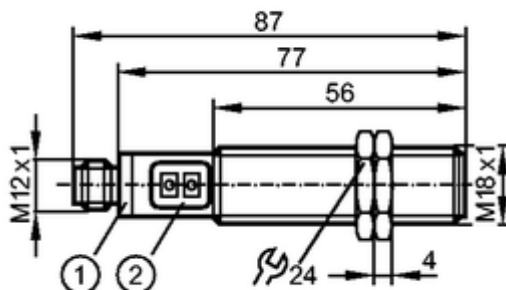


KG5066

KG-3120NFPKGP2T/US

Capacitive sensors



- 1: LED ring
2: Programming buttons

**Product characteristics**

Capacitive sensor
Plastic thread M18 x 1
Connector
Teach function
Electronic lock
Sensing range 12 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Current rating [mA]	200
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	10

Range

Sensing range [mm]	12
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Accuracy / deviations

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

Interfaces**IO-Link device**

Transfer 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

Environment

Ambient temperature [°C]	-25...80, 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 60068-2-6 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]	662	

Mechanical data

Mounting	non-flush mountable	
Housing materials	housing: PBT; connector: PC; buttons: TPE-U	
Weight [kg]	0.063	

Displays / operating elements

Output status indication LED	yellow
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Electrical connection

Connection	M12 connector
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Wiring

4: OUT / IO-Link

Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity [piece]	1
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