BSP Pressure Sensors
Standard sensors

Pressure sensors for standard applications offer an impressive price/performance ratio and are suitable for a wide variety of applications in factory automation. A large display and a simple operating concept in line with VDMA saves you time when configuring the sensors. Save space when installing the versatile pressure sensors. The display and electrical output can be rotated independently of the flange.

Additional advantages

- A compact housing design
- Local pressure display
- Binary switching outputs
- Analog output signals

Pressure sensors are found in many mechanical engineering applications. Different versions with switching points, an analog output and various pressure ranges mean you are guaranteed to find the right sensor for your application.

PNP pressure sensors

–1...2 bar (–14.5...29 psi)	**Ordering code**	
	Part number	
–1...10 bar (–14.5...145 psi)	**Ordering code**	
	Part number	
0...2 bar (0...29 psi)	**Ordering code**	
	Part number	
0...5 bar (0...73 psi)	**Ordering code**	
	Part number	
0...10 bar (0...145 psi)	**Ordering code**	
	Part number	
0...20 bar (0...290 psi)	**Ordering code**	
	Part number	
0...50 bar (0...725 psi)	**Ordering code**	
	Part number	
0...100 bar (0...1450 psi)	**Ordering code**	
	Part number	
0...250 bar (0...3626 psi)	**Ordering code**	
	Part number	
0...400 bar (0...5802 psi)	**Ordering code**	
	Part number	
0...600 bar (0...8702 psi)	**Ordering code**	
	Part number	
Supply voltage U_B		
Output current max.		
No-load supply current I_0 max.		
Switching frequency f max.		
Accuracy		
Temperature error		
Polarity reversal protected/short-circuit protected		
Ambient/media temperature		
Display/function indicators		
Degree of protection per IEC 60529		
Material	Housing	
	Measuring cell	
	Seal	
Connection	Plug connector	
	Process connection	

NPN variants
All sensors are also available as NPN variants. Please contact our technical service department

Design	Relative nominal pressure	Overload pressure	Burst pressure ≥	Permitted vacuum
–1...2 bar	2 bar	4 bar	10 bar	Vacuum-proof
–1...10 bar	10 bar	20 bar	35 bar	
0...2 bar	2 bar	4 bar	10 bar	
0...5 bar	5 bar	10 bar	15 bar	
0...10 bar	10 bar	20 bar	35 bar	
0...20 bar	20 bar	40 bar	75 bar	
0...50 bar	50 bar	100 bar	150 bar	
0...100 bar	100 bar	200 bar	250 bar	
0...250 bar	250 bar	400 bar	450 bar	
0...400 bar	400 bar	650 bar	700 bar	
0...600 bar	600 bar	750 bar	800 bar	

BSP Pressure Sensors
Standard sensors

Two programmable switching points (NO or NC)

One programmable switching point and analog output 0...10 V DC

One programmable switching point and analog output 4...20 mA

	BSP004F	**BSP004J**	**BSP004L**
	BSP V002-EV002-D00A0B-S4	BSP V002-EV002-D00A0B-S4	BSP V002-EV002-D00A0B-S4
	BSP004H	**BSP004K**	**BSP004M**
	BSP V010-EV002-D00A0B-S4	BSP V010-EV002-A00A0B-S4	BSP V010-EV002-A02A0B-S4
	BSP000F	**BSP000T**	**BSP0014**
	BSP B002-EV002-D00A0B-S4	BSP B002-EV002-A00A0B-S4	BSP B002-EV002-D00A0B-S4
	BSP000H	**BSP000U**	**BSP0015**
	BSP B005-EV002-D00A0B-S4	BSP B005-EV002-D00A0B-S4	BSP B005-EV002-A02A0B-S4
	BSP000J	**BSP000W**	**BSP0016**
	BSP B010-EV002-D00A0B-S4	BSP B010-EV002-A00A0B-S4	BSP B010-EV002-A02A0B-S4
	BSP000K	**BSP000Y**	**BSP0017**
	BSP B020-EV002-D00A0B-S4	BSP B020-EV002-A00A0B-S4	BSP B020-EV002-D00A0B-S4
	BSP000L	**BSP000Z**	**BSP0018**
	BSP B050-EV002-D00A0B-S4	BSP B050-EV002-A00A0B-S4	BSP B050-EV002-A02A0B-S4
	BSP000M	**BSP0010**	**BSP0019**
	BSP B100-EV002-D00A0B-S4	BSP B100-EV002-A00A0B-S4	BSP B100-EV002-D00A0B-S4
	BSP000N	**BSP0011**	**BSP001A**
	BSP B250-EV002-D00A0B-S4	BSP B250-EV002-A00A0B-S4	BSP B250-EV002-A02A0B-S4
	BSP000P	**BSP0012**	**BSP001C**
	BSP B400-EV002-D00A0B-S4	BSP B400-EV002-A00A0B-S4	BSP B400-EV002-A02A0B-S4
	BSP000R	**BSP0013**	**BSP001E**
	BSP B600-EV002-D00A0B-S4	BSP B600-EV002-D00A0B-S4	BSP B600-EV002-A02A0B-S4
	18...36 V DC	18...36 V DC	18...36 V DC
	500 mA	500 mA	500 mA
	≤ 50 mA	≤ 50 mA	≤ 50 mA
	200 Hz	200 Hz	200 Hz
	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL
	≤ ±0.3 % FSO/10 K	≤ ±0.3 % FSO/10 K	≤ ±0.3 % FSO/10 K
	Yes/Yes	Yes/Yes	Yes/Yes
	–25…+85 °C/–25...+125 °C	–25…+85 °C/–25...+125 °C	–25…+85 °C/–25...+125 °C
	7-segment display/LED	7-segment display/LED	7-segment display/LED
	IP 67 (when screwed into place)	IP 67 (when screwed into place)	IP 67 (when screwed into place)
	PA 6.6 and stainless steel	PA 6.6 and stainless steel	PA 6.6 and stainless steel
	Ceramic	Ceramic	Ceramic
	Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
	Internal thread G¼" per DIN EN 3852	Internal thread G¼" per DIN EN 3852	Internal thread G¼" per DIN EN 3852