

BALLUFF

sensors worldwide

BSP Pressure Sensors

Reliable solutions for the automation industry



395.9 PSI

27.3 bar





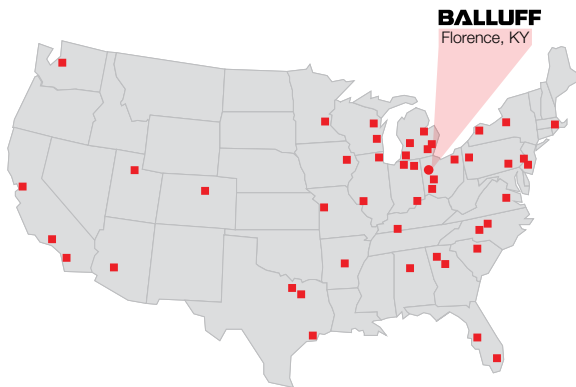
Balluff North America

Florence, Kentucky USA

Balluff's Florence, Kentucky United States headquarters is located just south of Cincinnati, Ohio. Our customers are in industries such as automotive, machine tool, robotics, injection molding, packaging, material handling, and more.

In addition to sales, marketing, and logistic functions, this facility manufactures Micropulse® magnetostrictive linear position sensors and warehouses over 60,000 products.

Local Premier Distributor Support



Our premier distributor network can quickly assist with applications and order fulfillment. **For a distributor in your area, visit www.balluff.us**

Service

- 24 hour on-call service.
- Complete in-house technical support.
- Comprehensive product selection, cross reference, and application assistance
- Fast, friendly experienced service – guaranteed!
- Same day shipping – in by 2:00 p.m. EST, out the same day!



Visit us online: www.balluff.com
 E-mail us: Technical.Support@balluff.com
 Give us a call: **1-800-543-8390**

The Balluff Global Network

Balluff spans the globe with representation in 56 countries.



BSP pressure sensors from Balluff were designed for measuring the pressure of gases and liquids. By means of a rotatable housing and two buttons for programming, the sensors are flexible to install and easy to operate. The bright LED display makes it possible to read the current system pressure quickly at all times.



BSP Pressure Sensors

10



Industrial Networking and Connectivity – A Selection

30

For additional products, refer to our catalog: Industrial Networking and Connectivity – A guide to industrial network architectures and sensor connections



Accessories – A Selection

32

For additional products, refer to our brochure: Sensor Positioning System – Award winning flexible system for sensor placement



Basic Information and Definitions

34



Alphanumerical Directory

44



⚠ WARNING

- Read, understand, and follow warnings and manual. Failure to do so could result in serious injury or death.
- NEVER USE AS A SENSING DEVICE FOR PERSONNEL PROTECTION
- Does NOT include self-checking redundancy circuitry required for use in personnel safety applications
- Does NOT meet OSHA and ANSI standards for point-of-operation devices

Balluff, Inc. · www.balluff.com · 1-800-543-8390




Reliability for Process Technology

BSP Pressure Sensors guarantee a consistently high product quality

Process technology is becoming increasingly more important in factory automation. Monitoring of process media such as cooling lubricants, hydraulic oils, and pneumatic systems has an important influence on the manufacturing quality.

- Save space when positioning the versatile sensor – the exceptionally compact sensor has independently rotating display and connection housings.
- View the system pressure at a glance – Balluff pressure sensors have a large, bright illuminated LED display.
- Clear menu navigation for the quick and easy adjustment of pressure parameters – configure the sensor using two buttons in line with VDMA standards.
- Also suitable for harsh industrial applications – Balluff offers versions in a high-quality, rugged stainless steel housing with IP 67 degree of protection.
- Reliable operation of your plants even under demanding conditions (pressure peaks) – reliable ceramic measuring cells with long-term stability guarantee a long service life.
- Simple installation with globally standardized screw fittings – process connection via a G¼" internal thread and adapter available in different sizes and versions.
- Find the right sensor for your application – Balluff offers versions with two switching points or with one switching point and one analog output.
- Secure operation for your plant – Balluff pressure sensors can be protected from unauthorized access by a password.

