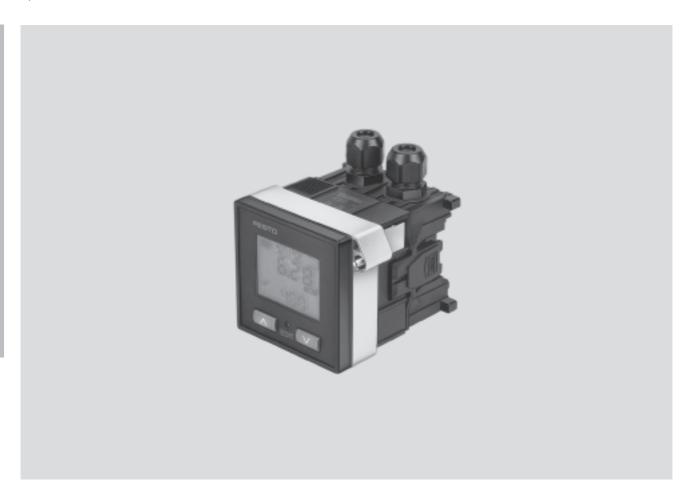


### Pressure sensors PENV-A, with display

Key features





#### **Key features**

These sensors are designed for use in the most demanding environments. They can be used as an alternative to pressure gauges, for example. The sensors offer:

- A wide range of integrated functions
- A clear and easy to understand display
- Straightforward commissioning and simply servicing
- Wear-free characteristics
- High switching capacities
- Digital and analogue switching outputs

# Type discontinued Available up until 2007

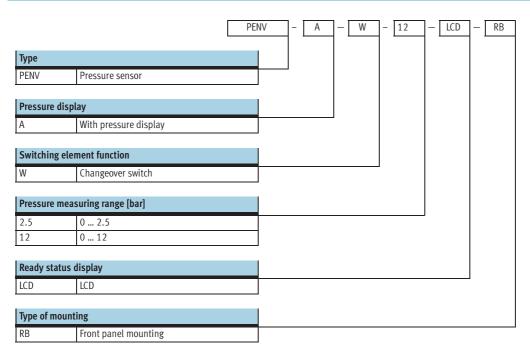
## Pressure sensors PENV-A, with display

Overview and type codes

**FESTO** 

Function	Version	Туре	Pneumatic	Operating	Switch output	Electrical connection		→ Page
			connection	voltage		Cable	Plug	
Pressure sensors		PENV-A-W	G <sup>1</sup> /8	15 30 V DC	Relay	-	•	4 / 8.2-80

#### Type codes



8.2

# - Type discontinued Available up until 2007

## Pressure sensors PENV-A, with display

Technical data

**FESTO** 





- Pressure 0.2 ... 12 bar





General technical data					
Туре		PENV-A-W-2,5-LCD-RB	PENV-A-W-12-LCD-RB		
Operating pressure	[bar]	0 2.5	0 12		
Mechanical					
Pneumatic connection		G½8			
Method of measurement		Piezoresistive pressure sensor			
Measured variable		Relative pressure			
Analogue outputs	U <sub>A</sub>	0 10 V	0 10 V		
	IA	4 20 A	4 20 A		
Accuracy of analogue outputs	[% FS]	1	1		
Reproducibility of switching point	[% FS]	0.1	0.1		
Hysteresis		0.01 2.25 bar	0.02 9 bar		
Temperature coefficient		1.5% FS max.	1.5% FS max.		
Electrical connection		Plug, 11-pin	Plug, 11-pin		
Type of mounting		With mounting rail	With mounting rail		
		Via through-holes	Via through-holes		
		Front panel mounting	Front panel mounting		
Mounting position		Any <sup>1)</sup>			
Weight	[g]	270	270		
Electrical					
Operating voltage range	[V DC]	15 30	15 30		
Protection against short		Yes	Yes		
circuit					
Protection against polarity		For operating voltage	For operating voltage		
reversal					
Switch output		PNP	PNP		
Ready status display		Via LCD	Via LCD		
Switching status display		Via LCD	Via LCD		
Protection class to EN 60 529		IP65			
CE symbol		73/23/EEC (low voltage), 89/336/EEC (EMC)			

<sup>1)</sup> The collection of condensate in the sensor should be prevented.

