KG5068

Capacitive sensor

KG-3080NFAKGS2T/5M

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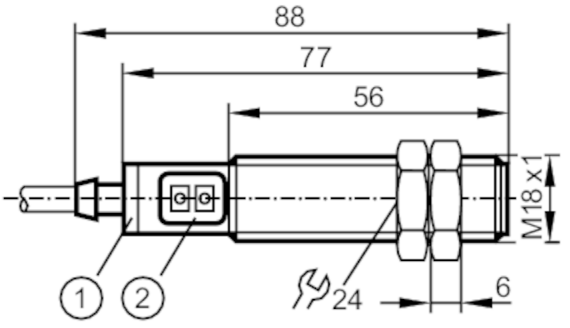

1 LED ring
2 Programming buttons

Product characteristics		
Electrical design		PNP/NPN; (Automatic load detection PNP/NPN)
Output function		normally open / 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
Outputs		
Electrical design		PNP/NPN; (Automatic load detection PNP/NPN)
Output function		normally open / 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 protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Sensing range	[mm]	8
Real sensing range Sr	[mm]	8 ± 10 %

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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	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		IEC 60947-5-2	
Mechanical data			
Weight	[g]	240	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 77	
Thread designation		M18 x 1	
Material		housing: PP white; sealing: TPE-U; Pushbuttons: TPE-U	
Displays / operating elements			
Display		Switching status	1 x LED ring, yellow translucent cable entry signals output status
Teach function		yes	
Electronic lock		yes	
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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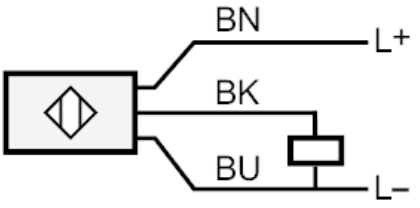
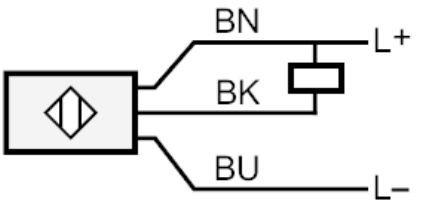
Electrical connection

Cable: 5 m, PVC; Conduit attachment; 3 x 0.34 mm²

Connection





BK:	Automatic load detection PNP/NPN when using a resistive load < 20 kΩ Core colors :
BK =	black
BN =	brown
BU =	blue