Version	Standard	Stainless Steel	Flush-mounted	Transmitter
Page	12	16	20	22
Housing material				
Plastic	■			
Stainless steel		■	■	■
Special properties				
Connection via IO-Link is possible 	■	■		
Compact versions without a display				■
Standard temperature range –25...+85 °C	■			
Extended temperature range –40...+85 °C		■	■	■
Display housing rotates by 320°	■	■	■	
M12 connector rotates by 320°	■	■	■	
Detects pasty and sticky media			■	
Applications				
Hydraulics	■	■		■
Pneumatics	■	■		■
Machine tools	■	■	■	■
Plastics technology	■	■	■	■
Packaging machines	■	■	■	■
Wind power plants		■		■
Off-shore		■		■
Chemical industry	■		■	

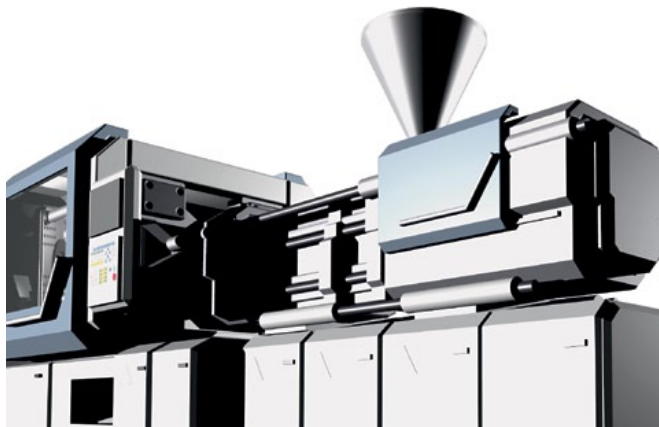


For a Wide Variety of Applications

BSP pressure sensors combine the advantages of displays, measuring transducers and pressure switches

Holding pressure switchover on injection molding machines

Balluff BSP pressure sensors measure the hydraulic pressure of the screw drive in order to regulate the switchover point between the injection and holding pressure systems. Controlling this parameter with a high degree of precision is crucial to achieving the dimensional accuracy and quality of the products manufactured. A pressure sensor BSP with analog output monitors the available hydraulic pressure in order to control the process accurately while achieving a satisfactory degree of reproducibility.



Benefits

- Switching point and analog output (0...10 V or 4...20 mA)
- IP 67 degree of protection
- Consistent quality of workpieces

Monitoring of cooling lubricant in machine tools

The pressure in the coolant supply system must be monitored continually to guarantee the consistently high surface quality of machined workpieces. BSP pressure sensors can monitor the pressure level and shut down the machine within a few milliseconds if the system pressure exceeds the defined limits.



Benefits

- Ceramic measuring cells offer stability
- Display is easy to read
- Reliable machine operation



Central hydraulic unit in wind power plants

Many central systems in a wind power plant, such as the pitch control and braking system, are operated hydraulically. The stainless steel version of the BSP measures the actual system pressure reliably, even under harsh ambient conditions. The pump motor can be controlled directly via two programmable switching points to prevent the oil pressure from exceeding or falling below the optimum level.



Vacuum grippers in handling and conveyor systems

Vacuum grippers are used for a wide variety of material handling tasks. The grippers must be able to adapt to different materials and workpieces and operate continuously without error. BSP pressure sensors perform reliably in the vacuum pressure range. They monitor the pressure of the vacuum suction cups and thereby ensure reliable gripping.



Benefits

- Compact design
- Simple startup
- Vacuum sensors up to -1 bar relative pressure

Benefits

- Extended temperature range down to -40 °C
- Two programmable switching points
- Increased system availability

Pressure Sensors with IO-Link – Right Where the Action Is

Pressure monitoring in production

Achieving the best results on a lathe requires a reliable grip on the workpiece and the tool. Pressure sensors for monitoring clamping pressure are used to ensure this function. They are also ideally suited for monitoring process media such as coolants, lubricants, hydraulic fluids and pneumatic components.

