



# Pressure sensors – PK series



## Multifaceted pneumatic specialists

The PK pressure sensors are especially designed for pneumatic applications and are ideally suited for pick-and-place systems, labelling machines and hoists. The N version is manometer-shaped, features a display and a process connection on the back side. The P version has a rotatable, cylindrical body with display. The processed signal is made available as switching output. These sensors are only made for non-aggressive gas and compressed air applications.

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## Compact design

The sensors are compact, rugged but at the same time lightweight and thus perfectly suited for handling and automation systems. They feature two switching outputs and are NO/NC programmable in hysteresis mode. The output configuration is easily reprogrammed for special requirements, such as monitoring of a pressure window, for example.

- For pressure and vacuum monitoring
- Compact sensors in cylindrical or manometer-like design
- 3-digit 7-segment display
- Display rotatable by 180°
- Excellent EMC properties
- One LED per output to indicate the switching status



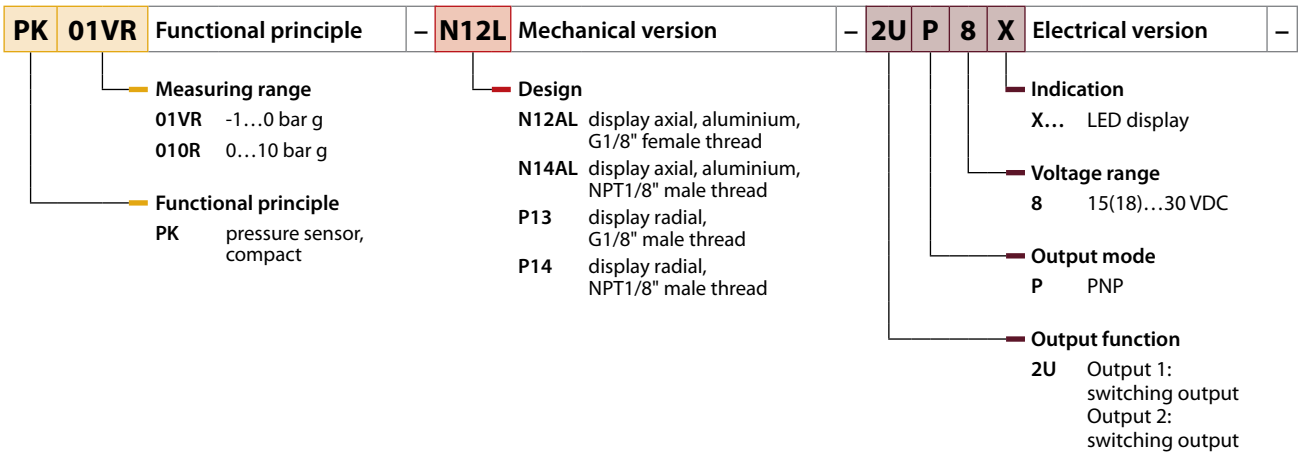
## Easy programming

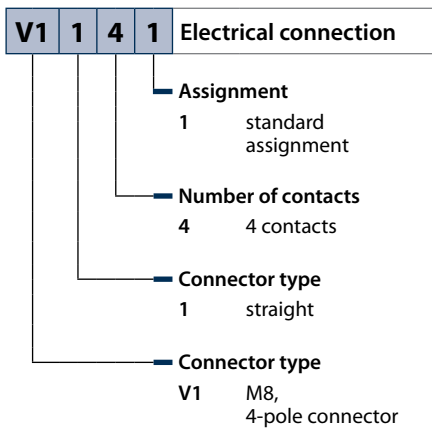
Thanks to the user friendly menu guide, parameters such as switch and release points, output type, analog range and

various special functions are easily taught. The buttons are finger-operated. Additional tools are not needed.

# Type code

**PK 01VR - N12L - 2U P 8 X - V1 1 4 1**





## PK-N series – For pneumatic applications

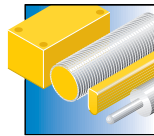


The PK-N pressure sensors operate with a silicon measuring cell. It is an open silicon chip with direct contact to the medium. The N version is manometer-shaped, features a display and a process connection on the back side. The processed signal is provided at the switching output. These sensors are only suitable for non-aggressive gas and compressed air applications.

### Features

- Compact manometer-like design
- 3-digit 7-segment display
- For pressure and vacuum monitoring
- Display rotatable by 180°
- Excellent EMC properties

### Properties



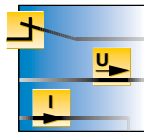
#### Designs

Manometer-like design with display



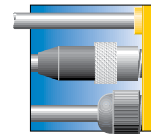
#### Measuring ranges

0...10 bar rel.  
0...-1 bar rel.