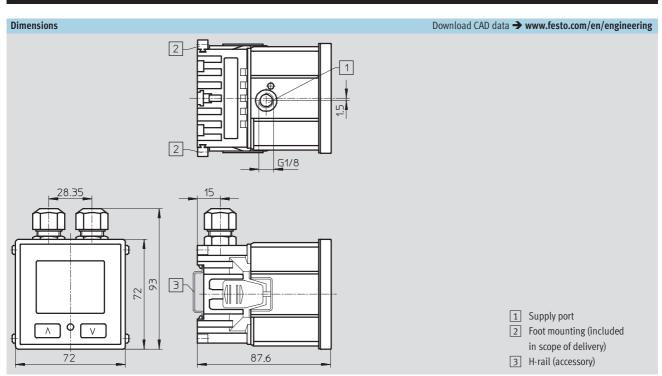
Operating and environmental conditions					
Туре	PENV-A-W-2,5-LCD-RB	PENV-A-W-12-LCD-RB			
Operating medium	Filtered compressed air, lubricated or unlubricated				
Pressure measuring range [bar]	0 2.5	0 12			
Threshold value setting range	0.05 2.5 bar	0.2 12 bar			
Ambient temperature [°C]	0 50				
Temperature of medium [°C]	0 50				

### Pressure sensors PENV-A, with display

Technical data



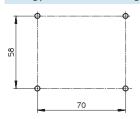
Materials		
Housing	Polycarbonate	
Cover	Polyacetal	
Window	Polycarbonate	
Keyboard	Silicone rubber	

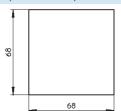


#### Mounting

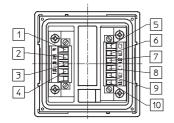
Drilling pattern for wall mounting

Aperture for front panel mounting





#### Electrical connection, shown without cover



- 1 + U<sub>S</sub>
- 2 GND
- 3 Analogue current output
- 4 Analogue voltage output
- 5 Common connection relay 2
- 6 NC contact relay 2
- 7 NO contact relay 2
- 8 Common connection relay 1
- 9 NC contact relay 1
- 10 NO contact relay 1

(plug connector for cable mounting included in scope of delivery)

Ordering data					
Description	Pneumatic connection	Pressure measuring range	Part No.	Туре	
		[bar]			
Piezoresistive pressure sensor with	G1/8	0 2.5	161 055	PENV-A-W-2,5-LCD-RB	
LCD display	G <sup>1</sup> / <sub>8</sub>	0 12	161 056	PENV-A-W-12-LCD-RB	

8.2

# Pressure sensors PENV-A, with display Accessories



Ordering data	– Accessories			Technical data → 4 / 5.1-146
	For pressure sensor	Brief description	Part No.	Туре
Plug				
	PENV-A	Straight plug, 4-pin, M12x1, Pg7	18 666	SEA-GS-7
		Straight plug, 4-pin, M12x1, Pg9	18 778	SEA-GS-9
		Straight plug, 4-pin, M12x1, Pg11,	18 779	SEA-GS-11-DUO
		for 2 sensor cables		
		Straight plug, 4-pin, M12x1	192 008	SEA-GS-7-2,5
		Straight plug, 5-pin, M12x1, Pg11,	192 010	SEA-5GS-11-DUO
		for 2 sensor cables		
	•	•	•	
DIN mounting I	rail to EN 60715			
-26	PENV-A	2 m long	35 430	NRH-35-2000
000000000000000000000000000000000000000				