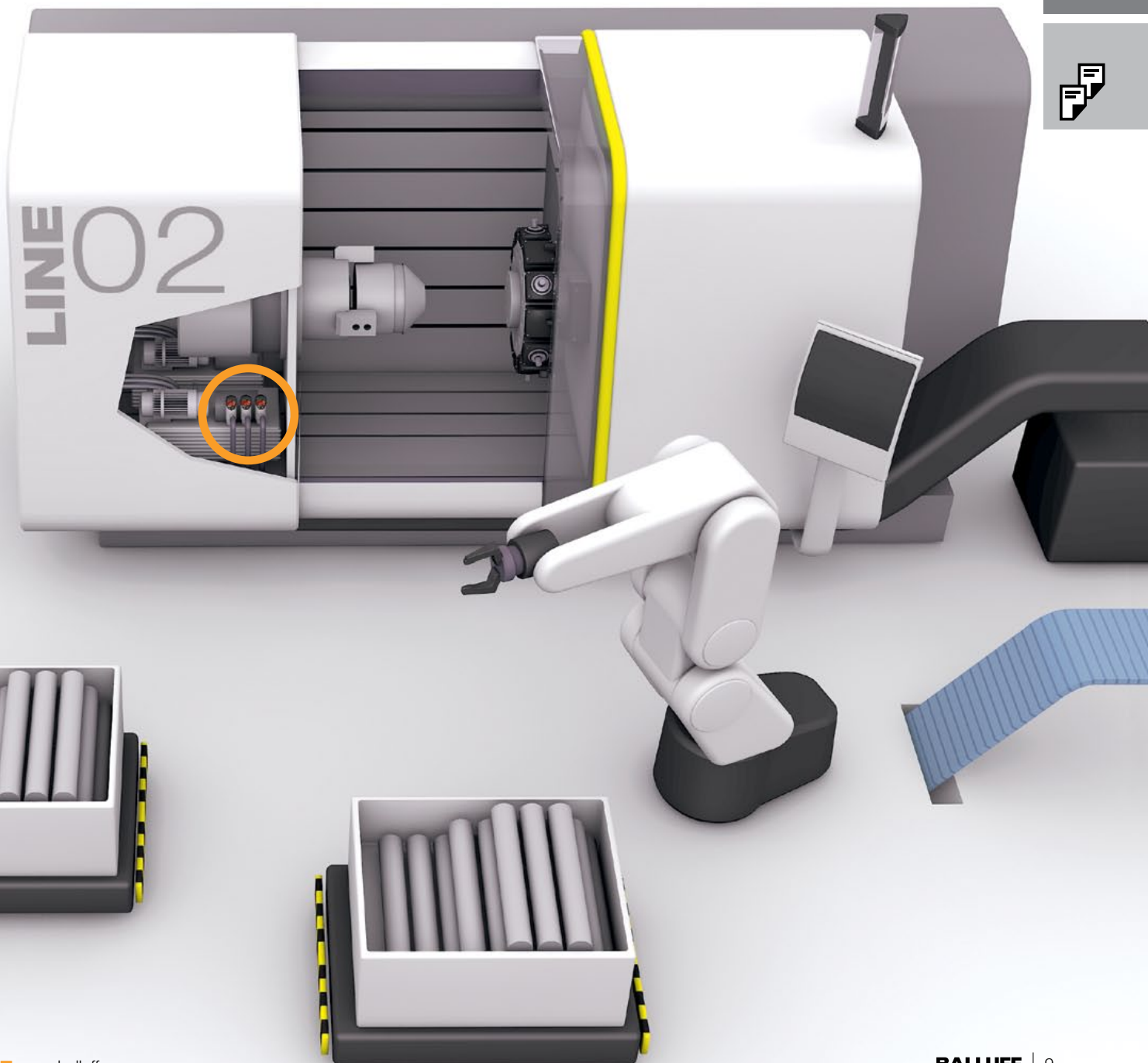
IO-Link pressure sensors continuously relay their measured values and data to the controller and let it provide precise readjustment when necessary. IO-Link pressure sensors ensure the highest machine availability. Replacing sensors is possible with simple plug-and-play, since the configuration of the replaced sensor is automatically downloaded from the IO-Link master.

A further benefit

The parameters for IO-Link pressure sensors can be configured using the controller, meaning that they can be installed right where the action is, even at hard-to-reach locations. In the best position for measurements and perfectly matched to the machine design. This ensures quick and precise results. And it saves on costs, since complex mechanical installations of hydraulic lines can be reduced to a minimum.



