

PN3320



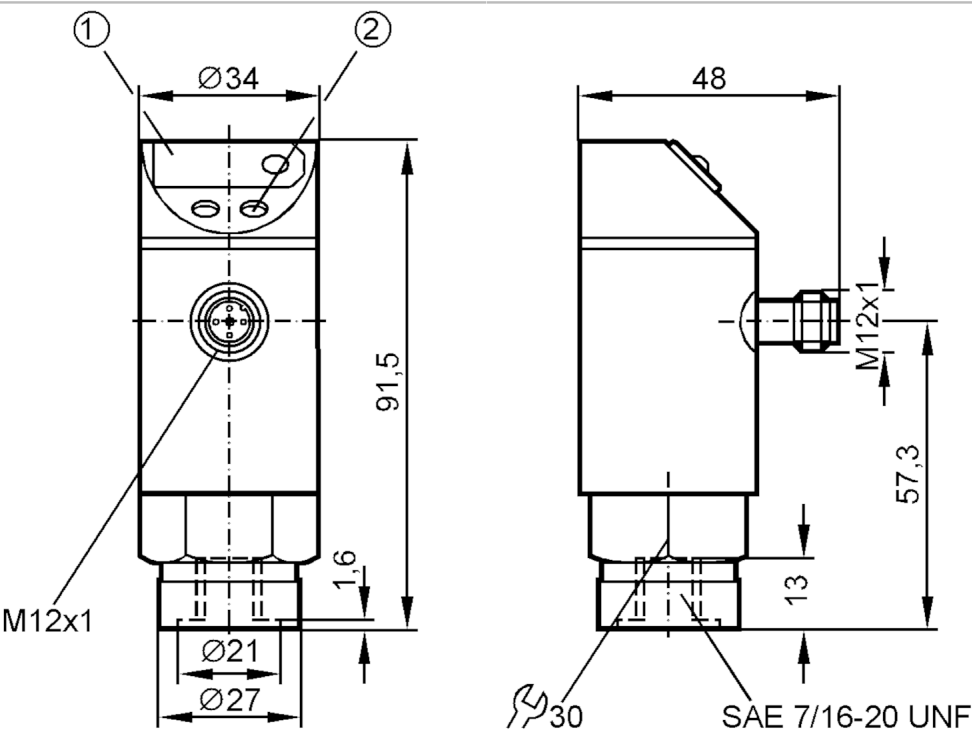
Pressure sensor with display

PN-600PSBU76-KFPKG/US/ IV

Article no longer available - archive entry

Alternative articles: PN3000

When selecting an alternative article and accessories please note that technical data may differ!



- 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 [psi] | 0...6000 |
| Process connection | threaded connection 7/16" - 20 UNF Internal thread |

Application

| | |
|------------------------------|--|
| Application | for industrial applications |
| Media | liquids and gases |
| Conditionally suitable for | For gaseous media the application is limited to max. 25 bar. |
| Medium temperature [°C] | -25...80 |
| Min. bursting pressure [psi] | 14000 |
| Pressure rating [psi] | 8500 |
| Type of pressure | relative pressure |

Electrical data

| | |
|-----------------------------|------------|
| Operating voltage [V] | 20...30 DC |
| Current consumption [mA] | < 60 |
| Reverse polarity protection | yes |
| Power-on delay time [s] | 0.2 |
| Integrated watchdog | yes |



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| 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 [V] | | | 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 [psi] | | | 0...6000 | | | | | | | | | |
| Set point SP [psi] | | | 60...6000 | | | | | | | | | |
| Reset point rP [psi] | | | 30...5970 | | | | | | | | | |
| In steps of [psi] | | | 30 | | | | | | | | | |
| Accuracy / deviations | | | | | | | | | | | | |
| Switch point accuracy [% of the final value] | | | < ± 1,5 | | | | | | | | | |
| Repeatability [% of the final value] | | | < ± 0,25; (with temperature fluctuations < 10 K) | | | | | | | | | |
| Characteristics deviation [% of the final value] | | | < ± 1,0 | | | | | | | | | |
| Temperature drift per 10 K | | | < ± 0.3 | | | | | | | | | |
| Reaction times | | | | | | | | | | | | |
| Switching frequency for a given set response time of one output | | | Response time [ms] | 3 | 6 | 10 | 17 | 30 | 60 | 125 | 250 | 500 |
| | | | Switching frequency [Hz] | 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 | | | | | | | | | |
| Max. response time analog output [ms] | | | 3 | | | | | | | | | |
| Software / programming | | | | | | | | | | | | |
| Adjustment of the switch point | | | Programming button | | | | | | | | | |
| Operating conditions | | | | | | | | | | | | |
| Ambient temperature [°C] | | | -25...80 | | | | | | | | | |

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PN-600PSBU76-KFPKG/US/ IV

| | | |
|---------------------|------|-----------|
| 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 | EPDM/X; FKM; NBR; PBT; PC; stainless steel (1.4301 / 304) |
| Materials (wetted parts) | FKM; ceramics; stainless steel (1.4305 / 303) |
| Min. pressure cycles | 100 million |
| Process connection | threaded connection 7/16" - 20 UNF Internal thread |

Displays / operating elements

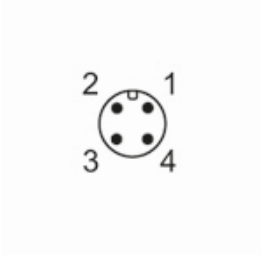
| | | |
|---------|------------------|-----------------------|
| Display | Switching status | LED, red |
| | Function display | 7-segment LED display |
| | Measured values | 7-segment LED display |

Remarks

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

Electrical connection

Connector: 1 x M12; coding: A



Connection

