## **Pressure and vacuum sensor Type SDE1**





With the modular SDE1 system for pressure measurement. monitoring and sensing, you have all pressure values under control at all times: For more productivity and faster commissioning of your installation.

# Intelligent pressure measurement

The modular SDE1 system – intelligent pressure sensors with a freely-programmable hysteresis/comparator mode. Choice of relative or differential pressure. Plus very quick and easy programming.

### **Universal** mounting

Simply click or slide into place, and the modular SDE1 is soon installed. This saves time and requires no additional hardware.

## Robust design

Degree of protection IP65 allows installation in harsh environments

#### Easy to use

With a clear LCD display and simple 3-button menu guidance: fast commissioning without the need for operating instructions. Highly flexible in terms of electrical connections, thanks to a choice of M8 or M12 plug connectors.

## Attractive pricing

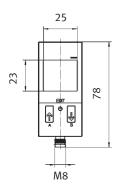
The SDE1 is winning customers over with its highly attractive price-performance ratio.



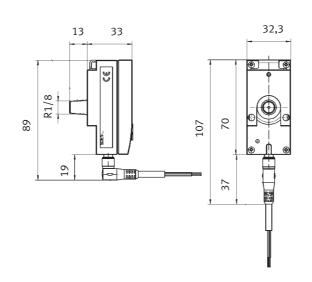
Product Short Information

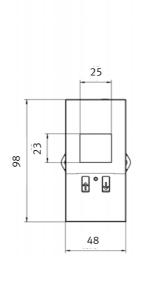
304.1.**PSI** 

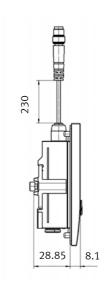
# Dimensions











SDE1 modular system: general technical data			
Measuring method	Piezoresistive pressure sensor		
Mounting position	Any		
Media compatibility	Filtered compressed air/vacuum		
	(40 μm), lubricated or unlubricated		
	(no aggressive gases)		
Switching output accuracy	±2 % FS		
Reproducibility	±0.3 % FS		
Rated operating current	Max. 150 mA		
Nominal temperature range	0 to 50 °C		
Operating voltage range	15 to 30 V DC		
No-load current	Max. 35 mA		
Display type	3½-place LCD/illuminated LCD		

Туре	Measuring range [bar]	Overload capacity [bar]	Threshold value setting range [bar]	Hysteresis setting range [bar]
SDE1-V1	01	max. 5	-0.020,998	0.00 0.90
SDE1-B2	-11	max. 5	-0.999 +0.996	0.000 1.800
SDE1-D2	02	max. 6	0.04 +1.996	0.000 1.800
SDE1-D6	06	max. 16	0.12 +5.99	0.00 5.40
SDE1-D10	010	max. 20	0.20 9.98	0.00 9.00

## SDE1 modular system: overview of features and variants

## Pressure measuring range

- 0 ... -1 bar
- -1 ... 1 bar
- 0 ... 2 bar
- 0 ... 6 bar
- 0 ...10 bar

## Display types

- LCD
- Illuminated LCD

# Pneumatic connections and assembly

- R1/8" (for M and D series)
- R1/4" (for M and D series)
- G1/8" for H rail (relative pressure)
- G1/8" for wall and surface mounting (relative pressure)
- QS4 connectors for H rail (differential pressure)
- QS4 connectors for wall and surface mounting (differential pressure)
- QS4 connectors for front panel mounting

#### **Electrical outputs**

- 1 switch, PNP
- 2 switches, PNP
- 1 switch, PNP, and 0 to 10 V analogue
- 1 switch, PNP, and 4 to 20 mA analogue
- 1 switch, NPN
- 2 switches, NPN
- 1 switch, NPN, and 0 to 10 V analogue
- 1 switch, NPN, and 4 to 20 mA analogue

## **Electrical connections**

- M8 plug
- M12 plug

## Connector cable (accessory)

- Straight socket, 2.5 m
- Angled socket, 2.5 m
- Straight socket, 5 m
- Angled socket, 5 m

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