

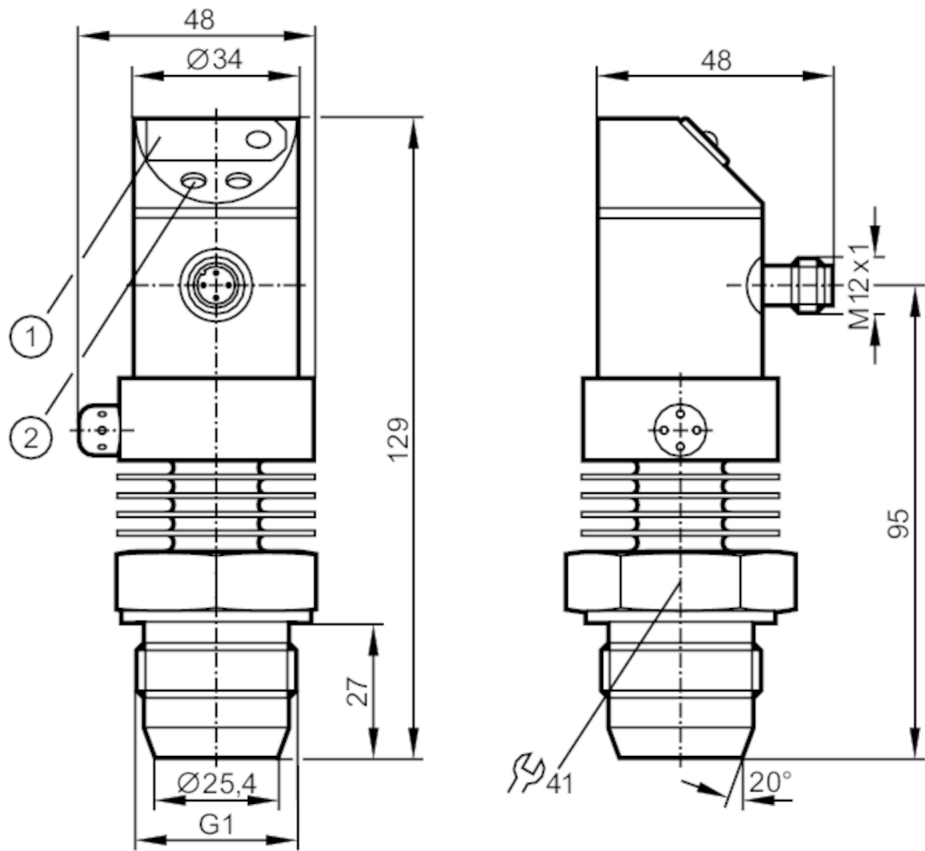
PI3658



Flush pressure sensor with display

PI-,25-REA01-KFPKG/US/ /P

Article no longer available - archive entry



- 1 7-segment LED display
- 2 Programming button



| Product characteristics       |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| Number of inputs and outputs  | Number of digital outputs: 1; Number of analog outputs: 1             |
| Measuring range [mbar]        | 0...250                                                               |
| Process connection            | threaded connection G 1 external thread                               |
| Application                   |                                                                       |
| System                        | gold-plated contacts                                                  |
| Application                   | flush mountable for the food and beverage industry                    |
| Installation                  | Freely rotatable housing 350°                                         |
| Media                         | viscous media and liquids with suspended particles; liquids and gases |
| Medium temperature [°C]       | -25...125; (145 max. 1h)                                              |
| Min. bursting pressure [mbar] | 30000                                                                 |
| Pressure rating [mbar]        | 10000                                                                 |
| Type of pressure              | relative pressure                                                     |
| No dead space                 | yes                                                                   |
| Electrical data               |                                                                       |
| Operating voltage [V]         | 20...30 DC                                                            |



## Flush pressure sensor with display

PI-,25-REA01-KFPKG/US/ /P

|                             |      |                 |
|-----------------------------|------|-----------------|
| Current consumption         | [mA] | < 60            |
| Min. insulation resistance  | [MΩ] | 100; (500 V DC) |
| Protection class            |      | III             |
| Reverse polarity protection |      | yes             |
| Power-on delay time         | [s]  | 0.2             |
| Integrated watchdog         |      | yes             |