IO-Link pressure
sensor





BSP Pressure Sensors

BSP Pressure Sensors

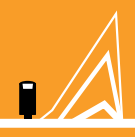
Balluff pressure sensors monitor pressures of gaseous and fluid media; they can also be used in a variety of ways in factory automation. For this reason, standard and complex applications can be easily solved with them. Moreover, they feature an especially high degree of user-friendliness and an impressive price/performance ratio.



BSP Pressure Sensors

Contents

Standard sensors	12
Standard sensors with IO-Link	14
Stainless steel sensors	16
Stainless steel sensors with IO-Link	18
Flush-mounted stainless steel sensors	20
Transmitters for a wide variety of applications	22
Special pressure sensors	26
Calibration of pressure sensors	27



Basic information and definitions can be found on page 34.



BSP Pressure Sensors

Standard sensors

Standard pressure sensors are suitable for a wide variety of applications in factory automation. A large display and a simple operating concept in accordance 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

- Compact housing design
- Local pressure display
- Digital switching outputs
- Analog output



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)	PNP	Ordering code	
	NPN	Ordering code	
-1...10 bar (-14.5...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...2 bar (0...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...5 bar (0...73 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...10 bar (0...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...20 bar (0...290 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...50 bar (0...725 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...100 bar (0...1450 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...250 bar (0...3626 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...400 bar (0...5802 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...600 bar (0...8702 psi)	PNP	Ordering code	
	NPN	Ordering code	
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		

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	vacuum proof
-1...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	
0...5 bar	73 psi	5 bar	145 psi	10 bar	218 psi	15 bar	
0...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...20 bar	290 psi	20 bar	580 psi	40 bar	1088 psi	75 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	3626 psi	250 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	6527 psi	450 bar	
0...400 bar	5802 psi	400 bar	9428 psi	650 bar	10153 psi	700 bar	
0...600 bar	8702 psi	600 bar	10878 psi	750 bar	11603 psi	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



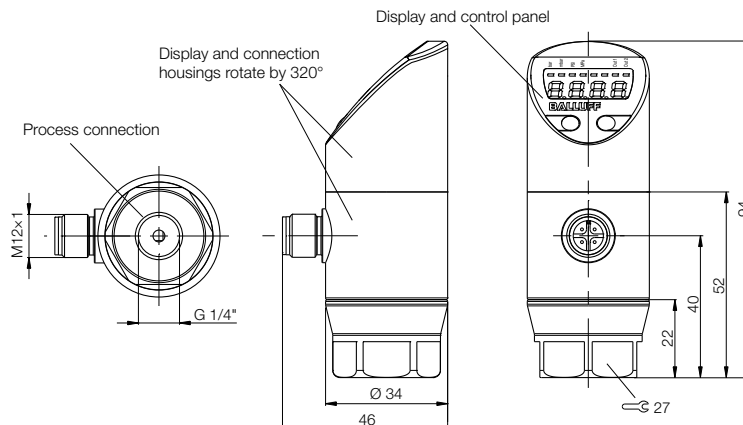
One programmable switching point and analog output 4...20 mA



BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration

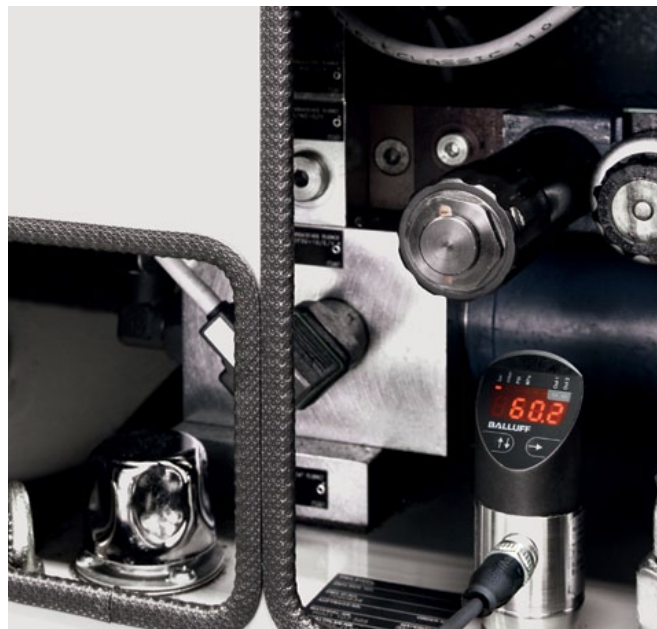
BSP004F	BSP004J	BSP004L
BSP004N	BSP004R	BSP004U
BSP004H	BSP004K	BSP004M
BSP005C*	BSP005H*	BSP005J*
BSP004P	BSP004T	BSP004W
BSP000F	BSP000T	BSP0014
BSP003K	BSP003P	BSP003W
BSP000H	BSP000U	BSP0015
BSP003L	BSP003R	BSP003Y
BSP000J	BSP000W	BSP0016
BSP001F	BSP001M	BSP001U
BSP000K	BSP000Y	BSP0017
BSP001H	BSP001N	BSP001W
BSP000L	BSP000Z	BSP0018
BSP001J	BSP001P	BSP001Y
BSP000M	BSP0010	BSP0019
BSP005E*		
BSP001K	BSP001R	BSP001Z
BSP000N	BSP0011	BSP001A
BSP005F*		
BSP001L	BSP001T	BSP0020
BSP000P	BSP0012	BSP001C
BSP003M	BSP003T	BSP003Z
BSP000R	BSP0013	BSP001E
BSP003N	BSP003U	BSP0040
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 G1/4" per DIN EN 3852	Internal thread G1/4" per DIN EN 3852	Internal thread G1/4" per DIN EN 3852

