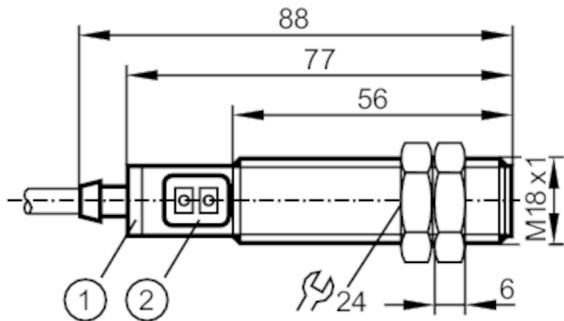


KG5067



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 / 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 / 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
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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

KG-3080NFAKGS2T

IO-Link revision		1.1	
SDCI standard		IEC 61131-9 CDV	
Profiles	Smart Sensor - SSP 0		Generic Profiled Sensor
	Function		Multiple switching signal
	Function		Process data variable
	Function		Teach channel
SIO mode		yes	
Min. process cycle time [ms]		100.8	
Supported DeviceIDs		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, vibration duration 5 min., 30 min. per axis with 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	
Material		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.	

KG5067



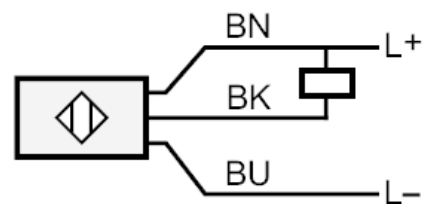
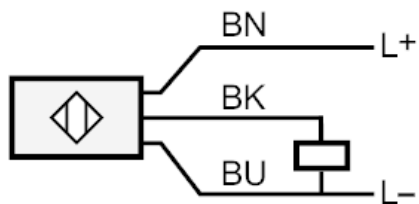
Capacitive sensor

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 colors :
BK = black
BN = brown
BU = blue