

# At a glance

## Pressure sensors



### Pressure sensors – Reliability and flexibility on highest levels

Pressure is most commonly detected and monitored in applications of process and manufacturing industries. Equally complex are the demands on pressure sensors:

Whether applied in standard systems or exposed to extreme temperature changes, vibration, impacts or aggressive media: Each application requires a perfect solution in every respect. High-quality materials, flexible process connections, easy programming as well as highest accuracy and many display functions are therefore essential standards of electronic pressure measurement.



Pressure is not measured as a general physical property; a pressure value has rather a special reference. The positive and negative pressure is defined as the difference between the measured pressure and the atmospheric pressure. Therefore, most measuring devices require a reference terminal open to the atmosphere. This type of pressure is also described as relative pressure or gauge.

The absolute pressure however is related to a vacuum. In actual practice, the reference side of the measuring device is hermetically sealed. The pressure and temperature of gases are mainly regulated this way in industrial applications. With regard to differential pressure, the process pressure is connected to the reference side of the device. Filling levels, flow rates and leaks are detected by this means in systems.



Most electronic pressure sensors transduce the measured pressure in deformation force which is subsequently converted into an electrical signal by strain gauges, piezo-crystals, piezoresistive, capacitive or inductive measuring principles.

TURCK pressure sensors detect and measure absolute, relative pressure as reference pressures of liquids, gases and air in nearly all industrial applications and under the most diverse conditions. The **PK series** is especially designed for pneumatic and vacuum applications. Rugged, compact and at the same time lightweight designed, these sensors are made for handling and automation systems.

Ideally suited for demanding hydraulic and pneumatic systems are pressure sensors of the **PS series**. The devices are incorporated in a stainless steel housing and operate with a ceramic measuring cell. Different versions with switching and analog output as well as 4-digit 7-segment display are user friendly and easily integrated in your system. Open standards such as VDMA menu guide and IO-Link are also supported.

The **PT-series** features transmitter in robust cylindrical housings made of stainless steel, without display and with linear current or voltage output.

More information on the **PS series** on p. 456, **PK series** on p. 521 and **PT series** on p. 529.

# Our strengths...



## The full range of performance

The sensors of this series cover all important pressure ranges from -1...+600 bar with an accuracy of 0.5% f.s.. Bar, psi and further 12 standard pressure units can be selected for measurement. The 4-digit 7-segment LED display indicates the pressure status and makes programming more comfortable. The devices are available with two transistor switching

outputs or with one switching and one analog output. High EMC immunity and protection classes IP67/IP69K guarantee reliable operation, even under harsh conditions. All sensors are equipped with an IO-Link interface. Flexible integration and diagnostics is guaranteed, making the PS series a cost-effective solution.



## Clearly visible display

The 4-digit 7-segment display indicates the applied pressure during normal operation and is easily programmed. The sloped display allows the sensors to be mounted on top or in front according

to the position of the process connection. The read direction can be reversed by 180° degrees via software. Values are thus perfectly readable, even if the sensor is mounted horizontally.



## Flexible mounting

Inclined by 45° the display is well readable from any position and even from a great distance. After locking the pressure connection, the PS500 can be moved in any desired position because it is freely rotatable. Once the final position is ac-

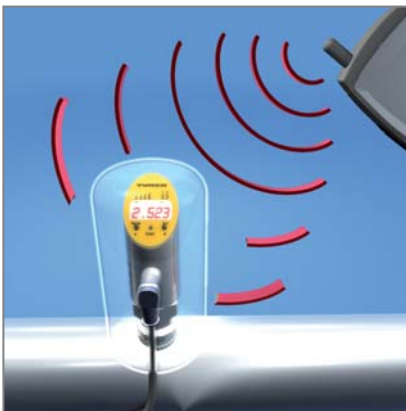
quired, the device is fixed in place with a second coupling nut. Special mounting aids are not required. With a diameter of only 34 mm, several sensors can be mounted side by side in confined spaces.



### Easy programming

Thanks to the user friendly menu guide parameters such as switch and release points, output type, analog range and various other special functions are easily taught. The PS sensors are programmed with the buttons MODE and SET. Tools

are not needed to view the parameter values. To avoid accidental changes of programmed data, the ENTER button for storing the values is recessed. The button can only be pressed with a pointed object, such as a ball pen for example.



### Rugged design

The sensor body, process and electrical connection of the PS series are made of stainless steel. Based on proven ceramic component technology, these shock and vibration proof sensors operate safely and reliably even in harsh environments. All sensors feature excellent EMC proper-

ties and are IP67 or IP69K protected. Even in an undesired exceptional situation, safety comes first: Should the measuring cell burst, a patented medium-stop system prevents the discharge of liquids up to a pressure of 2400 bar, depending on the medium temperature.

# Your advantages...

## Your advantages...



### High system availability

The PS series excels in excellent EMC properties and is IP67 rated. Sensor body pressure and electrical connection are made of stainless steel and are therefore highly reliable and rugged. Should the measuring cell burst, a patented medium-stop system prevents the discharge of liquids

up to a pressure of 2400 bar, depending on the medium temperature.

- Excellent EMC properties
- Protection against mechanical impacts is provided through a rugged design
- Short down-times through high system availability and short replacement times



### Extremely service-friendly

Due to the extremely flexible mounting options, user-friendly operation and high accuracy, the sensors offer you distinct and calculable advantages.

- Upper sensor part rotatable by 360° (PS500 series)

- Minimum maintenance effort through streamlined product range.
- Simple operation via two finger-operated pushbuttons
- Failsafe operation through a recessed ENTER button for the storage of values



### Efficient standardization

A single sensor replaces many „conventional“ types. Even if a PS sensor is applied to measure only half of its nominal pressure, it will operate highly accurate, as required by the machine engineering industry. Standardization helps to reduce the inventory which pays off for the customer.

- Only a few sensor versions are needed to cover a large range of applications
- Reduced training effort due to simple and failsafe operation
- High system safety achieved through a rugged design

# Advantages



## Maximum freedom

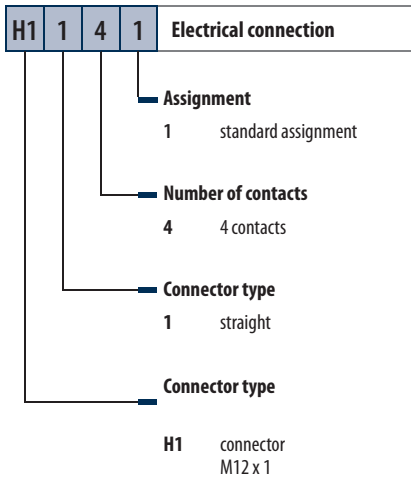
Due to many solutions achievable with only a few devices, the new sensors of the PS series offer maximum planning freedom, while minimizing the mounting efforts.

- Upper sensor part rotatable by 360°
- Display rotatable by 180°
- Sloped display by 45°
- Bright illuminated LED display legible at long ranges
- Highest accuracy, 0.5 % f.s.
- Two switching outputs or a combination of switching and analog output
- IO-Link communication
- VDMA menu guide (optional)

# Type code

| PS | 010V | Functional principle   | - | 5 | 01  | Mechanical version | - | LI2U   | PN | 8 | X | Electrical version | - |
|----|------|--|---|---|---|--------------------|---|--|----|---|---|--------------------|---|
|    |      | <b>Measuring range</b><br><b>01VR</b> Measuring range -1...0 bar g <sup>1)</sup><br><b>001R</b> Measuring range 0...1 bar g <sup>1)</sup><br><b>001V</b> Measuring range -1...1 bar g <sup>1)</sup><br><b>003V</b> Measuring range -1...2.5 bar g <sup>1)</sup><br><b>010V</b> Measuring range -1...10 bar g<br><b>016V</b> Measuring range -1...16 bar g<br><b>025V</b> Measuring range -1...25 bar g<br><b>040V</b> Measuring range -1...40 bar g<br><b>100R</b> Measuring range 0...100 bar g<br><b>250R</b> Measuring range 0...250 bar g<br><b>400R</b> Measuring range 0...400 bar g<br><b>600R</b> Measuring range 0...600 bar g <sup>2)</sup><br><b>001A</b> Measuring range 0...1 bar a <sup>1) 3)</sup><br><b>003A</b> Measuring range 0...2.5 bar a <sup>1) 3)</sup><br><b>010A</b> Measuring range 0...10 bar a <sup>1) 3)</sup><br><b>016A</b> Measuring range 0...16 bar a <sup>1) 3)</sup><br><b>025A</b> Measuring range 0...25 bar a <sup>1) 3)</sup> |   |   | <b>Pressure connection</b><br><b>01</b> G1/4" female thread<br><b>02</b> 1/4"-18NPT female thread<br><b>03</b> 1/4"-18NPT male thread<br><b>04</b> G1/4" male thread<br><b>05</b> 7/16" UNF male thread (only for design 6)<br><b>06</b> G3/4" male thread front-flush (only for design 6)<br><b>07</b> 1 1/2" Tri-Clamp (only for design 6)<br><b>08</b> G1/2" male thread manometer connection (only for design 5)<br><b>09</b> G1/2" male thread front-flush (only for design 6)<br><b>10</b> R 1/4" male thread<br><b>11</b> R 1/4" female thread |                    |   | <b>Indication</b><br><b>X...</b> LED display<br><b>Voltage range</b><br><b>8</b> 15 (18)...30 VDC<br><b>Output mode</b><br><b>PN</b> PNP/NPN output<br><b>Output function</b><br><b>2U</b> output 1: switching output<br>output 2: switching output<br><b>LUU</b> output 1: switching output<br>output 2: voltage output<br><b>LI2U</b> output 1: switching output<br>output 2: current/switching output, reprogrammable |    |   |   |                    |   |
|    |      | <b>Functional principle</b><br><b>PS</b> pressure sensor<br>Special types for oxygen applications available on request!  |   |   | <b>Design</b><br><b>3</b> adjustable, with display, non-rotatable sensor<br><b>5</b> adjustable, with display, rotatable sensor<br><b>6</b> adjustable, with display, non-rotatable sensor, diaphragm seal with front-flush   |                    |   |  |    |   |   |                    |   |

<sup>1)</sup> Not available for design/pressure connection 609  
<sup>2)</sup> Not available for design 600  
<sup>3)</sup> Not available for design 300



# Designs and variants

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**PS...-301**

G 1/4" female thread

**Mechanical connection**

connector, M12 x 1

**Electrical connection**

**Output 1 (PIN 4)**

switching output or IO-Link mode

**Output 2 (PIN 2)**

switching output  
analog or switching output  
analog output

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**PS...-302**

NPT1/4" - 18 female threads

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-303**

NPT 1/4" - 18 male thread

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-304**

G 1/4" male thread

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output



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**PS...-310**

**Mechanical connection**

R1/4" female thread per DIN 2999

**Electrical connection**

connector, M12 x 1

**Output 1 (PIN 4)**

switching output or IO-Link mode

**Output 2 (PIN 2)**

switching output  
analog or switching output  
analog output

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**PS...-311**

R1/4" female thread per DIN 2999

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-501**

G 1/4" female thread

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-502**

NPT1/4" - 18 female threads

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

# Designs and variants

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**PS...-503**

NPT 1/4" - 18 male thread

**Mechanical connection**

connector, M12 x 1

**Electrical connection**

**Output 1 (PIN 4)**

switching output or IO-Link mode

**Output 2 (PIN 2)**

switching output  
analog or switching output  
analog output

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**PS...-504**

G 1/4" male thread

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-505**

7/16-20 UNF

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-508**

G 1/2" male threaded manometer acc. to DIN 3852-E

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output



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**PS...-510**

R1/4" female thread per DIN 2999

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-511**

R1/4" female thread per DIN 2999

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-606**

G 3/4" front flush

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

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**PS...-609**

G 1/2" front flush

connector, M12 x 1

switching output or IO-Link mode

switching output  
analog or switching output  
analog output

## PS300 series – For hydraulic applications

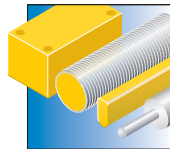


The PS300 series has been designed especially for hydraulic applications. The devices operate with a ceramic measuring cell. Available are versions with two switching outputs or one switching and one analog output. IO-Link communication is integrated as a standard. Highest process safety is achieved through a stainless steel housing, fully encapsulated electronics and protection class IP69K.

