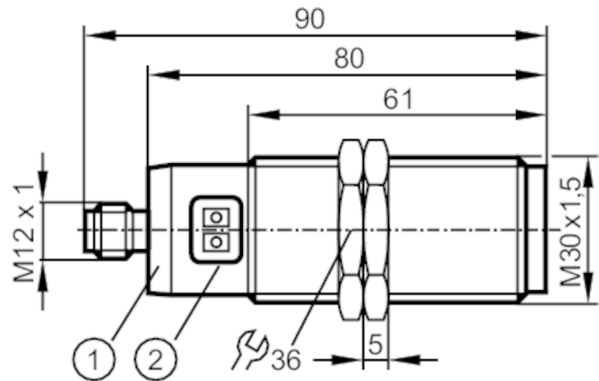




Capacitive sensor

KI-3200NFPKGP2T/US



- 1 LED ring
- 2 Programming buttons



| Product characteristics                         |           |                                      |
|-------------------------------------------------|-----------|--------------------------------------|
| Electrical design                               |           | PNP                                  |
| Output function                                 |           | normally open / closed; (selectable) |
| Sensing range                                   | [mm]      | 20                                   |
| Communication interface                         |           | IO-Link                              |
| Housing                                         |           | Threaded type                        |
| Dimensions                                      | [mm]      | M30 x 1.5 / L = 90                   |
| Electrical data                                 |           |                                      |
| Operating voltage                               | [V]       | 10...36 DC                           |
| Current consumption                             | [mA]      | < 20                                 |
| Protection class                                |           | II                                   |
| Reverse polarity protection                     |           | yes                                  |
| Measuring principle                             |           | capacitive                           |
| Outputs                                         |           |                                      |
| Electrical design                               |           | PNP                                  |
| Output function                                 |           | normally open / closed; (selectable) |
| Max. voltage drop switching output DC           | [V]       | 2.5                                  |
| Permanent current rating of switching output DC | [mA]      | 200                                  |
| Switching frequency DC                          | [Hz]      | 10                                   |
| Short-circuit proof                             |           | yes                                  |
| Overload protection                             |           | yes                                  |
| Monitoring range                                |           |                                      |
| Sensing range                                   | [mm]      | 20                                   |
| Accuracy / deviations                           |           |                                      |
| Hysteresis                                      | [% of Sr] | 1...15                               |

# KI5083



## Capacitive sensor

KI-3200NFPKGP2T/US

|                               |                                                  |                                                                                                    |  |
|-------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------|--|
| Switch-point drift            | [% of Sr]                                        | -20...20                                                                                           |  |
| Interfaces                    |                                                  |                                                                                                    |  |
| Communication interface       | IO-Link                                          |                                                                                                    |  |
| Transmission type             | COM1 (4,8 kBaud)                                 |                                                                                                    |  |
| IO-Link revision              | 1.1                                              |                                                                                                    |  |
| SDCI standard                 | IEC 61131-9 CDV                                  |                                                                                                    |  |
| Profiles                      | Smart Sensor                                     |                                                                                                    |  |
| SIO mode                      | yes                                              |                                                                                                    |  |
| Min. process cycle time       | [ms]                                             | 101                                                                                                |  |
| Supported DeviceIDs           | Type of operation                                | DeviceID                                                                                           |  |
|                               | default                                          | 388                                                                                                |  |
| Operating conditions          |                                                  |                                                                                                    |  |
| Ambient temperature           | [°C]                                             | -25...80                                                                                           |  |
| Note on ambient temperature   | temperature of the sensing face: -25...110 °C    |                                                                                                    |  |
| 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, vibration duration 5 min., 30 min. per axis with resonance or 55 Hz |  |
| Shock resistance              | EN 60068-2-27 Ea                                 | 30 g 6 shocks / 11 ms half-sine (x, y, z)                                                          |  |
| MTTF                          | [years]                                          | 663                                                                                                |  |
| Mechanical data               |                                                  |                                                                                                    |  |
| Weight                        | [g]                                              | 88                                                                                                 |  |
| Housing                       | Threaded type                                    |                                                                                                    |  |
| Mounting                      | non-flush mountable                              |                                                                                                    |  |
| Dimensions                    | [mm]                                             | M30 x 1.5 / L = 90                                                                                 |  |
| Thread designation            | M30 x 1.5                                        |                                                                                                    |  |
| Material                      | housing: PBT; Pushbuttons: TPE-U; LED window: PC |                                                                                                    |  |
| 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.                                           |                                                                                                    |  |

# KI5083



## Capacitive sensor

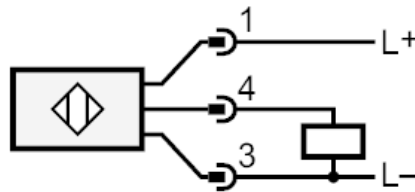
KI-3200NFPKGP2T/US

### Electrical connection - plug

Connector: 1 x M12; coding: A



### Connection



4: OUT / IO-Link