*Internal thread 1/4" NPT



Standard pressure sensors with IO-Link can be positioned in the machine right where the action is from a process technology standpoint. That is because the accessibility of the sensors loses its significance through IO-Link. Process monitoring, configuration and error analysis of the IO-Link devices now take place in the controller and this way processes are optimized. Signal delays and distortions are eliminated reliably. Digital transmission of data also ensures high signal quality.

- Reduced downtimes:
Simple sensor replacement with plug-and-play
- Maximum flexibility:
System conversion during ongoing operation
- Simple commissioning:
Complete parameter sets can be duplicated using IO-Link
- In-process diagnostics:
Process data and errors are reported directly to the controller via IO-Link



PNP pressure sensors

-1...2 bar (-14.5...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
-1...10 bar (-14.5...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...2 bar (0...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...5 bar (0...73 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...10 bar (0...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...20 bar (0...290 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...50 bar (0...725 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...100 bar (0...1450 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...250 bar (0...3626 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...400 bar (0...5802 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...600 bar (0...8702 psi)	PNP	Ordering code	
	NPN	Ordering code	
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		

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	vacuum proof
-1...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	
0...5 bar	73 psi	5 bar	145 psi	10 bar	218 psi	15 bar	
0...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...20 bar	290 psi	20 bar	580 psi	40 bar	1088 psi	75 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	3626 psi	250 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	6527 psi	450 bar	
0...400 bar	5802 psi	400 bar	9428 psi	650 bar	10153 psi	700 bar	
0...600 bar	8702 psi	600 bar	10878 psi	750 bar	11603 psi	800 bar	

BSP Pressure Sensors

Standard sensors with IO-Link



IO-Link
Two programmable switching points (NO or NC)