### Features

- IO-Link capable
- Measuring range -1...600 bar
- Fully encapsulated stainless steel housing
- Protection class IP69K
- VDMA menu guide (optional)
- Permanent indication of pressure (bar, psi, kPa, MPa, misc)
- Highest pressure resistance

### Properties



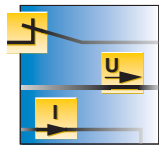
#### Design

Cylindrical design, non-rotatable, with display



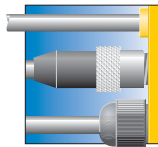
#### Measuring ranges

-1...600 bar relative pressure



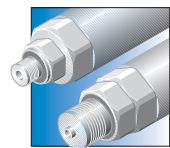
#### Electrical versions

IO-Link capable, dual-channel, switching, current or voltage output



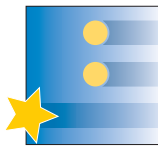
#### Electrical connections

4-pole M12 x 1 plug connection



#### Mechanical connections

G1/4\", 1/4\" NPT, R1/4\" male or female thread



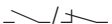
#### Special features

Failsafe 3-key operation, VDMA menu guide (optional), IP67, fully encapsulated electronics



## G1/4" – Female – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP69K / III   | <b>Temperature coefficient span <math>T_{k5}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | G 1/4" female thread                              |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS01VR-301-2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w095  | d458  |
| PS001R-301-2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w095  | d458  |
| PS001V-301-2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w095  | d458  |
| PS003V-301-2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w095  | d458  |
| PS010V-301-2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w095  | d458  |
| PS016V-301-2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w095  | d458  |
| PS025V-301-2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w095  | d458  |
| PS040V-301-2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w095  | d458  |
| PS100R-301-2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w095  | d458  |
| PS250R-301-2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w095  | d458  |
| PS400R-301-2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w095  | d458  |
| PS600R-301-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d458  |

## G1/4" – Female – 1 switching and 1 current output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | G 1/4" female thread                              |

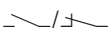
### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS01VR-301-LI2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w096 | d458 |
| PS001R-301-LI2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w096 | d458 |
| PS001V-301-LI2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w096 | d458 |
| PS003V-301-LI2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w096 | d458 |
| PS010V-301-LI2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w096 | d458 |
| PS016V-301-LI2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w096 | d458 |
| PS025V-301-LI2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w096 | d458 |
| PS040V-301-LI2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w096 | d458 |
| PS100R-301-LI2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w096 | d458 |
| PS250R-301-LI2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w096 | d458 |
| PS400R-301-LI2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w096 | d458 |
| PS600R-301-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096 | d458 |



## G1/4" – Female – 1 switching and 1 voltage output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | G 1/4" female thread                              |

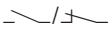
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure |  |  |
|--------------------------|-------------------|-------------------------|---|---|
| PS01VR-301-LUUPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w097  | d458  |
| PS001R-301-LUUPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w097  | d458  |
| PS001V-301-LUUPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w097  | d458  |
| PS003V-301-LUUPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w097  | d458  |
| PS010V-301-LUUPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w097  | d458  |
| PS016V-301-LUUPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w097  | d458  |
| PS025V-301-LUUPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w097  | d458  |
| PS040V-301-LUUPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w097  | d458  |
| PS100R-301-LUUPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w097  | d458  |
| PS250R-301-LUUPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w097  | d458  |
| PS400R-301-LUUPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w097  | d458  |
| PS600R-301-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097  | d458  |



## 1/4" NPT – Female – 2 switching outputs



### General data


|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP69K / III   | <b>Temperature coefficient span <math>T_{k5}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | NPT1/4" - 18 female threads                       |

### Types and data – selection table



| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS01VR-302-2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w095  | d459  |
| PS001R-302-2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w095  | d459  |
| PS001V-302-2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w095  | d459  |
| PS003V-302-2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w095  | d459  |
| PS010V-302-2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w095  | d459  |
| PS016V-302-2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w095  | d459  |
| PS025V-302-2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w095  | d459  |
| PS040V-302-2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w095  | d459  |
| PS100R-302-2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w095  | d459  |
| PS250R-302-2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w095  | d459  |
| PS400R-302-2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w095  | d459  |
| PS600R-302-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d459  |

## 1/4" NPT – Female – 1 switching and 1 current output



|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>General data</b>                  |   |  |   |
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | NPT1/4" - 18 female threads                       |

### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS01VR-302-LI2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w096  | d459  |
| PS001R-302-LI2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w096  | d459  |
| PS001V-302-LI2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w096  | d459  |
| PS003V-302-LI2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w096  | d459  |
| PS010V-302-LI2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w096  | d459  |
| PS016V-302-LI2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w096  | d459  |
| PS025V-302-LI2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w096  | d459  |
| PS040V-302-LI2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w096  | d459  |
| PS100R-302-LI2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w096  | d459  |
| PS250R-302-LI2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w096  | d459  |
| PS400R-302-LI2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w096  | d459  |
| PS600R-302-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096  | d459  |

## 1/4" NPT – Female – 1 switching and 1 voltage output



### General data

**Operating voltage** 18...30 VDC

**Protection type and class** IP69K / III

**Output 1 (PIN 4)** switching output or IO-Link mode

**Output 2 (PIN 2)** analogue output

**Output function** , pnp/npn

**Switching point accuracy** 0.5% of full scale

**Repeatability** 0.1% of full scale

**Switching frequency** 180 Hz

**Voltage output, programmable**  
0...10V/0...5V/  
1...6V/10...0V/  
5...0V/6...1V

**Accuracy (Lin. + Hys. + Rep.)** 0.5% of final value BSL

**Response time** 3 ms

**Temperature coefficient zero point  $T_{k0}$**  0.15% of full scale / 10 K

**Temperature coefficient span  $T_{kS}$**  0.15% of full scale / 10 K

**Medium temperature** -40...85 °C

**Ambient temperature** -40...80 °C

**Housing material** stainless-steel/  
plastic, 1.4305 (AISI 303)/PC  
**material pressure element** ceramics Al<sub>2</sub>O<sub>3</sub>

**Sealing material** FPM

**Electrical connection** connector, M12 x 1

**Mechanical connection** NPT1/4" - 18 female threads


### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS01VR-302-LUUPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w097 | d459 |
| PS001R-302-LUUPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w097 | d459 |
| PS001V-302-LUUPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w097 | d459 |
| PS003V-302-LUUPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w097 | d459 |
| PS010V-302-LUUPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w097 | d459 |
| PS016V-302-LUUPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w097 | d459 |
| PS025V-302-LUUPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w097 | d459 |
| PS040V-302-LUUPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w097 | d459 |
| PS100R-302-LUUPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w097 | d459 |
| PS250R-302-LUUPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w097 | d459 |
| PS400R-302-LUUPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w097 | d459 |
| PS600R-302-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d459 |



## 1/4" NPT – Male – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP69K / III   | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | NPT 1/4" - 18 male thread                         |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS01VR-303-2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w095  | d460  |
| PS001R-303-2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w095  | d460  |
| PS001V-303-2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w095  | d460  |
| PS003V-303-2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w095  | d460  |
| PS010V-303-2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w095  | d460  |
| PS016V-303-2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w095  | d460  |
| PS025V-303-2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w095  | d460  |
| PS040V-303-2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w095  | d460  |
| PS100R-303-2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w095  | d460  |
| PS250R-303-2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w095  | d460  |
| PS400R-303-2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w095  | d460  |
| PS600R-303-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d460  |

## 1/4" NPT – Male – 1 switching and 1 current output



### General data

|                                      |   |  |  |
|--------------------------------------|---|--|--|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms   |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K   |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K   |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C  |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C  |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC<br>ceramics Al <sub>2</sub> O <sub>3</sub> |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         |  |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM  |
| <b>Operating range</b>               | 4...20/ 0...20/ 20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | NPT 1/4" - 18 male thread  |

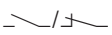
### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS01VR-303-LI2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w096 | d460 |
| PS001R-303-LI2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w096 | d460 |
| PS001V-303-LI2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w096 | d460 |
| PS003V-303-LI2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w096 | d460 |
| PS010V-303-LI2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w096 | d460 |
| PS016V-303-LI2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w096 | d460 |
| PS025V-303-LI2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w096 | d460 |
| PS040V-303-LI2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w096 | d460 |
| PS100R-303-LI2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w096 | d460 |
| PS250R-303-LI2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w096 | d460 |
| PS400R-303-LI2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w096 | d460 |
| PS600R-303-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096 | d460 |



## 1/4" NPT – Male – 1 switching and 1 voltage output



### General data


|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | NPT 1/4" - 18 male thread                         |

### Types and data – selection table



| Type                     | Measuring range   | Admissible overpressure |  |  |
|--------------------------|-------------------|-------------------------|---|---|
| PS01VR-303-LUUPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w097  | d460  |
| PS001R-303-LUUPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w097  | d460  |
| PS001V-303-LUUPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w097  | d460  |
| PS003V-303-LUUPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w097  | d460  |
| PS010V-303-LUUPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w097  | d460  |
| PS016V-303-LUUPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w097  | d460  |
| PS025V-303-LUUPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w097  | d460  |
| PS040V-303-LUUPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w097  | d460  |
| PS100R-303-LUUPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w097  | d460  |
| PS250R-303-LUUPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w097  | d460  |
| PS400R-303-LUUPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w097  | d460  |
| PS600R-303-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097  | d460  |

## G1/4" – Male – 2 switching outputs



|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>General data</b>              |   |   |   |
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP69K / III   | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | G 1/4" male thread                                |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS01VR-304-2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w095  | d461  |
| PS001R-304-2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w095  | d461  |
| PS001V-304-2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w095  | d461  |
| PS003V-304-2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w095  | d461  |
| PS010V-304-2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w095  | d461  |
| PS016V-304-2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w095  | d461  |
| PS025V-304-2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w095  | d461  |
| PS040V-304-2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w095  | d461  |
| PS100R-304-2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w095  | d461  |
| PS250R-304-2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w095  | d461  |
| PS400R-304-2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w095  | d461  |
| PS600R-304-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d461  |



## G1/4" – Male – 1 switching and 1 current output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | G 1/4" male thread                                |

### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS01VR-304-LI2UPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w096  | d461  |
| PS001R-304-LI2UPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w096  | d461  |
| PS001V-304-LI2UPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w096  | d461  |
| PS003V-304-LI2UPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w096  | d461  |
| PS010V-304-LI2UPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w096  | d461  |
| PS016V-304-LI2UPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w096  | d461  |
| PS025V-304-LI2UPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w096  | d461  |
| PS040V-304-LI2UPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w096  | d461  |
| PS100R-304-LI2UPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w096  | d461  |
| PS250R-304-LI2UPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w096  | d461  |
| PS400R-304-LI2UPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w096  | d461  |
| PS600R-304-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096  | d461  |

