

KG5065



Capacitive sensor

KG-3120NFAKGP2T/US



- 1 LED ring
- 2 Programming buttons



Product characteristics		
Electrical design		PNP/NPN; (Automatic load detection PNP/NPN;; when using a resistive load < 20 kΩ)
Output function		normally open / closed; (selectable)
Sensing range	[mm]	12
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/NPN; (Automatic load detection PNP/NPN;; when using a resistive load < 20 kΩ)
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]	12
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-20...20

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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 - 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
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]	566
Mechanical data		
Weight	[g]	31.5
Housing	Threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 87
Thread designation	M18 x 1	
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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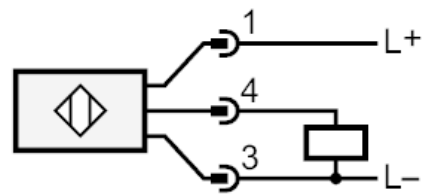
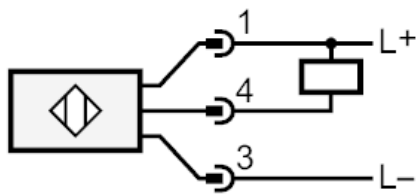


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Electrical connection - plug

Connector: 1 x M12; coding: A



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