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

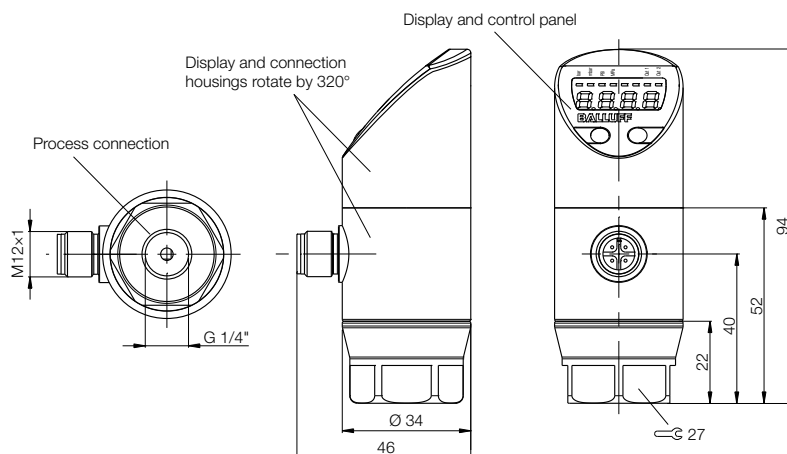


IO-Link
One programmable switching point and analog output 4...20 mA



BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration

BSP0086	BSP008L	BSP0091
BSP009U	BSP00C2	BSP009E
BSP0087	BSP008M	BSP0092
BSP009W	BSP00C3	BSP009F
BSP0088	BSP008N	BSP0093
BSP009Y	BSP00C4	BSP009H
BSP0089	BSP008P	BSP0094
BSP009Z	BSP00C5	BSP009J
BSP008A	BSP008R	BSP0095
BSP00A0	BSP00C6	BSP009K
BSP008C	BSP008T	BSP0096
BSP00A1	BSP00C7	BSP009L
BSP008E	BSP008U	BSP0097
BSP00A2	BSP00C8	BSP009M
BSP008F	BSP008W	BSP0098
BSP00A3	BSP00C9	BSP009N
BSP008H	BSP008Y	BSP0099
BSP00A4	BSP00CA	BSP009P
BSP008J	BSP008Z	BSP009A
BSP00A5	BSP00CC	BSP009R
BSP008K	BSP0090	BSP009C
BSP00A6	BSP00CE	BSP009T
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 G 1/4" per DIN EN 3852	Internal thread G 1/4" per DIN EN 3852	Internal thread G 1/4" per DIN EN 3852



BSP Pressure Sensors

Stainless Steel Sensors

Balluff pressure sensors with stainless steel housings are designed for the demanding requirements of extended temperature ranges and harsh environments. Parameters are configured quickly and easily in conformance with VDMA standards. Features of these sensors include:

- Extended temperature range
- Complete stainless steel housing
- Digital switching outputs
- Analog output



The stainless steel version of the BSP pressure sensors is enclosed in a two-way rotary housing for easier installation. Position the cable outlet as shown in the machine layout and turn the display in your viewing direction.



PNP pressure sensors

-1...2 bar (-14.5...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
-1...10 bar (-14.5...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...2 bar (0...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...5 bar (0...73 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...10 bar (0...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...20 bar (0...290 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...50 bar (0...725 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...100 bar (0...1450 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...250 bar (0...3626 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...400 bar (0...5802 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...600 bar (0...8702 psi)	PNP	Ordering code	
	NPN	Ordering code	
Supply voltage U_S			
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		

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	vacuum proof
-1...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	
0...5 bar	73 psi	5 bar	145 psi	10 bar	218 psi	15 bar	
0...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...20 bar	290 psi	20 bar	580 psi	40 bar	1088 psi	75 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	3626 psi	250 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	6527 psi	450 bar	
0...400 bar	5802 psi	400 bar	9428 psi	650 bar	10153 psi	700 bar	
0...600 bar	8702 psi	600 bar	10878 psi	750 bar	11603 psi	800 bar	

BSP Pressure Sensors

Stainless Steel Sensors



Two programmable switching points (NO or NC)