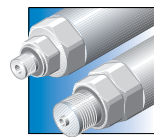
#### Electrical versions

2-channel with switching outputs



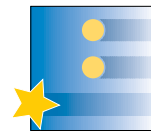
#### Electrical connections

Male M8 x 1, 4-pin



#### Connectivity

G1/8" female and 1/8"NPT male thread



#### Special features

For pneumatic applications



#### Internet link

Scan the QR code to access our products on the internet

## G1/8" – Female – 2 switching outputs



<b>General data</b>			
<b>Output 1</b>	switching output	<b>Output 2</b>	switching output
<b>Protection class</b>	IP65	<b>Connection</b>	male, M8 x 1
<b>Mechanical connection</b>	G 1/8" female thread	<b>Medium temperature</b>	0...50 °C
<b>Operating voltage</b>	10.8...30 VDC	<b>Housing material</b>	Al/PVC
<b>Switching frequency</b>	400 Hz	<b>Accuracy switching output</b>	1 % v. E. BSL

### Types and data – selection table

Type	Relative pressure	Admissible overpressure	w	d
PK01VR-N12AL-2UP8X-V1141	-1...0 bar rel.	5 bar	w162	d633
PK010R-N12AL-2UP8X-V1141	0...10 bar rel.	16 bar	w162	d633

## 1/8" NPT – Male – 2 switching outputs



<b>General data</b>			
<b>Output 1</b>	switching output	<b>Output 2</b>	switching output
<b>Protection class</b>	IP65	<b>Connection</b>	male, M8 x 1
<b>Mechanical connection</b>	NPT 1/8" male thread	<b>Medium temperature</b>	0...50 °C
<b>Operating voltage</b>	10.8...30 VDC	<b>Housing material</b>	Al/PVC
<b>Switching frequency</b>	400 Hz	<b>Accuracy switching output</b>	1 % v. E. BSL

### Types and data – selection table

Type	Relative pressure	Admissible overpressure	w	d
PK01VR-N14AL-2UP8X-V1141	-1...0 bar rel.	5 bar	w162	d633
PK010R-N14AL-2UP8X-V1141	0...10 bar rel.	16 bar	w162	d633

## PK-P series – For pneumatic applications

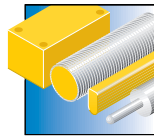


The PK-P pressure sensors operate with a silicon measuring cell. It is an open silicon chip with direct contact to the medium. The P version has a rotatable, cylindrical body with display. These sensors are only suitable for non-aggressive gas and compressed air applications. The processed signal is provided at the switching output.

### Features

- Compact cylindrical design
- Rotatable sensor body
- 3-digit 7-segment display
- For pressure and vacuum monitoring
- Display rotatable by 180°
- Excellent EMC properties

### Properties



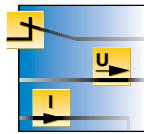
#### Designs

Cylindrical version with laterally mounted display



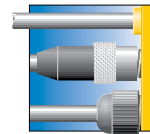
#### Measuring ranges

0...10 bar rel.  
0...-1 bar rel.



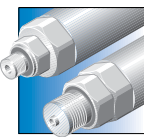
#### Electrical versions

2-channel with switching outputs



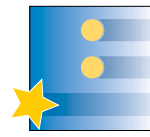
#### Electrical connections

Male M8 x 1, 4-pin



#### Connectivity

G1/8" or 1/8"NPT male thread



#### Special features

For pneumatic applications



#### Internet link

Scan the QR code to access our products on the internet

## G1/8" – Male – 2 switching outputs



<b>General data</b>			
<b>Output 1</b>	switching output	<b>Output 2</b>	switching output
<b>Protection class</b>	IP65	<b>Connection</b>	male, M8 x 1
<b>Mechanical connection</b>	G 1/8" male thread	<b>Medium temperature</b>	0...50 °C
<b>Operating voltage</b>	10.8...30 VDC	<b>Housing material</b>	ABS
<b>Switching frequency</b>	400 Hz	<b>Accuracy switching output</b>	1 % v. E. BSL

### Types and data – selection table

Type	Relative pressure	Admissible overpressure	w	d
PK010R-P13-2UP8X-V1141	0...10 bar rel.	16 bar	w162	d634
PK01VR-P13-2UP8X-V1141	-1...0 bar rel.	5 bar	w162	d634

## 1/8" NPT – Male – 2 switching outputs



<b>General data</b>			
<b>Output 1</b>	switching output	<b>Output 2</b>	switching output
<b>Protection class</b>	IP65	<b>Connection</b>	male, M8 x 1
<b>Mechanical connection</b>	NPT 1/8" male thread	<b>Medium temperature</b>	0...50 °C
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<b>Switching frequency</b>	400 Hz	<b>Accuracy switching output</b>	1 % v. E. BSL

### Types and data – selection table

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PK010R-P14-2UP8X-V1141	0...10 bar rel.	16 bar	w162	d634