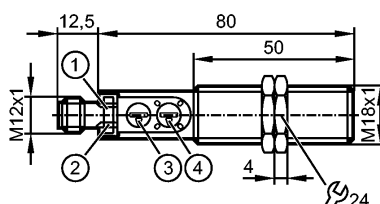


KG6000

KG-3150NFPKG/PL/2P/US/IO

Capacitive sensors



- 1: LED yellow (output status indication)
- 2: LED green (output status indication)
- 3: Potentiometer (sensing range)
- 4: Potentiometer (switching function)

CE EAC IO-Link

Product characteristics

Capacitive sensor
Plastic thread M18 x 1
Connector
Sensing range 15 mm; einstellbar 0.5...30 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 22
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Current rating [mA]	200
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	30

Range

Sensing range [mm]	15, einstellbar 0.5...30 mm
Real sensing range (Sr) [mm]	15 ± 10 %

Accuracy / deviations

Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

Interfaces

IO-Link device	
Transfer type	COM2 (38.4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9
Profiles	Smart Sensor: Process Data Variable; Device Identification
SIO mode	yes
Required master port class	A
Min. process cycle time [ms]	20

Environment

Ambient temperature [°C]	-25...80
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KG6000

KG-3150NFPKG/PL/2P/US/IO

Capacitive sensors

Medium temperature	[°C]	-25...110
Protection		IP 65 / IP 67 / IP 69K

Tests / approvals

EMC	EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-6 EN 55011:	8 kV AD / 4 kV CD 10 V/m 2 kV 10 V class B
Vibration resistance	DIN EN 60947-5-2	1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance	DIN EN 60947-5-2	30 g 6 shocks / 11 ms half-sine (x,y,z)
MTTF	[Years]	1059

Mechanical data

Mounting		non-flush mountable
Housing materials		PBT; PC; POM
Weight	[kg]	0.026

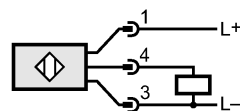
Displays / operating elements

Output status indication	LED	yellow
Operation	LED	green
Setting aid	LED	green

Electrical connection

Connection		M12 connector
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Wiring



4: OUT / IO-Link

Accessories

Accessories (included)		2 lock nuts
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Remarks

Pack quantity	[piece]	1
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