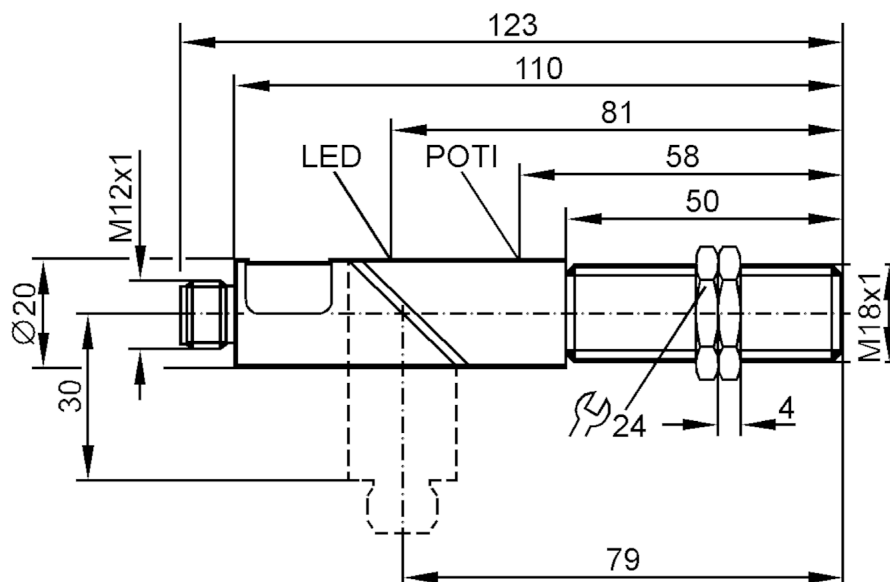


KG8500

Capacitive sensor

KGE2008FRKG/NI/US100IRF



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 = 123

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 proof	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	2.5...8
Sensing range adjustable	yes
Factory setting sensing range [mm]	8

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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

Tests / approvals

EMC	EN 60947-5-2	
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Mechanical data

Weight	[g]	81.647
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 123
Thread designation		M18 x 1
Material		PBT; bevelled housing part: PC

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 - plug

Connector: 1 x M12; coding: A