## G1/4" – Male – 1 switching and 1 voltage output



### General data

**Operating voltage** 18...30 VDC

**Protection type and class** IP69K / III

**Output 1 (PIN 4)** switching output or IO-Link mode

**Output 2 (PIN 2)** analogue output

**Output function** , pnp/npn

**Switching point accuracy** 0.5% of full scale

**Repeatability** 0.1% of full scale

**Switching frequency** 180 Hz

**Voltage output, programmable**  
0...10V/0...5V/  
1...6V/10...0V/  
5...0V/6...1V

**Accuracy (Lin. + Hys. + Rep.)** 0.5% of final value BSL

**Response time** 3 ms

**Temperature coefficient zero point  $T_{k0}$**  0.15% of full scale / 10 K

**Temperature coefficient span  $T_{kS}$**  0.15% of full scale / 10 K

**Medium temperature** -40...85 °C

**Ambient temperature** -40...80 °C

**Housing material** stainless-steel/  
plastic, 1.4305 (AISI 303)/PC

**material pressure element** ceramics  $Al_2O_3$

**Sealing material** FPM

**Electrical connection** connector, M12 x 1

**Mechanical connection** G 1/4" male thread

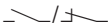
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS01VR-304-LUUPN8X-H1141 | -1...0 bar rel.   | 5.5 bar                 | w097 | d461 |
| PS001R-304-LUUPN8X-H1141 | 0...1 bar rel.    | 5.5 bar                 | w097 | d461 |
| PS001V-304-LUUPN8X-H1141 | -1...1 bar rel.   | 5.5 bar                 | w097 | d461 |
| PS003V-304-LUUPN8X-H1141 | -1...2.5 bar rel. | 12 bar                  | w097 | d461 |
| PS010V-304-LUUPN8X-H1141 | -1...10 bar rel.  | 50 bar                  | w097 | d461 |
| PS016V-304-LUUPN8X-H1141 | -1...16 bar rel.  | 80 bar                  | w097 | d461 |
| PS025V-304-LUUPN8X-H1141 | -1...25 bar rel.  | 120 bar                 | w097 | d461 |
| PS040V-304-LUUPN8X-H1141 | -1...40 bar rel.  | 200 bar                 | w097 | d461 |
| PS100R-304-LUUPN8X-H1141 | 0...100 bar rel.  | 450 bar                 | w097 | d461 |
| PS250R-304-LUUPN8X-H1141 | 0...250 bar rel.  | 600 bar                 | w097 | d461 |
| PS400R-304-LUUPN8X-H1141 | 0...400 bar rel.  | 800 bar                 | w097 | d461 |
| PS600R-304-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d461 |



## R1/4" – Male – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP69K / III   | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |


### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure |  w |  d |
|--------------------------|-------------------|-------------------------|---|---|
| PS01VR-310-2UPN8X-H11141 | -1...0 bar rel.   | 5.5 bar                 | w095  | d462  |
| PS001R-310-2UPN8X-H11141 | 0...1 bar rel.    | 5.5 bar                 | w095  | d462  |
| PS001V-310-2UPN8X-H11141 | -1...1 bar rel.   | 5.5 bar                 | w095  | d462  |
| PS003V-310-2UPN8X-H11141 | -1...2.5 bar rel. | 12 bar                  | w095  | d462  |
| PS010V-310-2UPN8X-H11141 | -1...10 bar rel.  | 50 bar                  | w095  | d462  |
| PS016V-310-2UPN8X-H11141 | -1...16 bar rel.  | 80 bar                  | w095  | d462  |
| PS025V-310-2UPN8X-H11141 | -1...25 bar rel.  | 120 bar                 | w095  | d462  |
| PS040V-310-2UPN8X-H11141 | -1...40 bar rel.  | 200 bar                 | w095  | d462  |
| PS100R-310-2UPN8X-H11141 | 0...100 bar rel.  | 450 bar                 | w095  | d462  |
| PS250R-310-2UPN8X-H11141 | 0...250 bar rel.  | 600 bar                 | w095  | d462  |
| PS400R-310-2UPN8X-H11141 | 0...400 bar rel.  | 800 bar                 | w095  | d462  |
| PS600R-310-2UPN8X-H11141 | 0...600 bar rel.  | 900 bar                 | w095  | d462  |

## R1/4" – Male – 1 switching and 1 current output



### General data

|                                      |   |  |  |
|--------------------------------------|---|--|--|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms   |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K   |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K   |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C  |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C  |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC<br>ceramics Al <sub>2</sub> O <sub>3</sub> |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         |  |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM  |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | R1/4" female thread per<br>DIN 2999  |

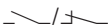
### Types and data – selection table

| Type                       | Measuring range   | Admissible overpressure | w    | d    |
|----------------------------|-------------------|-------------------------|------|------|
| PS01VR-310-LI2UPN8X-H11141 | -1...0 bar rel.   | 5.5 bar                 | w096 | d462 |
| PS001R-310-LI2UPN8X-H11141 | 0...1 bar rel.    | 5.5 bar                 | w096 | d462 |
| PS001V-310-LI2UPN8X-H11141 | -1...1 bar rel.   | 5.5 bar                 | w096 | d462 |
| PS003V-310-LI2UPN8X-H11141 | -1...2.5 bar rel. | 12 bar                  | w096 | d462 |
| PS010V-310-LI2UPN8X-H11141 | -1...10 bar rel.  | 50 bar                  | w096 | d462 |
| PS016V-310-LI2UPN8X-H11141 | -1...16 bar rel.  | 80 bar                  | w096 | d462 |
| PS025V-310-LI2UPN8X-H11141 | -1...25 bar rel.  | 120 bar                 | w096 | d462 |
| PS040V-310-LI2UPN8X-H11141 | -1...40 bar rel.  | 200 bar                 | w096 | d462 |
| PS100R-310-LI2UPN8X-H11141 | 0...100 bar rel.  | 450 bar                 | w096 | d462 |
| PS250R-310-LI2UPN8X-H11141 | 0...250 bar rel.  | 600 bar                 | w096 | d462 |
| PS400R-310-LI2UPN8X-H11141 | 0...400 bar rel.  | 800 bar                 | w096 | d462 |
| PS600R-310-LI2UPN8X-H11141 | 0...600 bar rel.  | 900 bar                 | w096 | d462 |



## R1/4" – Male – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |

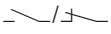
### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|--|--|
| PS01VR-310-LUUPN8X-H11141 | -1...0 bar rel.   | 5.5 bar                 | w097   | d462   |
| PS001R-310-LUUPN8X-H11141 | 0...1 bar rel.    | 5.5 bar                 | w097   | d462   |
| PS001V-310-LUUPN8X-H11141 | -1...1 bar rel.   | 5.5 bar                 | w097   | d462   |
| PS003V-310-LUUPN8X-H11141 | -1...2.5 bar rel. | 12 bar                  | w097   | d462   |
| PS010V-310-LUUPN8X-H11141 | -1...10 bar rel.  | 50 bar                  | w097   | d462   |
| PS016V-310-LUUPN8X-H11141 | -1...16 bar rel.  | 80 bar                  | w097   | d462   |
| PS025V-310-LUUPN8X-H11141 | -1...25 bar rel.  | 120 bar                 | w097   | d462   |
| PS040V-310-LUUPN8X-H11141 | -1...40 bar rel.  | 200 bar                 | w097   | d462   |
| PS100R-310-LUUPN8X-H11141 | 0...100 bar rel.  | 450 bar                 | w097   | d462   |
| PS250R-310-LUUPN8X-H11141 | 0...250 bar rel.  | 600 bar                 | w097   | d462   |
| PS400R-310-LUUPN8X-H11141 | 0...400 bar rel.  | 800 bar                 | w097   | d462   |
| PS600R-310-LUUPN8X-H11141 | 0...600 bar rel.  | 900 bar                 | w097   | d462   |

## R1/4" – Female – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP69K / III   | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |


### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS01VR-311-2UPN8X-H11141 | -1...0 bar rel.   | 5.5 bar                 | w095 | d463 |
| PS001R-311-2UPN8X-H11141 | 0...1 bar rel.    | 5.5 bar                 | w095 | d463 |
| PS001V-311-2UPN8X-H11141 | -1...1 bar rel.   | 5.5 bar                 | w095 | d463 |
| PS003V-311-2UPN8X-H11141 | -1...2.5 bar rel. | 12 bar                  | w095 | d463 |
| PS010V-311-2UPN8X-H11141 | -1...10 bar rel.  | 50 bar                  | w095 | d463 |
| PS016V-311-2UPN8X-H11141 | -1...16 bar rel.  | 80 bar                  | w095 | d463 |
| PS025V-311-2UPN8X-H11141 | -1...25 bar rel.  | 120 bar                 | w095 | d463 |
| PS040V-311-2UPN8X-H11141 | -1...40 bar rel.  | 200 bar                 | w095 | d463 |
| PS100R-311-2UPN8X-H11141 | 0...100 bar rel.  | 450 bar                 | w095 | d463 |
| PS250R-311-2UPN8X-H11141 | 0...250 bar rel.  | 600 bar                 | w095 | d463 |
| PS400R-311-2UPN8X-H11141 | 0...400 bar rel.  | 800 bar                 | w095 | d463 |
| PS600R-311-2UPN8X-H11141 | 0...600 bar rel.  | 900 bar                 | w095 | d463 |



## R1/4" – Female – 1 switching and 1 current output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |

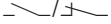
### Types and data – selection table

| Type                       | Measuring range   | Admissible overpressure |  w |  d |
|----------------------------|-------------------|-------------------------|---|---|
| PS01VR-311-LI2UPN8X-H11141 | -1...0 bar rel.   | 5.5 bar                 | w096  | d463  |
| PS001R-311-LI2UPN8X-H11141 | 0...1 bar rel.    | 5.5 bar                 | w096  | d463  |
| PS001V-311-LI2UPN8X-H11141 | -1...1 bar rel.   | 5.5 bar                 | w096  | d463  |
| PS003V-311-LI2UPN8X-H11141 | -1...2.5 bar rel. | 12 bar                  | w096  | d463  |
| PS010V-311-LI2UPN8X-H11141 | -1...10 bar rel.  | 50 bar                  | w096  | d463  |
| PS016V-311-LI2UPN8X-H11141 | -1...16 bar rel.  | 80 bar                  | w096  | d463  |
| PS025V-311-LI2UPN8X-H11141 | -1...25 bar rel.  | 120 bar                 | w096  | d463  |
| PS040V-311-LI2UPN8X-H11141 | -1...40 bar rel.  | 200 bar                 | w096  | d463  |
| PS100R-311-LI2UPN8X-H11141 | 0...100 bar rel.  | 450 bar                 | w096  | d463  |
| PS250R-311-LI2UPN8X-H11141 | 0...250 bar rel.  | 600 bar                 | w096  | d463  |
| PS400R-311-LI2UPN8X-H11141 | 0...400 bar rel.  | 800 bar                 | w096  | d463  |
| PS600R-311-LI2UPN8X-H11141 | 0...600 bar rel.  | 900 bar                 | w096  | d463  |

## R1/4" – Female – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP69K / III   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |

### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS01VR-311-LUUPN8X-H11141 | -1...0 bar rel.   | 5.5 bar                 | w097 | d463 |
| PS001R-311-LUUPN8X-H11141 | 0...1 bar rel.    | 5.5 bar                 | w097 | d463 |
| PS001V-311-LUUPN8X-H11141 | -1...1 bar rel.   | 5.5 bar                 | w097 | d463 |
| PS003V-311-LUUPN8X-H11141 | -1...2.5 bar rel. | 12 bar                  | w097 | d463 |
| PS010V-311-LUUPN8X-H11141 | -1...10 bar rel.  | 50 bar                  | w097 | d463 |
| PS016V-311-LUUPN8X-H11141 | -1...16 bar rel.  | 80 bar                  | w097 | d463 |
| PS025V-311-LUUPN8X-H11141 | -1...25 bar rel.  | 120 bar                 | w097 | d463 |
| PS040V-311-LUUPN8X-H11141 | -1...40 bar rel.  | 200 bar                 | w097 | d463 |
| PS100R-311-LUUPN8X-H11141 | 0...100 bar rel.  | 450 bar                 | w097 | d463 |
| PS250R-311-LUUPN8X-H11141 | 0...250 bar rel.  | 600 bar                 | w097 | d463 |
| PS400R-311-LUUPN8X-H11141 | 0...400 bar rel.  | 800 bar                 | w097 | d463 |
| PS600R-311-LUUPN8X-H11141 | 0...600 bar rel.  | 900 bar                 | w097 | d463 |



## PS500 series – For hydraulic and pneumatic applications

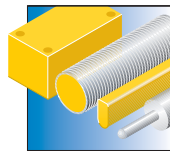


The PS500 sensors operate with ceramic measuring cells. Through pressure exerted on the ceramics a proportional signal is created and then electronically processed. Depending on the sensor version, the processed signal is either provided at a switching or an analog output. IO-Link communication is integrated as a standard. A rotatable sensor body, a large number of available thread types and an accuracy of 0.5% f.s. guarantee highest mounting flexibility and a safe integration in the process.

