



Capacitive sensor

KI-3200NFAKGP2T/US



- 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]	20
Communication interface		IO-Link
Housing		Threaded type
Dimensions	[mm]	M30 x 1.5 / L = 90
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]	20
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15

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Switch-point drift	[% of Sr]	-20...20	
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	388	
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 60068-2-6 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]	569	
Mechanical data			
Weight	[g]	88.2	
Housing	Threaded type		
Mounting	non-flush mountable		
Dimensions	[mm]	M30 x 1.5 / L = 90	
Thread designation	M30 x 1.5		
Material	housing: PBT; 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.		

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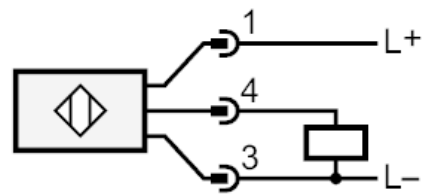
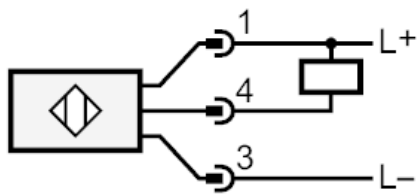


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Electrical connection - plug

Connector: 1 x M12; coding: A



4: OUT / IO-Link
Automatic load detection PNP/NPN
when using a resistive load < 20 kΩ