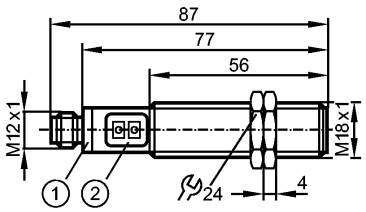
efector150

KG5065

KG-3120NFAKGP2T/US

Capacitive sensors



1: LED ring
2: Programming buttons

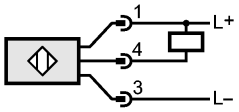
Made in Germany

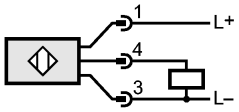
Product characteristics		
Capacitive sensor		
Plastic thread M18 x 1		
Connector		
Teach function		
Electronic lock		
Automatic load detection PNP/NPN		
Sensing range 12 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		DC PNP/NPN
Automatic load detection PNP/NPN		when using a resistive load < 20 kΩ
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
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 (80...2000 MHz) EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 3 V (0.15...80 MHz) 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]	566
Mechanical data		
Mounting		non-flush mountable
Housing materials		housing: PBT; connector: PC; buttons: TPE-U
Weight	[kg]	0.059
Displays / operating elements		
Output status indication	LED	yellow
Electrical connection		
Connection		M12 connector

Wiring







4: OUT / IO-Link

Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1