### Features

- IO-Link capable
- Sensor rotatable by 360°
- 4-digit 7-segment display
- Measuring range -1...600 bar relative pressure
- Measuring range 0...25 bar absolute pressure
- Stainless steel housing
- Permanent display of pressure (bar, psi, kPa, MPa, misc)

### Properties



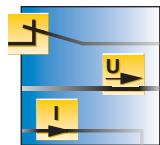
#### Design

Cylindrical design, rotatable by 360°, with display



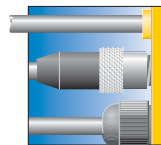
#### Measuring ranges

-1...600 bar relative and 0...25 bar absolute



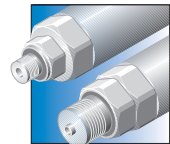
#### Electrical versions

IO-Link capable, dual-channel, switching, current or voltage output



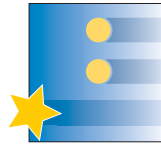
#### Electrical connections

4-pin M12 x 1 plug connection



#### Mechanical connections

G1/4", 1/4" NPT, R1/4" male or female thread, 7/16" UNF and G1/2" male thread



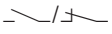
#### Special features

Fail-safe three-key operation, VDMA menu guide (optional), IP67



## G1/4" – Female – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | G 1/4" female thread                              |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS001R-501-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095  | d464  |
| PS001V-501-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095  | d464  |
| PS01VR-501-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095  | d464  |
| PS001A-501-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095  | d464  |
| PS003V-501-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095  | d464  |
| PS003A-501-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095  | d464  |
| PS010V-501-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095  | d464  |
| PS010A-501-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095  | d464  |
| PS016V-501-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095  | d464  |
| PS016A-501-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095  | d464  |
| PS025V-501-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095  | d464  |
| PS025A-501-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095  | d464  |
| PS040V-501-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095  | d464  |
| PS100R-501-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095  | d464  |
| PS250R-501-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095  | d464  |
| PS400R-501-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095  | d464  |
| PS600R-501-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d464  |

## G1/4" – Female – 1 switching and 1 current output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Operating range</b>               | 4...20/ 0...20/ 20...4/ 20... 0 mA  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | G 1/4" female thread                              |


### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS001A-501-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096 | d464 |
| PS001V-501-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096 | d464 |
| PS01VR-501-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096 | d464 |
| PS001R-501-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096 | d464 |
| PS003A-501-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096 | d464 |
| PS003V-501-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096 | d464 |
| PS010A-501-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096 | d464 |
| PS010V-501-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096 | d464 |
| PS016A-501-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096 | d464 |
| PS016V-501-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096 | d464 |
| PS025A-501-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096 | d464 |
| PS025V-501-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096 | d464 |
| PS040V-501-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096 | d464 |
| PS100R-501-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096 | d464 |
| PS250R-501-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096 | d464 |
| PS600R-501-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096 | d464 |
| PS400R-501-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096 | d464 |



## G1/4" – Female – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | G 1/4" female thread                              |

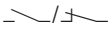
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure |  |  |
|--------------------------|-------------------|-------------------------|---|---|
| PS001A-501-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097  | d464  |
| PS001V-501-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097  | d464  |
| PS01VR-501-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097  | d464  |
| PS001R-501-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097  | d464  |
| PS003A-501-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097  | d464  |
| PS003V-501-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097  | d464  |
| PS010A-501-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097  | d464  |
| PS010V-501-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097  | d464  |
| PS016A-501-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097  | d464  |
| PS016V-501-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097  | d464  |
| PS025A-501-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097  | d464  |
| PS025V-501-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097  | d464  |
| PS040V-501-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097  | d464  |
| PS100R-501-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097  | d464  |
| PS250R-501-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097  | d464  |
| PS600R-501-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097  | d464  |
| PS400R-501-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097  | d464  |



## 1/4" NPT – Female – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | NPT1/4" - 18 female threads                       |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS001R-502-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095  | d465  |
| PS001V-502-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095  | d465  |
| PS01VR-502-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095  | d465  |
| PS001A-502-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095  | d465  |
| PS003V-502-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095  | d465  |
| PS003A-502-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095  | d465  |
| PS010V-502-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095  | d465  |
| PS010A-502-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095  | d465  |
| PS016V-502-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095  | d465  |
| PS016A-502-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095  | d465  |
| PS025V-502-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095  | d465  |
| PS025A-502-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095  | d465  |
| PS040V-502-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095  | d465  |
| PS100R-502-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095  | d465  |
| PS250R-502-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095  | d465  |
| PS400R-502-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095  | d465  |
| PS600R-502-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d465  |



## 1/4" NPT – Female – 1 switching and 1 current output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5 % of full scale   | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1 % of full scale   | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | NPT1/4" - 18 female threads                       |


### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS001A-502-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096  | d465  |
| PS001V-502-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096  | d465  |
| PS01VR-502-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096  | d465  |
| PS001R-502-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096  | d465  |
| PS003A-502-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096  | d465  |
| PS003V-502-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096  | d465  |
| PS010A-502-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096  | d465  |
| PS010V-502-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096  | d465  |
| PS016A-502-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096  | d465  |
| PS016V-502-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096  | d465  |
| PS025A-502-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096  | d465  |
| PS025V-502-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096  | d465  |
| PS040V-502-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096  | d465  |
| PS100R-502-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096  | d465  |
| PS250R-502-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096  | d465  |
| PS600R-502-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096  | d465  |
| PS400R-502-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096  | d465  |

## 1/4" NPT – Female – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | NPT1/4" - 18 female threads                       |

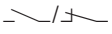
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS001A-502-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097 | d465 |
| PS001V-502-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097 | d465 |
| PS001R-502-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097 | d465 |
| PS01VR-502-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097 | d465 |
| PS003A-502-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097 | d465 |
| PS003V-502-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097 | d465 |
| PS010A-502-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097 | d465 |
| PS010V-502-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097 | d465 |
| PS016A-502-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097 | d465 |
| PS016V-502-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097 | d465 |
| PS025A-502-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097 | d465 |
| PS025V-502-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097 | d465 |
| PS040V-502-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097 | d465 |
| PS100R-502-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097 | d465 |
| PS250R-502-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097 | d465 |
| PS600R-502-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d465 |
| PS400R-502-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097 | d465 |



## 1/4" NPT – Male – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | NPT 1/4" - 18 male thread                         |

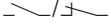
### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS001R-503-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095  | d466  |
| PS001V-503-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095  | d466  |
| PS01VR-503-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095  | d466  |
| PS001A-503-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095  | d466  |
| PS003V-503-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095  | d466  |
| PS003A-503-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095  | d466  |
| PS010V-503-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095  | d466  |
| PS010A-503-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095  | d466  |
| PS016V-503-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095  | d466  |
| PS016A-503-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095  | d466  |
| PS025V-503-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095  | d466  |
| PS025A-503-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095  | d466  |
| PS040V-503-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095  | d466  |
| PS100R-503-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095  | d466  |
| PS250R-503-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095  | d466  |
| PS400R-503-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095  | d466  |
| PS600R-503-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d466  |

## 1/4" NPT – Male – 1 switching and 1 current output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | NPT 1/4" - 18 male thread                         |


### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS001A-503-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096 | d466 |
| PS001V-503-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096 | d466 |
| PS01VR-503-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096 | d466 |
| PS001R-503-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096 | d466 |
| PS003A-503-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096 | d466 |
| PS003V-503-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096 | d466 |
| PS010A-503-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096 | d466 |
| PS010V-503-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096 | d466 |
| PS016A-503-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096 | d466 |
| PS016V-503-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096 | d466 |
| PS025A-503-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096 | d466 |
| PS025V-503-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096 | d466 |
| PS040V-503-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096 | d466 |
| PS100R-503-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096 | d466 |
| PS250R-503-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096 | d466 |
| PS600R-503-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096 | d466 |
| PS400R-503-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096 | d466 |



## 1/4" NPT – Male – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | NPT 1/4" - 18 male thread                         |

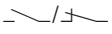
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure |  |  |
|--------------------------|-------------------|-------------------------|---|---|
| PS001A-503-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097  | d466  |
| PS001V-503-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097  | d466  |
| PS001R-503-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097  | d466  |
| PS01VR-503-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097  | d466  |
| PS003A-503-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097  | d466  |
| PS003V-503-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097  | d466  |
| PS010A-503-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097  | d466  |
| PS010V-503-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097  | d466  |
| PS016A-503-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097  | d466  |
| PS016V-503-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097  | d466  |
| PS025A-503-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097  | d466  |
| PS025V-503-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097  | d466  |
| PS040V-503-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097  | d466  |
| PS100R-503-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097  | d466  |
| PS250R-503-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097  | d466  |
| PS600R-503-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097  | d466  |
| PS400R-503-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097  | d466  |



## G1/4" – Male – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | G 1/4" male thread                                |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS001R-504-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095  | d467  |
| PS001V-504-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095  | d467  |
| PS01VR-504-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095  | d467  |
| PS001A-504-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095  | d467  |
| PS003V-504-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095  | d467  |
| PS003A-504-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095  | d467  |
| PS010V-504-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095  | d467  |
| PS010A-504-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095  | d467  |
| PS016V-504-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095  | d467  |
| PS016A-504-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095  | d467  |
| PS025V-504-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095  | d467  |
| PS025A-504-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095  | d467  |
| PS040V-504-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095  | d467  |
| PS100R-504-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095  | d467  |
| PS250R-504-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095  | d467  |
| PS400R-504-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095  | d467  |
| PS600R-504-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d467  |



## G1/4" – Male – 1 switching and 1 current output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | G 1/4" male thread                                |

### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS001A-504-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096  | d467  |
| PS001V-504-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096  | d467  |
| PS01VR-504-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096  | d467  |
| PS001R-504-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096  | d467  |
| PS003A-504-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096  | d467  |
| PS003V-504-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096  | d467  |
| PS010A-504-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096  | d467  |
| PS010V-504-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096  | d467  |
| PS016A-504-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096  | d467  |
| PS016V-504-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096  | d467  |
| PS025A-504-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096  | d467  |
| PS025V-504-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096  | d467  |
| PS040V-504-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096  | d467  |
| PS100R-504-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096  | d467  |
| PS250R-504-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096  | d467  |
| PS600R-504-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096  | d467  |
| PS400R-504-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096  | d467  |

## G1/4" – Male – 1 switching and 1 voltage output



### General data

**Operating voltage** 18...30 VDC

**Protection type and class** IP67 / III

**Output 1 (PIN 4)** switching output or IO-Link mode

**Output 2 (PIN 2)** analogue output

**Output function**  $\overline{\text{---}}/\text{---}$ , pnp/npn

**Switching point accuracy** 0.5% of full scale

**Repeatability** 0.1% of full scale

**Switching frequency** 180 Hz

**Voltage output, programmable** 0...10V/0...5V/  
1...6V/10...0V/  
5...0V/6...1V

**Accuracy (Lin. + Hys. + Rep.)** 0.5% of final value BSL

**Response time** 3 ms

**Temperature coefficient zero point  $T_{k0}$**  0.15% of full scale / 10 K

**Temperature coefficient span  $T_{kS}$**  0.15% of full scale / 10 K

**Medium temperature** -40...85 °C

**Ambient temperature** -40...80 °C

**Housing material** stainless-steel/  
plastic, 1.4305 (AISI 303)/PC  
**material pressure element** ceramics  $Al_2O_3$

**Sealing material** FPM

**Electrical connection** connector, M12 x 1

**Mechanical connection** G 1/4" male thread

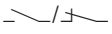
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS001A-504-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097 | d467 |
| PS001V-504-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097 | d467 |
| PS001R-504-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097 | d467 |
| PS01VR-504-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097 | d467 |
| PS003A-504-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097 | d467 |
| PS003V-504-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097 | d467 |
| PS010A-504-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097 | d467 |
| PS010V-504-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097 | d467 |
| PS016A-504-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097 | d467 |
| PS016V-504-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097 | d467 |
| PS025A-504-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097 | d467 |
| PS025V-504-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097 | d467 |
| PS040V-504-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097 | d467 |
| PS100R-504-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097 | d467 |
| PS250R-504-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097 | d467 |
| PS600R-504-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d467 |
| PS400R-504-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097 | d467 |



