

Pressure sensors – PC series



Compact IO-Link solution

The PC series is especially made for IO-Link communication, complying with all typical demands of machine building. The sensors communicate on the field-bus level via a point-to-point connection. Cyclic and acyclic services ensure a se-

sure detection of process-relevant values. They can also be used as simple switches. Switch and release point are programmed via the IO-Link interface.



Made-to-measure solutions

The PC series is equipped with the proven ceramic measuring cell technology. Thanks to the rugged design, they are ideally suited for hydraulic applications in a range from -1 to 600 bar. The constant pressure cycles exert load on the

membrane, the sealings and the transducer housing. The sensors are therefore protected by a stainless steel housing without display which makes them extremely resistant to pressure.

Type code

PC 250R - 2 01 - 2UPN 8 X - H1 1 4 1

PC	250R	Functional principle	-	2 01	Mechanical Design	-	2UPN 8 X	Electrical version	-
<ul style="list-style-type: none"> — Measuring range 01VR -1...0 bar g 001R 0...1 bar g 001V -1...1 bar g 003V -1...2.5 bar g 010V -1...10 bar g 016V -1...16 bar g 025V -1...25 bar g 040V -1...40 bar g 100R 1...100 bar g 250R 1...250 bar g 400R 1...400 bar g 600R 1...600 bar g 				<ul style="list-style-type: none"> — Pressure connection 01 G$\frac{1}{4}$" female thread 02 $\frac{1}{4}$"-18 NPT female thread 03 $\frac{1}{4}$"-18-NPT male thread 04 G$\frac{1}{4}$" male thread 10 R$\frac{1}{4}$" male thread 11 R$\frac{1}{4}$" female thread 				<ul style="list-style-type: none"> — Electrical version X with LED display 	
<ul style="list-style-type: none"> — Functional principle PC Pressure sensor 				<ul style="list-style-type: none"> — Housing 2 cylindrical type, without display 				<ul style="list-style-type: none"> — Voltage range 8 15...30 VDC 	
								<ul style="list-style-type: none"> — Output type 2UPN 2 switching outputs 	

H1	1	4	1	Electrical connection
				— Assignment 1 standard assignment
				— Number of contacts 4 4 contacts M12 x 1
				— Connector type 1 straight
				— Connector type H1 connector M12 x 1

PC-series - Hydraulic applications with IO-Link

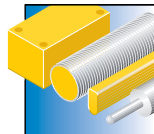


The PC series is equipped with the proven ceramic measuring cell technology. Thanks to the rugged design, they are ideally suited for hydraulic applications in a range from -1 to 600 bar. The constant pressure cycles exert load on the membrane, the sealings and the transducer housing. The sensors are therefore protected by a stainless steel housing without display which makes them extremely resistant to pressure.

Features

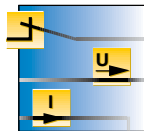
- Compact and rugged design
- Measuring range -1...600 bar relative pressure
- IP 67/ 69K
- IO-Link communication
- 0.5 % f.s.

Properties



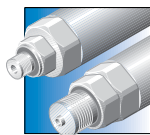
Designs

Cylindrical design, non-rotatable, without display



Electrical versions

IO-Link communication
2 switching outputs



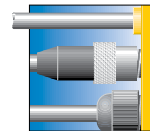
Connectivity

G 1/4" and 1/4"NPT, female and male thread



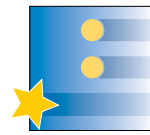
Measuring ranges

-1...600 bar rel.



Electrical connections

Male M12 x 1



Special features

For media temperatures up to +85 °C, IP67/ IP69K



Internet link

Scan the QR code to access our products on the internet

G1/4" – Female thread – 2 switching outputs



General data			
Output 1	Switching output or IO-Link mode	Output 2	switching output
Protection class	IP69K	Connection	male, M12 x 1
Mechanical connection	G 1/4" female thread	Medium temperature	-40...85 °C
Operating voltage	15...30 VDC	Response time	3 ms
Housing material	1.4305 (AISI 303)/PBT-GF15	Switching frequency	180 Hz
Accuracy switching output	0.5 % v. E. BSL		

Types and data – selection table

Type	Relative pressure	Admissible overpressure	w	d
PC01VR-201-2UPN8X-H1141	-1...0 bar rel.	5,5 bar	w159	d639
PC001V-201-2UPN8X-H1141	-1...1 bar rel.	5,5 bar	w159	d639
PC001R-201-2UPN8X-H1141	0...1 bar rel.	5,5 bar	w159	d639
PC003V-201-2UPN8X-H1141	-1...2.5 bar rel.	12 bar	w159	d639
PC010V-201-2UPN8X-H1141	-1...10 bar rel.	50 bar	w159	d639
PC016V-201-2UPN8X-H1141	-1...16 bar rel.	80 bar	w159	d639
PC025V-201-2UPN8X-H1141	-1...25 bar rel.	120 bar	w159	d639
PC040V-201-2UPN8X-H1141	-1...40 bar rel.	200 bar	w159	d639
PC100R-201-2UPN8X-H1141	0...100 bar rel.	450 bar	w159	d639
PC250R-201-2UPN8X-H1141	0...250 bar rel.	600 bar	w159	d639
PC400R-201-2UPN8X-H1141	0...400 bar rel.	800 bar	w159	d639
PC600R-201-2UPN8X-H1141	0...600 bar rel.	900 bar	w159	d639

Many different types available, also with barrel, see type code

G1/4" – Male thread – 2 switching outputs



General data			
Output 1	Switching output or IO-Link mode	Output 2	switching output
Protection class	IP69K	Connection	male, M12 x 1
Mechanical connection	G 1/4" male thread	Medium temperature	-40...85 °C
Operating voltage	15...30 VDC	Response time	3 ms
Housing material	1.4305 (AISI 303)/PBT-GF15	Switching frequency	180 Hz
Accuracy switching output	0.5 % v. E. BSL		

Types and data – selection table



Type	Relative pressure	Admissible overpressure	w	d
PC01VR-204-2UPN8X-H1141	-1...0 bar rel.	5,5 bar	w159	d640
PC001V-204-2UPN8X-H1141	-1...1 bar rel.	5,5 bar	w159	d640
PC001R-204-2UPN8X-H1141	0...1 bar rel.	5,5 bar	w159	d640
PC003V-204-2UPN8X-H1141	-1...2.5 bar rel.	12 bar	w159	d640
PC010V-204-2UPN8X-H1141	-1...10 bar rel.	50 bar	w159	d640
PC016V-204-2UPN8X-H1141	-1...16 bar rel.	80 bar	w159	d640

Table continues on the next page...

Pressure switch without display

PC-series - Cylindrical design

... Table starts on previous page

Type	Relative pressure	Admissible overpressure		
PC025V-204-2UPN8X-H1141	-1...25 bar rel.	120 bar	w159	d640
PC040V-204-2UPN8X-H1141	-1...40 bar rel.	200 bar	w159	d640
PC100R-204-2UPN8X-H1141	0...100 bar rel.	450 bar	w159	d640
PC250R-204-2UPN8X-H1141	0...250 bar rel.	600 bar	w159	d640
PC400R-204-2UPN8X-H1141	0...400 bar rel.	800 bar	w159	d640
PC600R-204-2UPN8X-H1141	0...600 bar rel.	900 bar	w159	d640

Many different types available, also with barrel, see type code