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

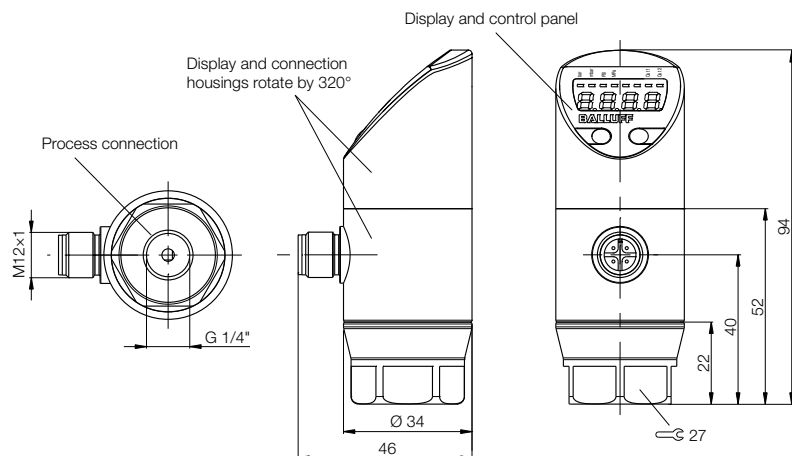


One programmable switching point and analog output 4...20 mA



BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration

BSP004Y	BSP0050	BSP0052
BSP0054	BSP0056	BSP0058
BSP004Z	BSP0051	BSP0053
BSP0055	BSP0057	BSP0059
BSP0021	BSP002A	BSP002N
BSP0041	BSP0045	BSP0049
BSP0022	BSP002C	BSP002P
BSP0042	BSP0046	BSP004A
BSP0023	BSP002E	BSP002R
BSP0031	BSP0036	BSP003C
BSP0024	BSP002F	BSP002T
BSP0032	BSP0037	BSP003E
BSP0025	BSP002H	BSP002U
BSP0033	BSP0038	BSP003F
BSP0026	BSP002J	BSP002W
BSP0034	BSP0039	BSP003H
BSP0027	BSP002K	BSP002Y
BSP0035	BSP003A	BSP003J
BSP0028	BSP002L	BSP002Z
BSP0043	BSP0047	BSP004C
BSP0029	BSP002M	BSP0030
BSP0044	BSP0048	BSP004E
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
-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+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)
Stainless steel	Stainless steel	Stainless steel
Ceramic	Ceramic	Ceramic
Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
Internal thread G 1/4" per DIN EN 3852	Internal thread G 1/4" per DIN EN 3852	Internal thread G 1/4" per DIN EN 3852



Stainless steel pressure sensors with IO-Link monitor cooling lubricant, hydraulic fluids and pneumatic systems. Using IO-Link, you continuously relay your measured values and data to the controller. You initiate the exact readjustment and thereby provide for the highest machine availability. IO-Link pressure sensors enable quick, error-free sensor replacement and prompt commissioning. Downtimes are significantly reduced since the parameters of a replaced IO-Link sensor are automatically transmitted from the IO-Link master to the new sensor. Commissioning processes, format changes or recipe changes are processed centrally via the controller's functional components. This saves time and reduces the potential for errors to a minimum.



PNP pressure sensors

-1...2 bar (-14.5...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
-1...10 bar (-14.5...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...2 bar (0...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...5 bar (0...73 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...10 bar (0...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...20 bar (0...290 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...50 bar (0...725 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...100 bar (0...1450 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...250 bar (0...3626 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...400 bar (0...5802 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...600 bar (0...8702 psi)	PNP	Ordering code	
	NPN	Ordering code	
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		

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	vacuum proof
-1...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	
0...5 bar	73 psi	5 bar	145 psi	10 bar	218 psi	15 bar	
0...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...20 bar	290 psi	20 bar	580 psi	40 bar	1088 psi	75 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	3626 psi	250 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	6527 psi	450 bar	
0...400 bar	5802 psi	400 bar	9428 psi	650 bar	10153 psi	700 bar	
0...600 bar	8702 psi	600 bar	10878 psi	750 bar	11603 psi	800 bar	

BSP Pressure Sensors

Stainless Steel Sensors with IO-Link



IO-Link
Two programmable switching points (NO or NC)