### Inputs / outputs

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1; Number of analog outputs: 1 |
|------------------------------|-----------------------------------------------------------|

### Outputs

|                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| Total number of outputs                         | 2                                               |
| Output signal                                   | switching signal; analog signal; (configurable) |
| Electrical design                               | PNP                                             |
| Number of digital outputs                       | 1                                               |
| Max. voltage drop switching output DC           | 2                                               |
| Permanent current rating of switching output DC | [mA] 250                                        |
| Number of analog outputs                        | 1                                               |
| Analog current output                           | [mA] 4...20                                     |
| Max. load                                       | [Ω] 500                                         |
| Short-circuit protection                        | yes                                             |
| Type of short-circuit protection                | yes (non-latching)                              |
| Overload protection                             | yes                                             |

### Measuring/setting range

|                 |                |
|-----------------|----------------|
| Measuring range | [mbar] 0...250 |
| Set point SP    | [mbar] 2...250 |
| Reset point rP  | [mbar] 1...248 |
| In steps of     | [mbar] 1       |

### Accuracy / deviations

|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| Switch point accuracy<br>[% of the final value]     | < ± 1,5                                          |
| Repeatability<br>[% of the final value]             | < ± 0,25; (with temperature fluctuations < 10 K) |
| Characteristics deviation<br>[% of the final value] | < ± 1,0                                          |
| Temperature drift per 10 K                          | < ± 0.4                                          |

### Reaction times

|                                                                 |                     |                                                                                          |    |    |    |    |    |     |     |     |
|-----------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------|----|----|----|----|----|-----|-----|-----|
| Switching frequency for a given set response time of one output | Response time (dAP) | 3                                                                                        | 6  | 10 | 17 | 30 | 60 | 125 | 250 | 500 |
|                                                                 | Switching frequency | 170                                                                                      | 80 | 50 | 30 | 16 | 8  | 4   | 2   | 1   |
| Response time                                                   | [ms]                | at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 % |    |    |    |    |    |     |     |     |
| Delay time programmable dS, dr                                  | [s]                 | 0, 0,2,...10, 11,...50                                                                   |    |    |    |    |    |     |     |     |



## Flush pressure sensor with display

PI-,25-REA01-KFPKG/US/ /P

|                                  |      |   |
|----------------------------------|------|---|
| Max. response time analog output | [ms] | 3 |
|----------------------------------|------|---|

### Software / programming

|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| Adjustment of the switch point | Programming button                                                               |
| Parameter setting options      | hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping |

### Operating conditions

|                     |      |           |
|---------------------|------|-----------|
| Ambient temperature | [°C] | -25...80  |
| Storage temperature | [°C] | -40...100 |
| Protection          |      | IP 67     |

### Tests / approvals

|                      |                           |                     |
|----------------------|---------------------------|---------------------|
| EMC                  | EN 61000-4-2 ESD          | 4 kV CD / 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 | 10 V                |
| Shock resistance     | DIN IEC 68-2-27           | 50 g (11 ms)        |
| Vibration resistance | DIN IEC 68-2-6            | 20 g (10...2000 Hz) |

### Mechanical data

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| Material                 | stainless steel (1.4404 / 316L); PBT; PC; PA; EPDM/X; FKM |
| Materials (wetted parts) | stainless steel (1.4404 / 316L); ceramics; PTFE           |
| Min. pressure cycles     | 100 million                                               |
| Process connection       | threaded connection G 1 external thread                   |

### Displays / operating elements

|         |                  |                       |
|---------|------------------|-----------------------|
| Display | Switching status | LED, red              |
|         | Function display | 7-segment LED display |
|         | Measured values  | 7-segment LED display |

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



# PI3658



## Flush pressure sensor with display

PI-,25-REA01-KFPKG/US/ /P

### Connection

