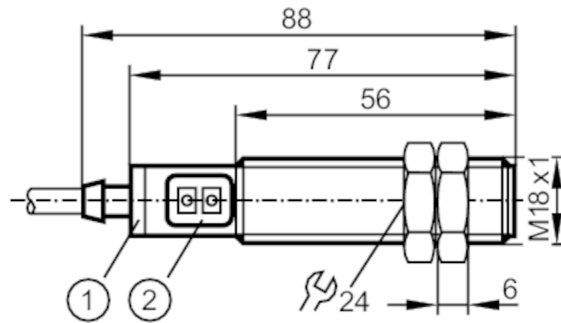


# KG5067



## Capacitive sensor

KG-3080NFAKGS2T



- 1 LED ring
- 2 programming buttons



### 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 proof		yes
Overload protection		yes

### Detection zone

Sensing range	[mm]	8
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### Accuracy / deviations

Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20

### Interfaces

Communication interface		IO-Link
Transmission type		COM1 (4,8 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
IO-Link device ID		387d / 000183h
Profiles		Smart Sensor
SIO mode		yes
Min. process cycle time	[ms]	101

# KG5067



## Capacitive sensor

KG-3080NFAKGS2T

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
Vibration resistance	EN 60068-2-6 Fc	(10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance	EN 60068-2-27 Ea	30 g 6 shocks / 11 ms half-sine (x, y, z)
MTTF	[years]	560
Mechanical data		
Weight	[g]	138
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, yellow
Teach function		yes
Electronic lock		yes
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

# KG5067



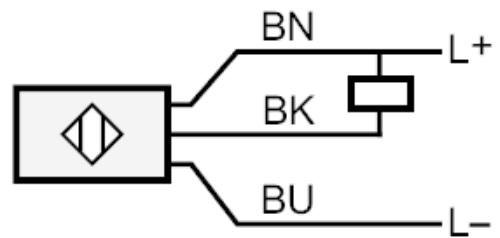
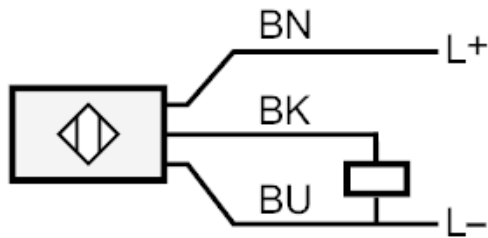
## Capacitive sensor

KG-3080NFAKGS2T

### Electrical connection

Cable: 2 m, PVC, Ø 4.9 mm; 3 x 0.34 mm<sup>2</sup>

### Connection



BK:                   OUT / IO-Link  
                          automatic load detection PNP/NPN  
                          when using a resistive load < 20 kΩ  
                          Core colours :

BK =                   black  
BN =                   brown  
BU =                   blue