## 7/16" UNF – Male – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | 7/16-20 UNF                                       |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS001R-505-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095  | d468  |
| PS001V-505-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095  | d468  |
| PS01VR-505-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095  | d468  |
| PS001A-505-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095  | d468  |
| PS003V-505-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095  | d468  |
| PS003A-505-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095  | d468  |
| PS010V-505-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095  | d468  |
| PS010A-505-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095  | d468  |
| PS016V-505-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095  | d468  |
| PS016A-505-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095  | d468  |
| PS025V-505-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095  | d468  |
| PS025A-505-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095  | d468  |
| PS040V-505-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095  | d468  |
| PS100R-505-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095  | d468  |
| PS250R-505-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095  | d468  |
| PS400R-505-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095  | d468  |
| PS600R-505-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095  | d468  |

## 7/16" UNF – Male – 1 switching and 1 current output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | 7/16-20 UNF                                       |


### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS001A-505-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096 | d468 |
| PS001V-505-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096 | d468 |
| PS001R-505-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096 | d468 |
| PS01VR-505-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096 | d468 |
| PS003A-505-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096 | d468 |
| PS003V-505-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096 | d468 |
| PS010A-505-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096 | d468 |
| PS016A-505-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096 | d468 |
| PS016V-505-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096 | d468 |
| PS025A-505-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096 | d468 |
| PS025V-505-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096 | d468 |
| PS040V-505-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096 | d468 |
| PS100R-505-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096 | d468 |
| PS250R-505-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096 | d468 |
| PS600R-505-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096 | d468 |
| PS400R-505-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096 | d468 |

## 7/16" UNF – Male – 1 switching and 1 voltage output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | 7/16-20 UNF                                       |

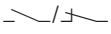
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS01VR-505-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097 | d468 |
| PS001R-505-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097 | d468 |
| PS001V-505-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097 | d468 |
| PS001A-505-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097 | d468 |
| PS003V-505-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097 | d468 |
| PS003A-505-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097 | d468 |
| PS010V-505-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097 | d468 |
| PS010A-505-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097 | d468 |
| PS016V-505-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097 | d468 |
| PS016A-505-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097 | d468 |
| PS025V-505-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097 | d468 |
| PS025A-505-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097 | d468 |
| PS040V-505-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097 | d468 |
| PS100R-505-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097 | d468 |
| PS250R-505-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097 | d468 |
| PS400R-505-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097 | d468 |
| PS600R-505-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d468 |

## G1/2" – Male – Manometer connection – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{k5}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics $Al_2O_3$                                |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | G 1/2" male threaded manometer acc. to DIN 3852-E |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure | w    | d    |
|-------------------------|-------------------|-------------------------|------|------|
| PS001R-508-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095 | d469 |
| PS001V-508-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095 | d469 |
| PS01VR-508-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095 | d469 |
| PS001A-508-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095 | d469 |
| PS003V-508-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095 | d469 |
| PS003A-508-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095 | d469 |
| PS010V-508-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095 | d469 |
| PS010A-508-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095 | d469 |
| PS016V-508-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095 | d469 |
| PS016A-508-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095 | d469 |
| PS025V-508-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095 | d469 |
| PS025A-508-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095 | d469 |
| PS040V-508-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095 | d469 |
| PS100R-508-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095 | d469 |
| PS250R-508-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095 | d469 |
| PS400R-508-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095 | d469 |
| PS600R-508-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095 | d469 |



## G1/2" – Male – Manometer connection – 1 switching and 1 current output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{ks}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | G 1/2" male threaded manometer acc. to DIN 3852-E |

### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS001A-508-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096  | d469  |
| PS001V-508-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096  | d469  |
| PS01VR-508-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096  | d469  |
| PS001R-508-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096  | d469  |
| PS003A-508-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096  | d469  |
| PS003V-508-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096  | d469  |
| PS010A-508-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096  | d469  |
| PS010V-508-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096  | d469  |
| PS016A-508-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096  | d469  |
| PS016V-508-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096  | d469  |
| PS025A-508-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096  | d469  |
| PS025V-508-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096  | d469  |
| PS040V-508-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096  | d469  |
| PS100R-508-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096  | d469  |
| PS250R-508-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096  | d469  |
| PS600R-508-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096  | d469  |
| PS400R-508-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096  | d469  |

## G1/2" – Male – Manometer connection – 1 switching and 1 current output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K  |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode                    | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K  |
| <b>Output 2 (PIN 2)</b>              | analogue output                                     | <b>Medium temperature</b>                                     | -40...85 °C   |
| <b>Output function</b>               | , pnp/npn   | <b>Ambient temperature</b>                                    | -40...80 °C   |
| <b>Switching point accuracy</b>      | 0.5% of full scale                                  | <b>Housing material</b>                                       | stainless-steel<br>plastic, 1.4305 (AISI 303)/PC<br>ceramics Al <sub>2</sub> O <sub>3</sub> |
| <b>Repeatability</b>                 | 0.1% of full scale                                  | <b>material pressure element</b>                              |   |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V | <b>Electrical connection</b>                                  | connector, M12 x 1  |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL                             | <b>Mechanical connection</b>                                  | G 1/2" male threaded manometer acc. to DIN 3852-E   |

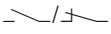
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS001A-508-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097 | d469 |
| PS001V-508-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097 | d469 |
| PS001R-508-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097 | d469 |
| PS01VR-508-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097 | d469 |
| PS003A-508-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097 | d469 |
| PS003V-508-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097 | d469 |
| PS010A-508-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097 | d469 |
| PS010V-508-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097 | d469 |
| PS016A-508-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097 | d469 |
| PS016V-508-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097 | d469 |
| PS025A-508-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097 | d469 |
| PS025V-508-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097 | d469 |
| PS040V-508-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097 | d469 |
| PS100R-508-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097 | d469 |
| PS250R-508-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097 | d469 |
| PS600R-508-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d469 |
| PS400R-508-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097 | d469 |

## R1/4" – Male – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |

### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure | w    | d    |
|-------------------------|-------------------|-------------------------|------|------|
| PS001R-510-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095 | d470 |
| PS001V-510-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095 | d470 |
| PS01VR-510-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095 | d470 |
| PS001A-510-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095 | d470 |
| PS003V-510-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095 | d470 |
| PS003A-510-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095 | d470 |
| PS010V-510-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095 | d470 |
| PS010A-510-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095 | d470 |
| PS016V-510-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095 | d470 |
| PS016A-510-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095 | d470 |
| PS025V-510-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095 | d470 |
| PS025A-510-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095 | d470 |
| PS040V-510-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095 | d470 |
| PS100R-510-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095 | d470 |
| PS250R-510-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095 | d470 |
| PS400R-510-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095 | d470 |
| PS600R-510-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095 | d470 |

## R1/4" – Male – 1 switching and 1 current output



### General data

|                                      |                                       |   |  |
|--------------------------------------|---------------------------------------|---|--|
| <b>Operating voltage</b>             | 18...30 VDC                           | <b>Response time</b>  | 3 ms   |
| <b>Protection type and class</b>     | IP67 / III                            | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K   |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode      | <b>Temperature coefficient span <math>T_{ks}</math></b>       | 0.15% of full scale / 10 K   |
| <b>Output 2 (PIN 2)</b>              | analog or switching output            | <b>Medium temperature</b>                                     | -40...85 °C  |
| <b>Output function</b>               | , pnp/npn                             | <b>Ambient temperature</b>                                    | -40...80 °C  |
| <b>Switching point accuracy</b>      | 0.5 % of full scale                   | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC<br>ceramics Al <sub>2</sub> O <sub>3</sub> |
| <b>Repeatability</b>                 | 0.1 % of full scale                   | <b>material pressure element</b>                              |  |
| <b>Switching frequency</b>           | 180 Hz                                | <b>Sealing material</b>                                       | FPM  |
| <b>Operating range</b>               | 4...20/ 0...20/ 20...4/<br>20... 0 mA | <b>Electrical connection</b>                                  | connector, M12 x 1   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL               | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999  |

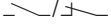
### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure | w    | d    |
|---------------------------|-------------------|-------------------------|------|------|
| PS001A-510-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096 | d470 |
| PS001V-510-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096 | d470 |
| PS001R-510-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096 | d470 |
| PS01VR-510-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096 | d470 |
| PS003A-510-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096 | d470 |
| PS003V-510-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096 | d470 |
| PS010A-510-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096 | d470 |
| PS010V-510-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096 | d470 |
| PS016A-510-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096 | d470 |
| PS016V-510-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096 | d470 |
| PS025A-510-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096 | d470 |
| PS025V-510-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096 | d470 |
| PS040V-510-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096 | d470 |
| PS100R-510-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096 | d470 |
| PS250R-510-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096 | d470 |
| PS600R-510-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096 | d470 |
| PS400R-510-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096 | d470 |

## R1/4" – Male – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |

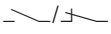
### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS01VR-510-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097 | d470 |
| PS001R-510-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097 | d470 |
| PS001V-510-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097 | d470 |
| PS001A-510-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097 | d470 |
| PS003V-510-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097 | d470 |
| PS003A-510-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097 | d470 |
| PS010V-510-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097 | d470 |
| PS010A-510-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097 | d470 |
| PS016V-510-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097 | d470 |
| PS016A-510-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097 | d470 |
| PS025V-510-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097 | d470 |
| PS025A-510-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097 | d470 |
| PS040V-510-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097 | d470 |
| PS100R-510-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097 | d470 |
| PS250R-510-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097 | d470 |
| PS400R-510-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097 | d470 |
| PS600R-510-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d470 |

## R1/4" – Female – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>material pressure element</b>                              | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Sealing material</b>                                       | FPM   |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Response time</b>             | 3 ms  | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure | w    | d    |
|-------------------------|-------------------|-------------------------|------|------|
| PS001R-511-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095 | d471 |
| PS001V-511-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095 | d471 |
| PS01VR-511-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095 | d471 |
| PS001A-511-2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w095 | d471 |
| PS003V-511-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095 | d471 |
| PS003A-511-2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w095 | d471 |
| PS010V-511-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095 | d471 |
| PS010A-511-2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w095 | d471 |
| PS016V-511-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095 | d471 |
| PS016A-511-2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w095 | d471 |
| PS025V-511-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095 | d471 |
| PS025A-511-2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w095 | d471 |
| PS040V-511-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095 | d471 |
| PS100R-511-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095 | d471 |
| PS250R-511-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095 | d471 |
| PS400R-511-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095 | d471 |
| PS600R-511-2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w095 | d471 |



## R1/4" – Female – 1 switching and 1 current output



### General data

|                                      |   |  |   |
|--------------------------------------|---|--|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>                                     | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point T<sub>k0</sub></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span T<sub>ks</sub></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analog or switching output  | <b>Medium temperature</b>                                | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                               | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                  | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                         | ceramics Al <sub>2</sub> O <sub>3</sub>           |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                  | FPM   |
| <b>Operating range</b>               | 4...20/0...20/20...4/<br>20...0 mA  | <b>Electrical connection</b>                             | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                             | R1/4" female thread per<br>DIN 2999               |


### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS001A-511-LI2UPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w096  | d471  |
| PS001V-511-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096  | d471  |
| PS001R-511-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096  | d471  |
| PS01VR-511-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096  | d471  |
| PS003A-511-LI2UPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w096  | d471  |
| PS003V-511-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096  | d471  |
| PS010A-511-LI2UPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w096  | d471  |
| PS010V-511-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096  | d471  |
| PS016A-511-LI2UPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w096  | d471  |
| PS016V-511-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096  | d471  |
| PS025A-511-LI2UPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w096  | d471  |
| PS025V-511-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096  | d471  |
| PS040V-511-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096  | d471  |
| PS100R-511-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096  | d471  |
| PS250R-511-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096  | d471  |
| PS600R-511-LI2UPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w096  | d471  |
| PS400R-511-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096  | d471  |

