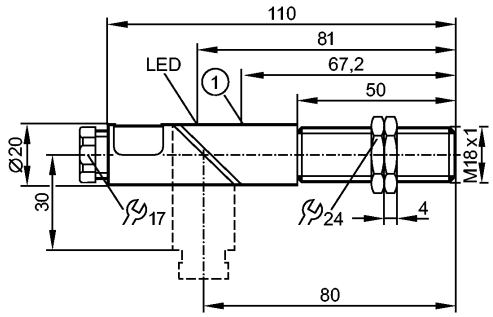
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KG5040

KGE2008-FRKG/NI

Capacitive sensors



1: potentiometer

Made in Germany

Product characteristics		
Capacitive sensor		
Plastic thread M18 x 1		
Terminals		
Sensing range 8 mm; adjustable 2.5...8 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		DC PNP/NPN
Operating voltage	[V]	10...55 DC
Protection class		II
Outputs		
Output function		normally open / closed programmable
Voltage drop	[V]	< 4.6
Minimum load current	[mA]	4
Leakage current	[mA]	< 1
Current rating	[mA]	200; 400 (...50 °C)
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	50
Range		
Sensing range	[mm]	8, adjustable 2.5...8 mm
Real sensing range (Sr)	[mm]	8 ± 10 %
Operating distance	[mm]	0...6.5
Accuracy / deviations		
Correction factors		water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-15...15
Environment		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC		IEC 60947-5-2: 2007
MTTF	[Years]	497
Mechanical data		
Mounting		non-flush mountable

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Capacitive sensors

Housing materials		PBT
Weight	[kg]	0.079
Displays / operating elements		
Output status indication	LED	yellow
Electrical connection		
Connection		terminals up to 2.5 mm²; cable diameter 4.5...10 mm, cable gland M16 x 1.5

Wiring



Accessories		
Accessories (included)		2 lock nuts; screwdriver
Remarks		
Pack quantity	[piece]	1