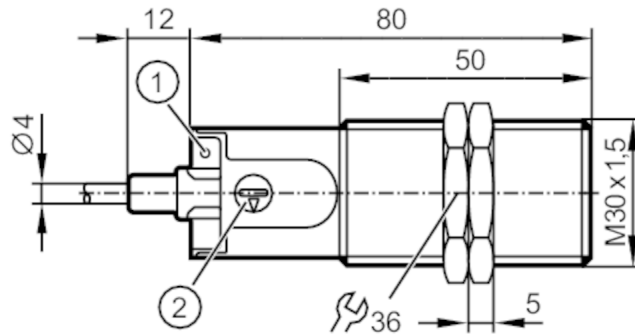


# KI5302



## Capacitive sensor

KI-3250NBNKG/SL/1P/IO



- 1 LED yellow switching status
- 2 potentiometer Sensing range



### Product characteristics

Electrical design	NPN
Output function	normally closed
Sensing range [mm]	0.5...40
Communication interface	IO-Link
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 92

### Application

Medium temperature [°C]	-25...110
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### 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]	40
Short-circuit protection	yes
Overload protection	yes

### Detection zone

Sensing range [mm]	0.5...40
Sensing range adjustable	yes
Factory setting sensing range [mm]	25
Real sensing range Sr [mm]	25 ± 10 %

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## Capacitive sensor

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Accuracy / deviations		
Hysteresis	[% of Sr]	1...15
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
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67; IP 69K
Tests / approvals		
EMC	EN 61000-4-2	30 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]	896.74
UL approval	UL Approval no.	D002
Mechanical data		
Weight	[g]	97
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 92
Thread designation		M30 x 1.5
Materials		PBT; PC; POM
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

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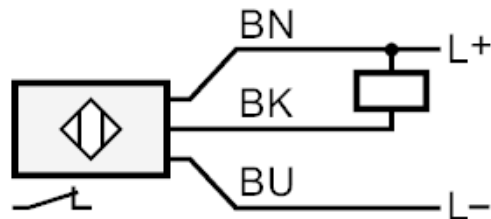
## Capacitive sensor

KI-3250NBNKG/SL/1P/IO

### Electrical connection

Cable: 2 m, PUR, Ø 4 mm; 3 x 0.34 mm<sup>2</sup>

### Connection



BK: OUT / IO-Link

Core colours :

BN = brown

BU = blue

BK = black