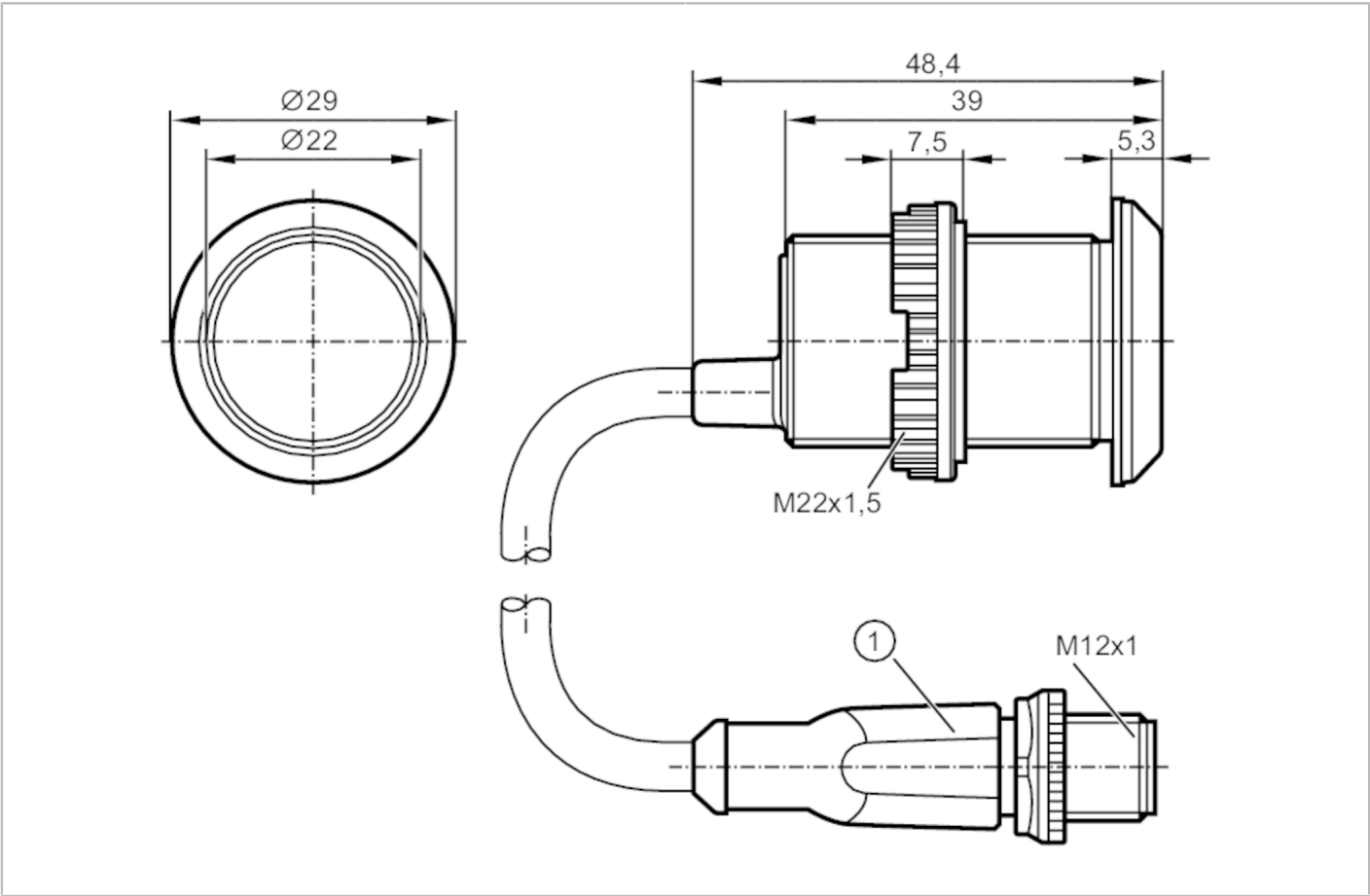


# KT6101



## Illuminated capacitive touch sensor

KTMEF-KMMFFKG/US/IO



| Product characteristics                         |      |                                          |
|-------------------------------------------------|------|------------------------------------------|
| Electrical design                               |      | PNP/NPN                                  |
| Output function                                 |      | normally open / closed                   |
| Communication interface                         |      | IO-Link                                  |
| Application                                     |      |                                          |
| Principle of operation                          |      | dynamic; (static; Bistable configurable) |
| Electrical data                                 |      |                                          |
| Operating voltage                               | [V]  | 10...30 DC                               |
| Current consumption                             | [mA] | 30                                       |
| Protection class                                |      | III                                      |
| Reverse polarity protection                     |      | yes                                      |
| Outputs                                         |      |                                          |
| Electrical design                               |      | PNP/NPN                                  |
| Output function                                 |      | normally open / closed                   |
| Permanent current rating of switching output DC | [mA] | 150                                      |
| Short-circuit protection                        |      | yes                                      |
| Overload protection                             |      | yes                                      |

