

KG5047



Capacitive sensor

KG-2008-FRKG/NI/PH



Electrical data

Operating voltage	[V]	10...55 DC
Protection class		II
Reverse polarity protection		yes

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]	250; (400 (...50 °C))
Switching frequency DC	[Hz]	50
Short-circuit proof		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	8
Sensing range adjustable		yes
Factory setting sensing range	[mm]	8
Real sensing range S_r	[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 S_r]	1...15
Switch point drift	[% of S_r]	-15...15

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	505

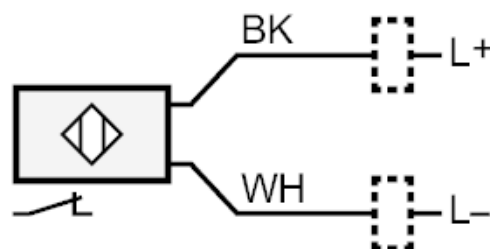
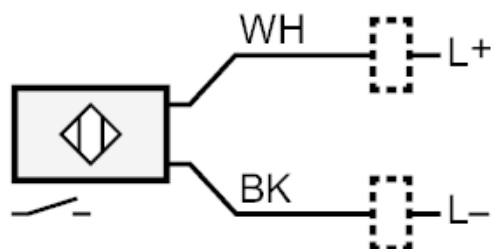
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Mechanical data		
Weight	[g]	116
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 84
Thread designation		M18 x 1
Materials		PBT
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2	
	screwdriver: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 2 m, PUR / PVC; 2 x 0.34 mm²		
Connection		



Core colours :

BK = black
WH = white