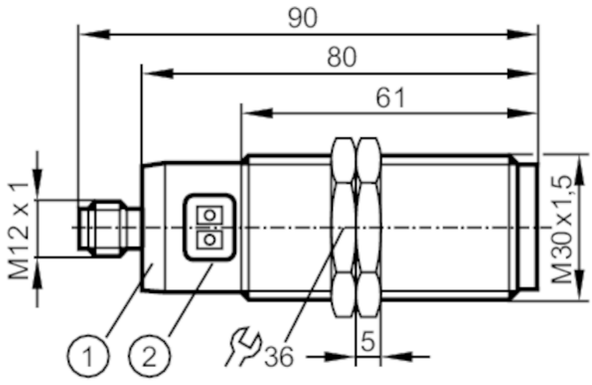
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KI5083

Capacitive sensor

KI-3200NFPKGP2T/US



1 LED ring
2 programming buttons

Product characteristics		
Electrical design		PNP
Output function		normally open / normally 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
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]	20
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15

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Capacitive sensor

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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, 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]	663		
Mechanical data			
Weight [g]	88		
Housing	threaded type		
Mounting	non-flush mountable		
Dimensions [mm]	M30 x 1.5 / L = 90		
Thread designation	M30 x 1.5		
Materials	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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Capacitive sensor

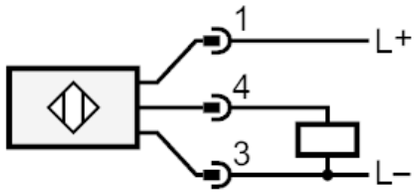
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Electrical connection - plug

Connector: 1 x M12; coding: A



Connection



4: OUT / IO-Link