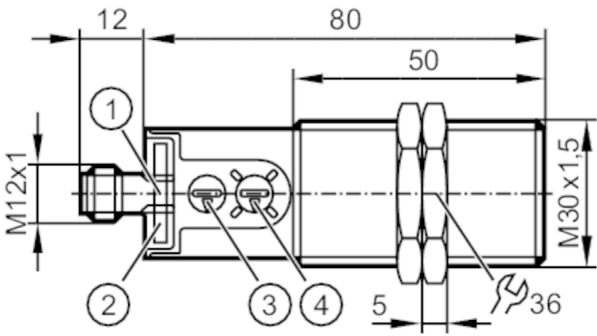




Capacitive sensor

KI-3250NFPKG/PL/2P/US/IO



- 1 LED yellow switching status
- 2 LED green signal
- 3 potentiometer Sensing range
- 4 potentiometer Switching function



| Product characteristics | | |
|---|------|---|
| Electrical design | | PNP |
| Output function | | normally open / normally closed; (selectable) |
| Sensing range | [mm] | 0.5...40 |
| Communication interface | | IO-Link |
| Housing | | threaded type |
| Dimensions | [mm] | M30 x 1.5 / L = 92 |
| Application | | |
| Special feature | | Optical setting aid |
| 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 | | 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] | 30 |
| 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 % |



Capacitive sensor

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| Accuracy / deviations | | |
|-------------------------------|---|---|
| Hysteresis | [% of Sr] | 1...15 |
| Switch point drift | [% of Sr] | -10...10 |
| 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 | 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] | 767.68 |
| UL approval | Ta | -25...60 °C |
| | Enclosure type | Type 1 |
| | power supply | Limited Voltage/Current |
| | UL Approval no. | D001 |
| | File number UL | E174191 |
| Mechanical data | | |
| Weight | [g] | 53.8 |
| 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 |
| | operation | 1 x LED, green |
| | setting aid | 1 x LED, green |
| Optical setting aid | yes | |

KI6000



Capacitive sensor

KI-3250NFPKG/PL/2P/US/IO

Accessories

Items supplied

lock nuts: 2

Remarks

Pack quantity

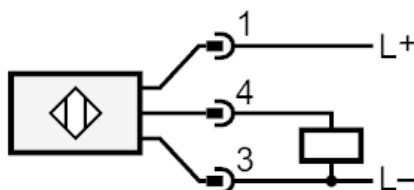
1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A



Connection



4: OUT / IO-Link