## R1/4" – Female – 1 switching and 1 voltage output



### General data

|                                      |   |   |   |
|--------------------------------------|---|---|---|
| <b>Operating voltage</b>             | 18...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b>     | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>              | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>              | analogue output   | <b>Medium temperature</b>                                     | -40...85 °C                                       |
| <b>Output function</b>               |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>      | 0.5% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>                 | 0.1% of full scale  | <b>material pressure element</b>                              | ceramics $Al_2O_3$                                |
| <b>Switching frequency</b>           | 180 Hz  | <b>Sealing material</b>                                       | FPM   |
| <b>Voltage output, programmable</b>  | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Accuracy (Lin. + Hys. + Rep.)</b> | 0.5% of final value BSL   | <b>Mechanical connection</b>                                  | R1/4" female thread per<br>DIN 2999               |

### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure | w    | d    |
|--------------------------|-------------------|-------------------------|------|------|
| PS01VR-511-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097 | d471 |
| PS001R-511-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097 | d471 |
| PS001V-511-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097 | d471 |
| PS001A-511-LUUPN8X-H1141 | 0...1 bar abs.    | 3 bar                   | w097 | d471 |
| PS003V-511-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097 | d471 |
| PS003A-511-LUUPN8X-H1141 | 0...2.5 bar abs.  | 7 bar                   | w097 | d471 |
| PS010V-511-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097 | d471 |
| PS010A-511-LUUPN8X-H1141 | 0...10 bar abs.   | 25 bar                  | w097 | d471 |
| PS016V-511-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097 | d471 |
| PS016A-511-LUUPN8X-H1141 | 0...16 bar abs.   | 40 bar                  | w097 | d471 |
| PS025V-511-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097 | d471 |
| PS025A-511-LUUPN8X-H1141 | 0...25 bar abs.   | 65 bar                  | w097 | d471 |
| PS040V-511-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097 | d471 |
| PS100R-511-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097 | d471 |
| PS250R-511-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097 | d471 |
| PS400R-511-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097 | d471 |
| PS600R-511-LUUPN8X-H1141 | 0...600 bar rel.  | 900 bar                 | w097 | d471 |



## PS600 series – For viscous media or contamination

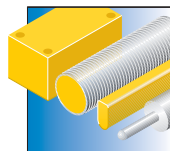


The PS600 series operates with a front-flush mounted diaphragm seal. Pressure applied on the stainless steel diaphragm is transmitted via the filling medium to the ceramic substrate of the measuring cell. Depending on the sensor type, the processed signal is either provided at a switching or an analog output. IO-Link is standard. Highest flexibility achieved with a front-flush or dead space free diaphragm and an accuracy of 0.5% f.s. guarantees safe integration in the process.

### Features

- IO-Link capable
- Front-flush and dead space free process connections
- 4-digit 7-segment display
- Measuring range -1...400 bar relative pressure
- Measuring range 0...25 bar absolute pressure
- Stainless steel housing
- Permanent display of pressure (bar, psi, kPa, MPa, misc)

### Properties



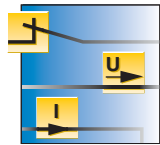
#### Design

Cylindrical design, non-rotatable, with display



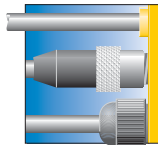
#### Measuring ranges

-1... 600 bar relative pressure



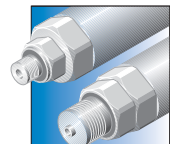
#### Electrical versions

IO-Link capable, dual-channel, switching, current or voltage output



#### Electrical connections

4-pole M12 x 1 plug connection



#### Mechanical connections

G1/2" and G3/4" front-flush process connections




#### Special features

Failsafe 3-key operation, VDMA menu guide (optional), IP67, fully encapsulated electronics



## G3/4" – Front-flush diaphragm – 2 switching outputs



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 15...30 VDC   | <b>Response time</b>  | 3 ms  |
| <b>Protection type and class</b> | IP67 / III  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Temperature coefficient span <math>T_{ks}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>          | switching output  | <b>Medium temperature</b>                                     | -10...85 °C                                       |
| <b>Output function</b>           |  , pnp/npn | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Switching point accuracy</b>  | 0.5 % of full scale   | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Repeatability</b>             | 0.1 % of full scale   | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Switching frequency</b>       | 180 Hz  | <b>Mechanical connection</b>                                  | G 3/4" front flush                                |


### Types and data – selection table

| Type                    | Measuring range   | Admissible overpressure |  |  |
|-------------------------|-------------------|-------------------------|---|---|
| PS01VR-606-2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w095  | d472  |
| PS001R-606-2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w095  | d472  |
| PS001V-606-2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w095  | d472  |
| PS003V-606-2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w095  | d472  |
| PS010V-606-2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w095  | d472  |
| PS016V-606-2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w095  | d472  |
| PS025V-606-2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w095  | d472  |
| PS040V-606-2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w095  | d472  |
| PS100R-606-2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w095  | d472  |
| PS250R-606-2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w095  | d472  |
| PS400R-606-2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w095  | d472  |



## G3/4" – Front-flush diaphragm – 1 switching and 1 current output



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 18...30 VDC   | <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.5% of final value BSL                           |
| <b>Protection type and class</b> | IP67 / III  | <b>Response time</b>  | 3 ms  |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>          | analog or switching output  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output function</b>           |  , pnp/npn | <b>Medium temperature</b>                                     | -10...85 °C                                       |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Operating range</b>           | 4...20/0...20/20...4/<br>20...0 mA  | <b>Mechanical connection</b>                                  | G 3/4" front flush                                |



### Types and data – selection table

| Type                      | Measuring range   | Admissible overpressure |  |  |
|---------------------------|-------------------|-------------------------|---|---|
| PS01VR-606-LI2UPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w096  | d472  |
| PS001R-606-LI2UPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w096  | d472  |
| PS001V-606-LI2UPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w096  | d472  |
| PS003V-606-LI2UPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w096  | d472  |
| PS010V-606-LI2UPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w096  | d472  |
| PS016V-606-LI2UPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w096  | d472  |
| PS025V-606-LI2UPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w096  | d472  |
| PS040V-606-LI2UPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w096  | d472  |
| PS100R-606-LI2UPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w096  | d472  |
| PS250R-606-LI2UPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w096  | d472  |
| PS400R-606-LI2UPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w096  | d472  |



## G3/4" – Front-flush diaphragm – 1 switching and 1 voltage output



### General data

|                                     |   |   |   |
|-------------------------------------|---|---|---|
| <b>Operating voltage</b>            | 18...30 VDC   | <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.5% of final value BSL                           |
| <b>Protection type and class</b>    | IP67 / III  | <b>Response time</b>  | 3 ms  |
| <b>Output 1 (PIN 4)</b>             | switching output or IO-Link mode  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>             | analogue output   | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output function</b>              |  /  , pnp/npn | <b>Medium temperature</b>                                     | -10...85 °C                                       |
| <b>Switching point accuracy</b>     | 0.5% of full scale  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Repeatability</b>                | 0.1% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching frequency</b>          | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Voltage output, programmable</b> | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Mechanical connection</b>                                  | G 3/4" front flush                                |

### Types and data – selection table

| Type                     | Measuring range   | Admissible overpressure |  |  |
|--------------------------|-------------------|-------------------------|---|---|
| PS001R-606-LUUPN8X-H1141 | 0...1 bar rel.    | 3 bar                   | w097  | d472  |
| PS01VR-606-LUUPN8X-H1141 | -1...0 bar rel.   | 3 bar                   | w097  | d472  |
| PS001V-606-LUUPN8X-H1141 | -1...1 bar rel.   | 3 bar                   | w097  | d472  |
| PS003V-606-LUUPN8X-H1141 | -1...2.5 bar rel. | 7 bar                   | w097  | d472  |
| PS010V-606-LUUPN8X-H1141 | -1...10 bar rel.  | 25 bar                  | w097  | d472  |
| PS016V-606-LUUPN8X-H1141 | -1...16 bar rel.  | 40 bar                  | w097  | d472  |
| PS025V-606-LUUPN8X-H1141 | -1...25 bar rel.  | 65 bar                  | w097  | d472  |
| PS040V-606-LUUPN8X-H1141 | -1...40 bar rel.  | 100 bar                 | w097  | d472  |
| PS100R-606-LUUPN8X-H1141 | 0...100 bar rel.  | 250 bar                 | w097  | d472  |
| PS250R-606-LUUPN8X-H1141 | 0...250 bar rel.  | 625 bar                 | w097  | d472  |
| PS400R-606-LUUPN8X-H1141 | 0...400 bar rel.  | 900 bar                 | w097  | d472  |

## G1/2" – Front-flush diaphragm – 2 switching outputs



### General data

**Operating voltage** 15...30 VDC

**Protection type and class** IP67 / III

**Output 1 (PIN 4)** switching output or IO-Link mode

**Output 2 (PIN 2)** switching output

**Output function**  , pnp/npn

**Switching point accuracy** 0.5 % of full scale

**Repeatability** 0.1 % of full scale

**Switching frequency** 180 Hz

**Response time** 3 ms

**Temperature coefficient zero point  $T_{k0}$**  0.15% of full scale / 10 K

**Temperature coefficient span  $T_{kS}$**  0.15% of full scale / 10 K

**Medium temperature** -10...85 °C



**Ambient temperature** -40...80 °C

**Housing material** stainless-steel/  
plastic, 1.4305 (AISI 303)/PC

**Electrical connection** connector, M12 x 1

**Mechanical connection** G 1/2" front flush


### Types and data – selection table

| Type                    | Measuring range  | Admissible overpressure |  |  |
|-------------------------|------------------|-------------------------|---|---|
| PS010V-609-2UPN8X-H1141 | -1...10 bar rel. | 25 bar                  | w095  | d473  |
| PS016V-609-2UPN8X-H1141 | -1...16 bar rel. | 40 bar                  | w095  | d473  |
| PS025V-609-2UPN8X-H1141 | -1...25 bar rel. | 65 bar                  | w095  | d473  |
| PS040V-609-2UPN8X-H1141 | -1...40 bar rel. | 100 bar                 | w095  | d473  |
| PS100R-609-2UPN8X-H1141 | 0...100 bar rel. | 250 bar                 | w095  | d473  |
| PS250R-609-2UPN8X-H1141 | 0...250 bar rel. | 625 bar                 | w095  | d473  |
| PS400R-609-2UPN8X-H1141 | 0...400 bar rel. | 900 bar                 | w095  | d473  |



## G1/2" – Front-flush diaphragm – 1 switching and 1 current output



### General data

|                                  |   |   |   |
|----------------------------------|---|---|---|
| <b>Operating voltage</b>         | 18...30 VDC   | <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.5% of final value BSL                           |
| <b>Protection type and class</b> | IP67 / III  | <b>Response time</b>  | 3 ms  |
| <b>Output 1 (PIN 4)</b>          | switching output or IO-Link mode  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>          | analog or switching output  | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output function</b>           |  , pnp/npn | <b>Medium temperature</b>                                     | -10...85 °C                                       |
| <b>Switching point accuracy</b>  | 0.5% of full scale  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Repeatability</b>             | 0.1% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching frequency</b>       | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Operating range</b>           | 4...20/0...20/20...4/<br>20...0 mA  | <b>Mechanical connection</b>                                  | G 1/2" front flush                                |


### Types and data – selection table

| Type                      | Measuring range  | Admissible overpressure |  w |  d |
|---------------------------|------------------|-------------------------|---|---|
| PS010V-609-LI2UPN8X-H1141 | -1...10 bar rel. | 25 bar                  | w096  | d473  |
| PS016V-609-LI2UPN8X-H1141 | -1...16 bar rel. | 40 bar                  | w096  | d473  |
| PS025V-609-LI2UPN8X-H1141 | -1...25 bar rel. | 65 bar                  | w096  | d473  |
| PS040V-609-LI2UPN8X-H1141 | -1...40 bar rel. | 100 bar                 | w096  | d473  |
| PS100R-609-LI2UPN8X-H1141 | 0...100 bar rel. | 250 bar                 | w096  | d473  |
| PS250R-609-LI2UPN8X-H1141 | 0...250 bar rel. | 625 bar                 | w096  | d473  |
| PS400R-609-LI2UPN8X-H1141 | 0...400 bar rel. | 900 bar                 | w096  | d473  |



