

Capacitive sensor

KI-3015-FPKG/NI/0,10M/PH/US100



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (selectable)
Sensing range [mm]	3...15
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 81

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 15
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Short-time current rating of switching output [mA]	250
Switching frequency DC [Hz]	40
Short-circuit proof	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	3...15
Sensing range adjustable	yes
Factory setting sensing range [mm]	15
Real sensing range Sr [mm]	15 ± 10 %
Operating distance [mm]	0...12.1

Accuracy / deviations

Correction factor	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis [% of Sr]	1...15



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Switch-point drift	[% of Sr]	-15...15
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
MTTF	[years]	692
Mechanical data		
Weight	[g]	102.5
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 81
Thread designation		M30 x 1.5
Material		PBT
Displays / operating elements		
Display	Switching status	1 x LED, red
Accessories		
Items supplied		lock nuts: 2
		screwdriver: 1
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Cable: 0.1 m, PUR		
Connector: 1 x M12; coding: A		

