

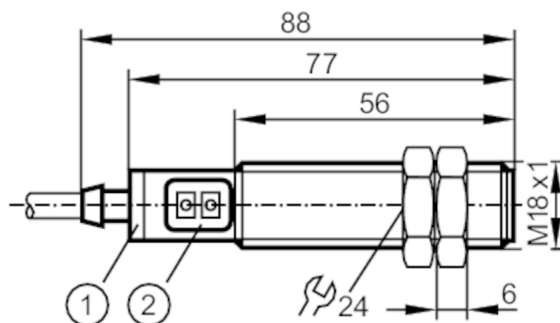
KG5068

Capacitive sensor

KG-3080NFAKGS2T/5M



Status Archive



- 1 LED ring
- 2 programming buttons



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 / 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 protection		yes
Type of short-circuit protection		pulsed
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

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67

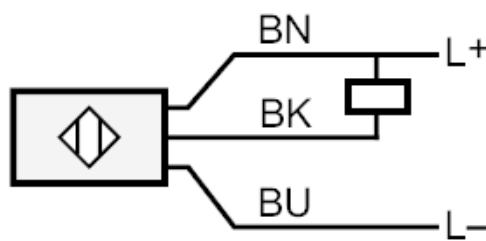
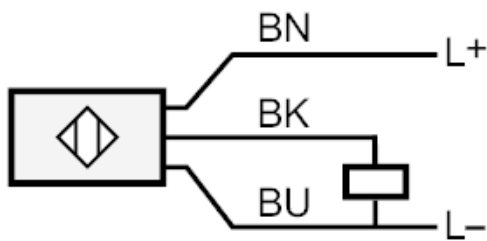
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Tests / approvals		
EMC	IEC 60947-5-2	
MTTF	[years]	560
Mechanical data		
Weight	[g]	240
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 77
Thread designation	M18 x 1	
Materials	housing: PP white; Sealing: TPE-U; pushbuttons: TPE-U	
Displays / operating elements		
Display	switching status	1 x LED ring, yellow cable entry lights translucently
Teach function	yes	
Electronic lock	yes	
Accessories		
Accessories (supplied)	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
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 colours :
BK =	black
BN =	brown
BU =	blue