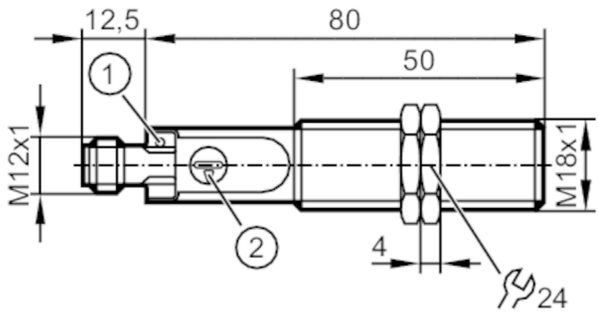
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KG5308

Capacitive sensor

KG-3150NBNKG/SL/1P/US/IO



1 LED yellow switching status
2 potentiometer Sensing range

Product characteristics		
Electrical design		NPN
Output function		normally closed
Sensing range	[mm]	0.5...30
Communication interface		IO-Link
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 92.5
Application		
Medium temperature	[°C]	-25...110
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 22
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		NPN
Output function		normally closed
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	30
Short-circuit proof		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	0.5...30
Sensing range adjustable		yes
Factory setting sensing range	[mm]	15
Real sensing range Sr	[mm]	15 ± 10 %
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15

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Switch point drift [% of Sr]		-15...15
Interfaces		
Communication interface		IO-Link
Transmission 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 type		A
Min. process cycle time [ms]		20
IO-Link functions (acyclical)		application specific tag; operating hours counter; normally open / normally closed (configurable); PNP / NPN (parametrierbar); switch point setting; Hysteresis
Operating conditions		
Ambient temperature [°C]		-25...80
Protection		IP 65; IP 67; IP 69K
Tests / approvals		
EMC	EN 61000-4-2	8 kV AD / 4 kV CD
	EN 61000-4-3	10 V/m
	EN 61000-4-4	2 kV
	EN 61000-4-6	10 V
	EN 55011	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]		1204
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	D003
	File number UL	E174191
Mechanical data		
Weight [g]		26.2
Housing		threaded type
Mounting		non-flush mountable
Dimensions [mm]		M18 x 1 / L = 92.5
Thread designation		M18 x 1
Materials		PBT; PC; POM
Tightening torque [Nm]		8
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

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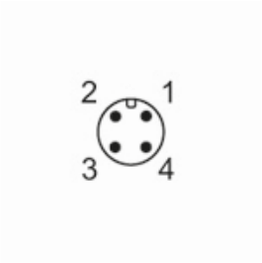
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Capacitive sensor

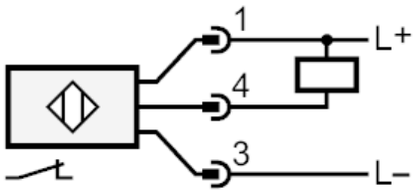
KG-3150NBNKG/SL/1P/US/IO

Electrical connection - plug

Connector: 1 x M12; coding: A



Connection



4: OUT / IO-Link