## G1/2" – Front-flush diaphragm – 1 switching and 1 voltage output



### General data

|                                     |   |   |   |
|-------------------------------------|---|---|---|
| <b>Operating voltage</b>            | 18...30 VDC   | <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.5% of full scale BSL                            |
| <b>Protection type and class</b>    | IP67 / III  | <b>Response time</b>  | 3 ms  |
| <b>Output 1 (PIN 4)</b>             | switching output or IO-Link mode  | <b>Temperature coefficient zero point <math>T_{k0}</math></b> | 0.15% of full scale / 10 K                        |
| <b>Output 2 (PIN 2)</b>             | analogue output   | <b>Temperature coefficient span <math>T_{kS}</math></b>       | 0.15% of full scale / 10 K                        |
| <b>Output function</b>              |  , pnp/npn | <b>Medium temperature</b>                                     | -10...85 °C                                       |
| <b>Switching point accuracy</b>     | 0.5% of full scale  | <b>Ambient temperature</b>                                    | -40...80 °C                                       |
| <b>Repeatability</b>                | 0.1% of full scale  | <b>Housing material</b>                                       | stainless-steel/<br>plastic, 1.4305 (AISI 303)/PC |
| <b>Switching frequency</b>          | 180 Hz  | <b>Electrical connection</b>                                  | connector, M12 x 1                                |
| <b>Voltage output, programmable</b> | 0...10V/0...5V/<br>1...6V/10...0V/<br>5...0V/6...1V   | <b>Mechanical connection</b>                                  | G 1/2" front flush                                |

### Types and data – selection table

| Type                     | Measuring range  | Admissible overpressure |  |  |
|--------------------------|------------------|-------------------------|---|---|
| PS010V-609-LUUPN8X-H1141 | -1...10 bar rel. | 25 bar                  | w097  | d473  |
| PS016V-609-LUUPN8X-H1141 | -1...16 bar rel. | 40 bar                  | w097  | d473  |
| PS025V-609-LUUPN8X-H1141 | -1...25 bar rel. | 65 bar                  | w097  | d473  |
| PS040V-609-LUUPN8X-H1141 | -1...40 bar rel. | 100 bar                 | w097  | d473  |
| PS100R-609-LUUPN8X-H1141 | 0...100 bar rel. | 250 bar                 | w097  | d473  |
| PS250R-609-LUUPN8X-H1141 | 0...250 bar rel. | 625 bar                 | w097  | d473  |
| PS400R-609-LUUPN8X-H1141 | 0...400 bar rel. | 900 bar                 | w097  | d473  |

**w** Wiring diagrams on page 832 ff

**d** Dimension drawing on page 842 ff

**a** Accessories on page 772 ff





## PT-1 series – For temperatures up to +125 °C

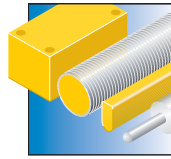


The PT1 pressure transmitters operate with ceramic measuring cells. They are cylindrically shaped, made of stainless steel and have no display. Depending on the type, the processed signal is output as 4...20 mA (2-wire) or 0...10 V (3-wire).

### Features

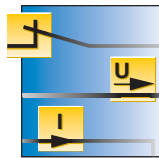
- Compact and rugged design
- Measuring range -1...600 bar relative pressure
- Temperature range - 40...+125°C
- 4...20 mA (2-wire) or 0...10 V (3-wire)
- Excellent EMC properties

### Properties



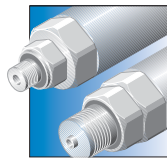
#### Design

Cylindrical design, non-rotatable, without display



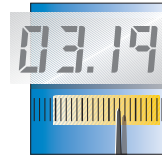
#### Electrical versions

Current output  
4...20 mA



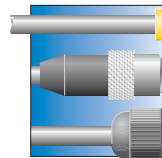
#### Mechanical connections

Female and male thread  
G1/4" and 1/4" NPT



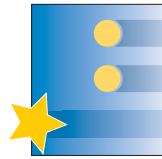
#### Measuring ranges

-1...600 bar relative pressure



#### Electrical connections

M12 x 1 plug connection, 3-pole



#### Special features

Media temperature  
-40...+125 °C, IP67

## G1/4" – Female – Current output (2-wire)



### General data

|   |                            |   |   |
|---|----------------------------|---|---|
| <b>Operating voltage</b>                                      | 8...33 VDC                 | <b>Temperature coefficient span <math>T_{KS}</math></b> | 0.15% of full scale / 10 K                    |
| <b>Protection type and class</b>                              | IP67 / III                 | <b>Medium temperature</b>                               | -40...125 °C                                  |
| <b>Operating range</b>  | 4...20 mA (2-wire)         | <b>Ambient temperature</b>                              | -40...85 °C                                   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.3% of final value BSL    | <b>Housing material</b>                                 | stainless-steel/plastic, 1.4305 (AISI 303)/PC |
| <b>Calibration accuracy 0-point</b>                           | 0.3% of final value        | <b>material pressure element</b>                        | ceramics Al <sub>2</sub> O <sub>3</sub>       |
| <b>Calibration accuracy, of final value</b>                   | 0.3% of final value        | <b>Sealing material</b>                                 | FPM   |
| <b>Response time</b>  | 3 ms                       | <b>Electrical connection</b>                            | connector, M12 x 1                            |
| <b>Temperature coefficient zero point <math>T_{K0}</math></b> | 0.15% of full scale / 10 K | <b>Mechanical connection</b>                            | G 1/4" female thread                          |

### Types and data – selection table

| Type                | Measuring range  | Admissible overpressure | w    | d    |
|---------------------|------------------|-------------------------|------|------|
| PT001R-11-LI3-H1131 | 0...1 bar rel.   | 3 bar                   | w098 | d474 |
| PT002R-11-LI3-H1131 | 0...1.6 bar rel. | 5 bar                   | w098 | d474 |
| PT003R-11-LI3-H1131 | 0...2.5 bar rel. | 7 bar                   | w098 | d474 |
| PT004R-11-LI3-H1131 | 0...4 bar rel.   | 12 bar                  | w098 | d474 |
| PT006R-11-LI3-H1131 | 0...6 bar rel.   | 15 bar                  | w098 | d474 |
| PT010R-11-LI3-H1131 | 0...10 bar rel.  | 25 bar                  | w098 | d474 |
| PT016R-11-LI3-H1131 | 0...16 bar rel.  | 40 bar                  | w098 | d474 |
| PT025R-11-LI3-H1131 | 0...25 bar rel.  | 65 bar                  | w098 | d474 |
| PT040R-11-LI3-H1131 | 0...40 bar rel.  | 100 bar                 | w098 | d474 |
| PT060R-11-LI3-H1131 | 0...60 bar rel.  | 150 bar                 | w098 | d474 |
| PT100R-11-LI3-H1131 | 0...100 bar rel. | 250 bar                 | w098 | d474 |
| PT160R-11-LI3-H1131 | 0...160 bar rel. | 400 bar                 | w098 | d474 |
| PT250R-11-LI3-H1131 | 0...250 bar rel. | 625 bar                 | w098 | d474 |
| PT400R-11-LI3-H1131 | 0...400 bar rel. | 900 bar                 | w098 | d474 |
| PT600R-11-LI3-H1131 | 0...600 bar rel. | 900 bar                 | w098 | d474 |

## G1/4" – Female – Voltage output (3-wire)



### General data

|   |                            |   |   |
|---|----------------------------|---|---|
| <b>Operating voltage</b>                                      | 11.4...33 VDC              | <b>Temperature coefficient span <math>T_{KS}</math></b> | 0.15% of full scale / 10 K                    |
| <b>Protection type and class</b>                              | IP67 / III                 | <b>Medium temperature</b>                               | -40...125 °C                                  |
| <b>Operating range</b>  | 0...10 V (3-wire)          | <b>Ambient temperature</b>                              | -40...85 °C                                   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.3% of final value BSL    | <b>Housing material</b>                                 | stainless-steel/plastic, 1.4305 (AISI 303)/PC |
| <b>Calibration accuracy 0-point</b>                           | 0.3% of final value        | <b>material pressure element</b>                        | ceramics $Al_2O_3$                            |
| <b>Calibration accuracy, of final value</b>                   | 0.3% of final value        | <b>Sealing material</b>                                 | FPM   |
| <b>Response time</b>  | 3 ms                       | <b>Electrical connection</b>                            | connector, M12 x 1                            |
| <b>Temperature coefficient zero point <math>T_{K0}</math></b> | 0.15% of full scale / 10 K | <b>Mechanical connection</b>                            | G 1/4" female thread                          |

### Types and data – selection table

| Type                | Measuring range  | Admissible overpressure | w    | d    |
|---------------------|------------------|-------------------------|------|------|
| PT001R-11-LU2-H1131 | 0...1 bar rel.   | 3 bar                   | w099 | d474 |
| PT01VR-11-LU2-H1131 | -1...0 bar rel.  | 3 bar                   | w099 | d474 |
| PT002R-11-LU2-H1131 | 0...1.6 bar rel. | 5 bar                   | w099 | d474 |
| PT003R-11-LU2-H1131 | 0...2.5 bar rel. | 7 bar                   | w099 | d474 |
| PT004R-11-LU2-H1131 | 0...4 bar rel.   | 12 bar                  | w099 | d474 |
| PT006R-11-LU2-H1131 | 0...6 bar rel.   | 15 bar                  | w099 | d474 |
| PT010R-11-LU2-H1131 | 0...10 bar rel.  | 25 bar                  | w099 | d474 |
| PT016R-11-LU2-H1131 | 0...16 bar rel.  | 40 bar                  | w099 | d474 |
| PT025R-11-LU2-H1131 | 0...25 bar rel.  | 65 bar                  | w099 | d474 |
| PT040R-11-LU2-H1131 | 0...40 bar rel.  | 100 bar                 | w099 | d474 |
| PT060R-11-LU2-H1131 | 0...60 bar rel.  | 150 bar                 | w099 | d474 |
| PT100R-11-LU2-H1131 | 0...100 bar rel. | 250 bar                 | w099 | d474 |
| PT160R-11-LU2-H1131 | 0...160 bar rel. | 400 bar                 | w099 | d474 |
| PT250R-11-LU2-H1131 | 0...250 bar rel. | 625 bar                 | w099 | d474 |
| PT400R-11-LU2-H1131 | 0...400 bar rel. | 900 bar                 | w099 | d474 |
| PT600R-11-LU2-H1131 | 0...600 bar rel. | 900 bar                 | w099 | d474 |

## 1/4" NPT – Male – Current output (2-wire)



### General data

|   |                            |   |   |
|---|----------------------------|---|---|
| <b>Operating voltage</b>                                      | 8...33 VDC                 | <b>Temperature coefficient span <math>T_{KS}</math></b> | 0.15% of full scale / 10 K                    |
| <b>Protection type and class</b>                              | IP67 / III                 | <b>Medium temperature</b>                               | -40...125 °C                                  |
| <b>Operating range</b>  | 4...20 mA (2-wire)         | <b>Ambient temperature</b>                              | -40...85 °C                                   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.3% of final value BSL    | <b>Housing material</b>                                 | stainless-steel/plastic, 1.4305 (AISI 303)/PC |
| <b>Calibration accuracy 0-point</b>                           | 0.3% of final value        | <b>material pressure element</b>                        | ceramics Al <sub>2</sub> O <sub>3</sub>       |
| <b>Calibration accuracy, of final value</b>                   | 0.3% of final value        | <b>Sealing material</b>                                 | FPM   |
| <b>Response time</b>  | 3 ms                       | <b>Electrical connection</b>                            | connector, M12 x 1                            |
| <b>Temperature coefficient zero point <math>T_{K0}</math></b> | 0.15% of full scale / 10 K | <b>Mechanical connection</b>                            | NPT 1/4" - 18 male thread                     |