# KT6101



## Illuminated capacitive touch sensor

KTMEF-KMMFFKG/US/IO

| Reaction times                |                                                                                                                                                             |                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Response time                 | [ms]                                                                                                                                                        | 35                                                              |
| Software / programming        |                                                                                                                                                             |                                                                 |
| Parameter setting options     | normally open / closed; PnP/nPn; statisch / dynamisch / bistabil / Ein-Ausschaltverzögerung; brightness; Aktivierungs- Operations- Inputfarbe; Sensitivität |                                                                 |
| Interfaces                    |                                                                                                                                                             |                                                                 |
| Communication interface       | IO-Link                                                                                                                                                     |                                                                 |
| Transmission type             | COM2 (38,4 kBaud)                                                                                                                                           |                                                                 |
| IO-Link revision              | 1.1                                                                                                                                                         |                                                                 |
| SDCI standard                 | IEC 61131-9                                                                                                                                                 |                                                                 |
| Profiles                      | Smart Sensor: Type 0 Generic Profiled Sensor; Identification and Diagnosis; Fixed Switching Signal Channel                                                  |                                                                 |
| SIO mode                      | yes                                                                                                                                                         |                                                                 |
| Required master port class    | A                                                                                                                                                           |                                                                 |
| Process data analog           | 1                                                                                                                                                           |                                                                 |
| Process data binary           | 1                                                                                                                                                           |                                                                 |
| Min. process cycle time       | [ms]                                                                                                                                                        | 3.5                                                             |
| Supported DeviceIDs           | Type of operation                                                                                                                                           | DeviceID                                                        |
|                               | default                                                                                                                                                     | 1002                                                            |
| Operating conditions          |                                                                                                                                                             |                                                                 |
| Ambient temperature           | [°C]                                                                                                                                                        | -20...80                                                        |
| Protection                    | IP 65; IP 67; IP 69K; (on the front)                                                                                                                        |                                                                 |
| Tests / approvals             |                                                                                                                                                             |                                                                 |
| EMC                           | IEC 61000-4                                                                                                                                                 |                                                                 |
| MTTF                          | [years]                                                                                                                                                     | 318                                                             |
| Mechanical data               |                                                                                                                                                             |                                                                 |
| Weight                        | [g]                                                                                                                                                         | 54                                                              |
| Material                      | PA 6.6-GF30 black; actuating surface: PA Grilamid TR 90UV                                                                                                   |                                                                 |
| Displays / operating elements |                                                                                                                                                             |                                                                 |
| Display                       |                                                                                                                                                             | 1 x LED, blue / green / red / magenta / yellow / white / orange |
|                               | preset                                                                                                                                                      |                                                                 |
|                               | Switching status                                                                                                                                            | green                                                           |
|                               | Power                                                                                                                                                       | -                                                               |
|                               | Function                                                                                                                                                    | red                                                             |
| Accessories                   |                                                                                                                                                             |                                                                 |
| Items supplied                | lock nuts: 1                                                                                                                                                |                                                                 |
|                               | Gasket: 1                                                                                                                                                   |                                                                 |
| Accessories (optional)        | Symbol disc                                                                                                                                                 |                                                                 |
| Remarks                       |                                                                                                                                                             |                                                                 |
| Pack quantity                 | 1 pcs.                                                                                                                                                      |                                                                 |

# KT6101



## Illuminated capacitive touch sensor

KTMEF-KMMFFKG/US/IO

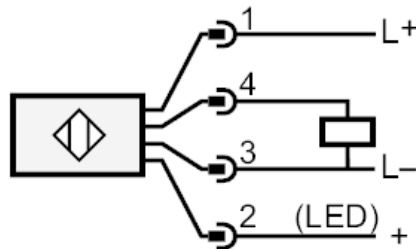
### Electrical connection - plug

Cable: 0.3 m, PUR

Connector: 1 x M12; coding: A



### Connection



Function display can be activated via PIN 2