

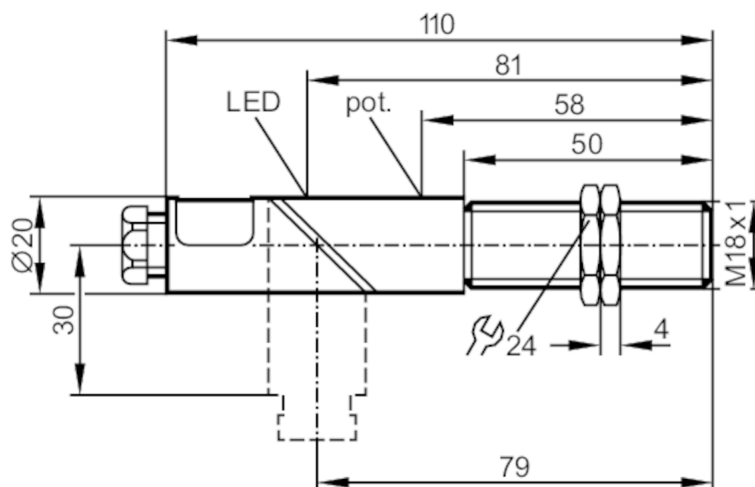
KG5017

Capacitive sensor

KGE2008-FRKG



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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
Reverse polarity protection	yes

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]	0.6
Permanent current rating of switching output DC [mA]	400
Switching frequency DC [Hz]	50
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	2.5...8
Sensing range adjustable	yes

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Factory setting sensing range [mm]	8
Real sensing range Sr [mm]	$8 \pm 10\%$
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

Tests / approvals

EMC	EN 60947-5-2
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Mechanical data

Housing	Threaded type
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1 / L = 110
Thread designation	M18 x 1
Material	PBT; end cap: PC

Displays / operating elements

Display	Switching status	1 x LED, red
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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

Connection

