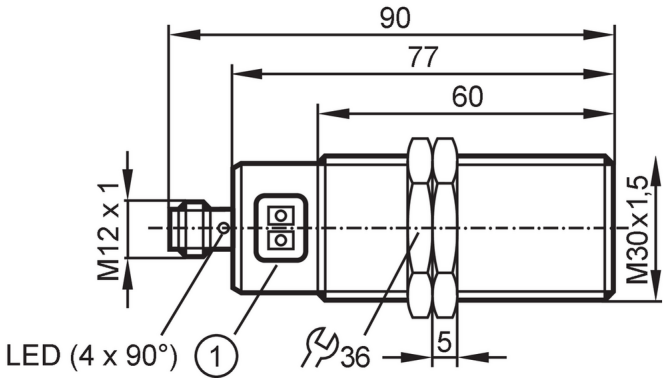
KI5085

Capacitive sensor

KIA3080BFPKG/2T/US



1 programming buttons

Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	8
Communication interface		IO-Link
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 90
Electrical data		
Operating voltage	[V]	10...30 DC; (10...36 DC (60 °C))
Current consumption	[mA]	< 18
Protection class		III
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]	100
Switching frequency DC	[Hz]	10
Short-circuit proof		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	8
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20
Interfaces		
Communication interface		IO-Link
Transmission type		COM1 (4,8 kBaud)

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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	388

Operating conditions

Ambient temperature	[°C]	-25...80	
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]	719	

Mechanical data

Weight	[g]	128.8
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 90
Thread designation		M30 x 1.5
Materials		housing, end cap: stainless steel (316L/1.4404); pushbuttons: TPE-U; cover: PBT; LED window: PEI; nut: brass white bronze coated

Displays / operating elements

Display	switching status	1 x LED, yellow
Teach function		yes
Electronic lock		yes

Accessories

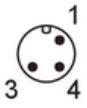
Items supplied	lock nuts: 2

Remarks

Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 3

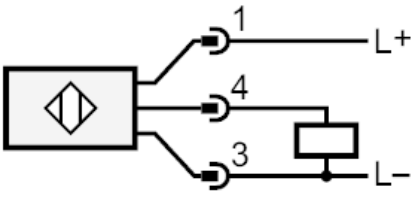


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Connection



4: OUT / IO-Link