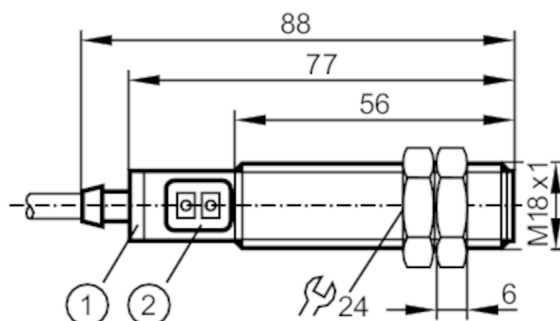




Capacitive sensor

KG-3080NFAKGS2T



- 1 LED ring
2 programming buttons



Product characteristics

Electrical design	PNP/NPN; (automatic load detection PNP/NPN)
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	8
Communication interface	IO-Link
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 77

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/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)

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Capacitive sensor

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IO-Link revision	1.1				
SDCI standard	IEC 61131-9 CDV				
Profiles	Smart Sensor				
SIO mode	yes				
Min. process cycle time [ms]	101				
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>387</td></tr> </table>	Type of operation	DeviceID	default	387
Type of operation	DeviceID				
default	387				

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]	96.5
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	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

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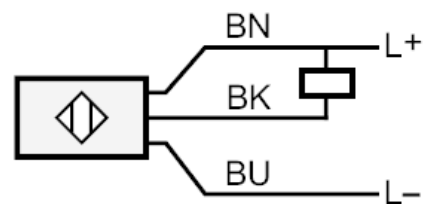
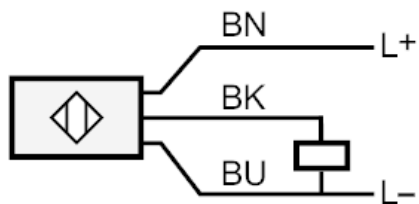
Capacitive sensor

KG-3080NFAKGS2T

Electrical connection

Cable: 2 m, PVC, Ø 4.9 mm; 3 x 0.34 mm²

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