### Types and data – selection table

| Type                | Measuring range  | Admissible overpressure | w    | d    |
|---------------------|------------------|-------------------------|------|------|
| PT004R-13-LI3-H1131 | 0...4 bar rel.   | 12 bar                  | w098 | d475 |
| PT010R-13-LI3-H1131 | 0...10 bar rel.  | 25 bar                  | w098 | d475 |
| PT016R-13-LI3-H1131 | 0...16 bar rel.  | 40 bar                  | w098 | d475 |
| PT025R-13-LI3-H1131 | 0...25 bar rel.  | 65 bar                  | w098 | d475 |
| PT040R-13-LI3-H1131 | 0...40 bar rel.  | 100 bar                 | w098 | d475 |
| PT060R-13-LI3-H1131 | 0...60 bar rel.  | 150 bar                 | w098 | d475 |
| PT100R-13-LI3-H1131 | 0...100 bar rel. | 250 bar                 | w098 | d475 |
| PT160R-13-LI3-H1131 | 0...160 bar rel. | 400 bar                 | w098 | d475 |
| PT250R-13-LI3-H1141 | 0...250 bar rel. | 625 bar                 | w098 | d475 |
| PT400R-13-LI3-H1141 | 0...400 bar rel. | 900 bar                 | w098 | d475 |
| PT600R-13-LI3-H1141 | 0...600 bar rel. | 900 bar                 | w098 | d475 |

## 1/4" NPT – Male – Voltage output (3-wire)



### General data

|   |                            |   |   |
|---|----------------------------|---|---|
| <b>Operating voltage</b>                                      | 11.4...33 VDC              | <b>Temperature coefficient span <math>T_{KS}</math></b> | 0.15% of full scale / 10 K                    |
| <b>Protection type and class</b>                              | IP67 / III                 | <b>Medium temperature</b>                               | -40...125 °C                                  |
| <b>Operating range</b>  | 0...10 V (3-wire)          | <b>Ambient temperature</b>                              | -40...85 °C                                   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.3% of final value BSL    | <b>Housing material</b>                                 | stainless-steel/plastic, 1.4305 (AISI 303)/PC |
| <b>Calibration accuracy 0-point</b>                           | 0.3% of final value        | <b>material pressure element</b>                        | ceramics Al <sub>2</sub> O <sub>3</sub>       |
| <b>Calibration accuracy, of final value</b>                   | 0.3% of final value        | <b>Sealing material</b>                                 | FPM   |
| <b>Response time</b>  | 3 ms                       | <b>Electrical connection</b>                            | connector, M12 x 1                            |
| <b>Temperature coefficient zero point <math>T_{K0}</math></b> | 0.15% of full scale / 10 K | <b>Mechanical connection</b>                            | NPT 1/4" - 18 male thread                     |

### Types and data – selection table

| Type                | Measuring range  | Admissible overpressure | w    | d    |
|---------------------|------------------|-------------------------|------|------|
| PT001R-13-LU2-H1141 | 0...1 bar rel.   | 3 bar                   | w099 | d475 |
| PT01VR-13-LU2-H1131 | -1...0 bar rel.  | 3 bar                   | w099 | d475 |
| PT002R-13-LU2-H1131 | 0...1.6 bar rel. | 5 bar                   | w099 | d475 |
| PT003R-13-LU2-H1131 | 0...2.5 bar rel. | 7 bar                   | w099 | d475 |
| PT004R-13-LU2-H1131 | 0...4 bar rel.   | 12 bar                  | w099 | d475 |
| PT006R-13-LU2-H1131 | 0...6 bar rel.   | 15 bar                  | w099 | d475 |
| PT010R-13-LU2-H1131 | 0...10 bar rel.  | 25 bar                  | w099 | d475 |
| PT060R-13-LU2-H1131 | 0...60 bar rel.  | 150 bar                 | w099 | d475 |
| PT100R-13-LU2-H1131 | 0...100 bar rel. | 250 bar                 | w099 | d475 |
| PT160R-13-LU2-H1131 | 0...160 bar rel. | 400 bar                 | w099 | d475 |
| PT250R-13-LU2-H1131 | 0...250 bar rel. | 625 bar                 | w099 | d475 |
| PT600R-13-LU2-H1131 | 0...600 bar rel. | 900 bar                 | w099 | d475 |
| PT400R-13-LU2-H1131 | 0...400 bar rel. | 900 bar                 | w099 | d475 |

## G1/4" – Male – Current output (2-wire)



### General data

|   |                            |   |   |
|---|----------------------------|---|---|
| <b>Operating voltage</b>                                      | 8...33 VDC                 | <b>Temperature coefficient span <math>T_{KS}</math></b> | 0.15% of full scale / 10 K                    |
| <b>Protection type and class</b>                              | IP67 / III                 | <b>Medium temperature</b>                               | -40...125 °C                                  |
| <b>Operating range</b>  | 4...20 mA (2-wire)         | <b>Ambient temperature</b>                              | -40...85 °C                                   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.3% of final value BSL    | <b>Housing material</b>                                 | stainless-steel/plastic, 1.4305 (AISI 303)/PC |
| <b>Calibration accuracy 0-point</b>                           | 0.3% of final value        | <b>material pressure element</b>                        | ceramics $Al_2O_3$                            |
| <b>Calibration accuracy, of final value</b>                   | 0.3% of final value        | <b>Sealing material</b>                                 | FPM   |
| <b>Response time</b>  | 3 ms                       | <b>Electrical connection</b>                            | connector, M12 x 1                            |
| <b>Temperature coefficient zero point <math>T_{K0}</math></b> | 0.15% of full scale / 10 K | <b>Mechanical connection</b>                            | G 1/4" male thread                            |

### Types and data – selection table

| Type                | Measuring range  | Admissible overpressure | w    | d    |
|---------------------|------------------|-------------------------|------|------|
| PT01VR-14-LI3-H1131 | -1...0 bar rel.  | 3 bar                   | w098 | d476 |
| PT001R-14-LI3-H1131 | 0...1 bar rel.   | 3 bar                   | w098 | d476 |
| PT002R-14-LI3-H1131 | 0...1.6 bar rel. | 5 bar                   | w098 | d476 |
| PT003R-14-LI3-H1131 | 0...2.5 bar rel. | 7 bar                   | w098 | d476 |
| PT004R-14-LI3-H1131 | 0...4 bar rel.   | 12 bar                  | w098 | d476 |
| PT006R-14-LI3-H1131 | 0...6 bar rel.   | 15 bar                  | w098 | d476 |
| PT010R-14-LI3-H1131 | 0...10 bar rel.  | 25 bar                  | w098 | d476 |
| PT016R-14-LI3-H1131 | 0...16 bar rel.  | 40 bar                  | w098 | d476 |
| PT025R-14-LI3-H1131 | 0...25 bar rel.  | 65 bar                  | w098 | d476 |
| PT040R-14-LI3-H1131 | 0...40 bar rel.  | 100 bar                 | w098 | d476 |
| PT060R-14-LI3-H1131 | 0...60 bar rel.  | 150 bar                 | w098 | d476 |
| PT100R-14-LI3-H1131 | 0...100 bar rel. | 250 bar                 | w098 | d476 |
| PT160R-14-LI3-H1131 | 0...160 bar rel. | 400 bar                 | w098 | d476 |
| PT250R-14-LI3-H1131 | 0...250 bar rel. | 625 bar                 | w098 | d476 |
| PT400R-14-LI3-H1131 | 0...400 bar rel. | 900 bar                 | w098 | d476 |
| PT600R-14-LI3-H1131 | 0...600 bar rel. | 900 bar                 | w098 | d476 |

## G1/4" – Male – Voltage output (3-wire)



### General data

|   |                            |   |   |
|---|----------------------------|---|---|
| <b>Operating voltage</b>                                      | 11.4...33 VDC              | <b>Temperature coefficient span <math>T_{KS}</math></b> | 0.15% of full scale / 10 K                    |
| <b>Protection type and class</b>                              | IP67 / III                 | <b>Medium temperature</b>                               | -40...125 °C                                  |
| <b>Operating range</b>  | 0...10 V (3-wire)          | <b>Ambient temperature</b>                              | -40...85 °C                                   |
| <b>Accuracy (Lin. + Hys. + Rep.)</b>                          | 0.3% of final value BSL    | <b>Housing material</b>                                 | stainless-steel/plastic, 1.4305 (AISI 303)/PC |
| <b>Calibration accuracy 0-point</b>                           | 0.3% of final value        | <b>material pressure element</b>                        | ceramics $Al_2O_3$                            |
| <b>Calibration accuracy, of final value</b>                   | 0.3% of final value        | <b>Sealing material</b>                                 | FPM   |
| <b>Response time</b>  | 3 ms                       | <b>Electrical connection</b>                            | connector, M12 x 1                            |
| <b>Temperature coefficient zero point <math>T_{K0}</math></b> | 0.15% of full scale / 10 K | <b>Mechanical connection</b>                            | G 1/4" male thread                            |

### Types and data – selection table

| Type                | Measuring range  | Admissible overpressure | w    | d    |
|---------------------|------------------|-------------------------|------|------|
| PT01VR-14-LU2-H1131 | -1...0 bar rel.  | 3 bar                   | w099 | d476 |
| PT001R-14-LU2-H1131 | 0...1 bar rel.   | 3 bar                   | w099 | d476 |
| PT002R-14-LU2-H1131 | 0...1.6 bar rel. | 5 bar                   | w099 | d476 |
| PT003R-14-LU2-H1131 | 0...2.5 bar rel. | 7 bar                   | w099 | d476 |
| PT004R-14-LU2-H1131 | 0...4 bar rel.   | 12 bar                  | w099 | d476 |
| PT006R-14-LU2-H1131 | 0...6 bar rel.   | 15 bar                  | w099 | d476 |
| PT010R-14-LU2-H1131 | 0...10 bar rel.  | 25 bar                  | w099 | d476 |
| PT016R-14-LU2-H1131 | 0...16 bar rel.  | 40 bar                  | w099 | d476 |
| PT025R-14-LU2-H1131 | 0...25 bar rel.  | 65 bar                  | w099 | d476 |
| PT040R-14-LU2-H1131 | 0...40 bar rel.  | 100 bar                 | w099 | d476 |
| PT060R-14-LU2-H1131 | 0...60 bar rel.  | 150 bar                 | w099 | d476 |
| PT100R-14-LU2-H1131 | 0...100 bar rel. | 250 bar                 | w099 | d476 |
| PT160R-14-LU2-H1131 | 0...160 bar rel. | 400 bar                 | w099 | d476 |
| PT250R-14-LU2-H1131 | 0...250 bar rel. | 625 bar                 | w099 | d476 |
| PT400R-14-LU2-H1131 | 0...400 bar rel. | 900 bar                 | w099 | d476 |
| PT600R-14-LU2-H1131 | 0...600 bar rel. | 900 bar                 | w099 | d476 |

**w** Wiring diagrams on page 832 ff

**d** Dimension drawings on page 842 ff

**a** Accessories on page 772 ff

## Accessories for pressure sensors

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The range of accessories comprises aids for mounting, operating and protecting pressure sensors of the PK and PS series. It also includes a heat sink to reduce high ambient temperatures.

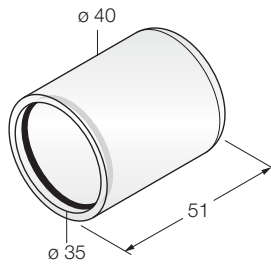
### Features

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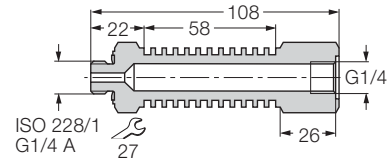
- Protective cap for the PS series
- Reduction of temperature for the PS and PT series
- Mounting accessories for the PK series

## PS series

**PTS-Cover**  
Protective cap



**PCS-G1/4A4**  
Heat sink



## PT series

**PCS-G1/4A4**  
Heat sink

