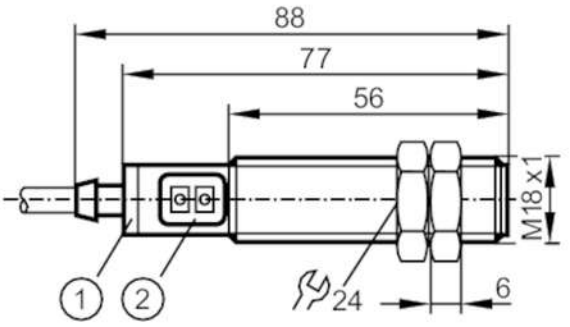
KG5070

Capacitive sensor

KG-3080NFPKGS2T/10M



1 LED ring
2 programming buttons

Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	8
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 77
Application		
Recommended media		conductive media with a dielectric constant > 20
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes
Measuring principle		capacitive
Outputs		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	10
Short-circuit proof		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	8
Real sensing range Sr	[mm]	8 ± 10 %
Accuracy / deviations		
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.1
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20

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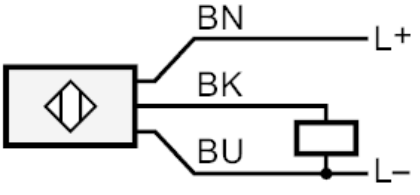
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	672	
Mechanical data			
Weight	[g]	375.2	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 77	
Thread designation		M18 x 1	
Materials		housing: PP white; Sealing: TPE-U; pushbuttons: TPE-U	
Displays / operating elements			
Display		switching status	1 x LED ring, yellow cable entry lights translucently
		operation	1 x LED, green
Teach function		yes	
Electronic lock		yes	
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 10 m, PVC; conduit attachment; 3 x 0.34 mm²

Connection



	Core colours :
BK =	black
BN =	brown
BU =	blue