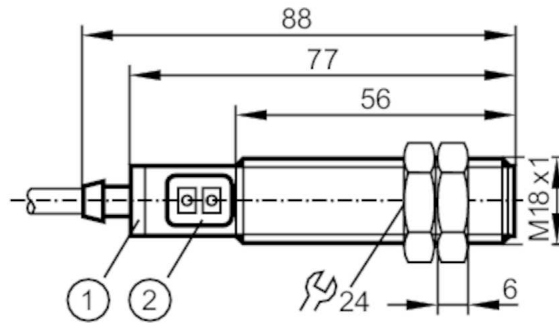


# KG5070



## Capacitive sensor

KG-3080NFPKGS2T/10M



- 1 LED ring
- 2 Programming buttons



### Product characteristics

Electrical design	PNP
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
Measuring principle	capacitive

### 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]	200
Switching frequency DC [Hz]	10
Short-circuit proof	yes
Overload protection	yes

### Monitoring range

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

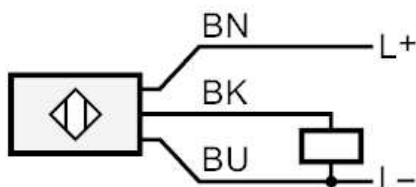
# KG5070



## Capacitive sensor

KG-3080NFPKGS2T/10M

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
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
	Power	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 mm <sup>2</sup>		
Connection		



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