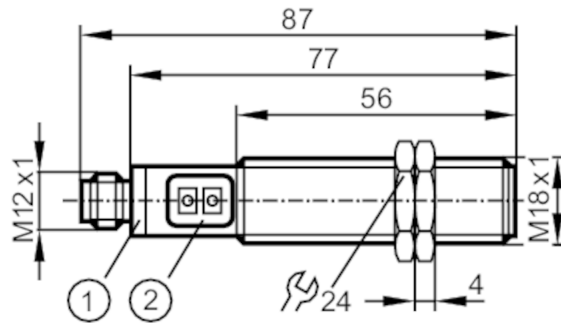


KG5071



Capacitive sensor

KG-3080NFPKG/2T/US



- 1 LED ring
2 programming buttons



Product characteristics

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	8
Communication interface	IO-Link
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 87

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 / 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

KG5071



Capacitive sensor

KG-3080NFPKG/2T/US

Interfaces		
Communication interface	IO-Link	
Transmission type	COM1 (4,8 kBaud)	
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	Type of operation	DeviceID
	Default	387
Operating conditions		
Ambient temperature [°C]	-25...80	
Note on ambient temperature	temperature of the sensing face: -25...110 °C	
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 60068-2-27 Ea	(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]	652	
Mechanical data		
Weight [g]	31.3	
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions [mm]	M18 x 1 / L = 87	
Thread designation	M18 x 1	
Materials	housing: PBT orange; pushbuttons: TPE-U; LED window: PC	
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.	

KG5071



Capacitive sensor

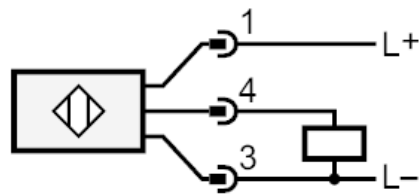
KG-3080NFPKG/2T/US

Electrical connection - plug

Connector: 1 x M12; coding: A



Connection



4: OUT / IO-Link