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

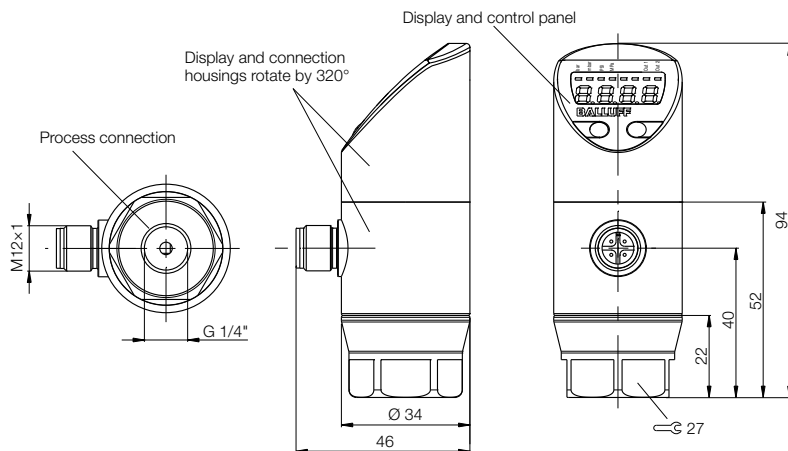


IO-Link
One programmable switching point and analog output 4...20 mA



BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration

BSP00CF	BSP00AM	BSP00A7
BSP00CW	BSP00E8	BSP00EN
BSP00CH	BSP00AN	BSP00A8
BSP00CY	BSP00E9	BSP00EP
BSP00CJ	BSP00AP	BSP00A9
BSP00CZ	BSP00EA	BSP00ER
BSP00CK	BSP00AR	BSP00AA
BSP00E0	BSP00EC	BSP00ET
BSP00CL	BSP00AT	BSP00AC
BSP00E1	BSP00EE	BSP00EU
BSP00CM	BSP00AU	BSP00AE
BSP00E2	BSP00EF	BSP00EW
BSP00CN	BSP00AW	BSP00AF
BSP00E3	BSP00EH	BSP00EY
BSP00CP	BSP00AY	BSP00AH
BSP00E4	BSP00EJ	BSP00EZ
BSP00CR	BSP00AZ	BSP00AJ
BSP00E5	BSP00EK	BSP00F0
BSP00CT	BSP00C0	BSP00AK
BSP00E6	BSP00EL	BSP00F1
BSP00CU	BSP00C1	BSP00AL
BSP00E7	BSP00EM	BSP00F2
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
-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+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)
Stainless steel	Stainless steel	Stainless steel
Ceramic	Ceramic	Ceramic
Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
Internal thread G 1/4" per DIN EN 3852	Internal thread G 1/4" per DIN EN 3852	Internal thread G 1/4" per DIN EN 3852



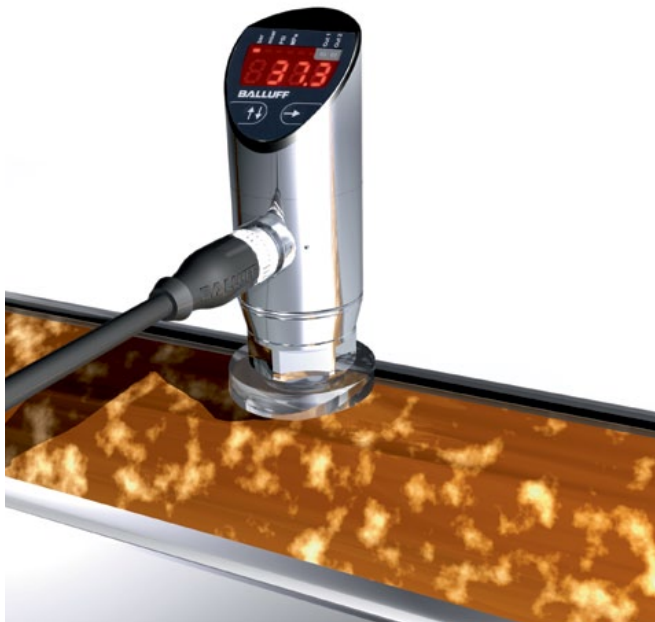
BSP Pressure Sensors

Flush-mounted Stainless Steel Sensors

Flush-mounted BSP pressure sensors are ideally suited for pressure measurement in viscous, paste-like, crystallizing or solids-containing media. This makes them suitable for pressure measurement of adhesives, greases, sealants or often changing media. With their flush-mounted, welded stainless steel membrane, they have no dead spaces and can be easily cleaned.

Benefits

- Completely free of dead space
- No gaskets or offsets in the process
- Flush-mounted, welded stainless steel membrane
- Easy to clean



The connection to your process is made via a 1/2" external thread in accordance with DIN EN 3852. Other process connections, such as TriClamp, Varivent, etc., are available on request.



PNP pressure sensors

-1...2 bar (-14.5...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
-1...10 bar (-14.5...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...2 bar (0...29 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...5 bar (0...73 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...10 bar (0...145 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...20 bar (0...290 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...50 bar (0...725 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...100 bar (0...1450 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...250 bar (0...3626 psi)	PNP	Ordering code	
	NPN	Ordering code	
0...400 bar (0...5802 psi)	PNP	Ordering code	
	NPN	Ordering code	
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		

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	145 psi	10 bar	217 psi	15 bar	vacuum proof
-1...10 bar	145 psi	10 bar	580 psi	40 bar	725 psi	50 bar	
0...2 bar	29 psi	2 bar	145 psi	10 bar	217 psi	15 bar	
0...5 bar	73 psi	5 bar	580 psi	40 bar	725 psi	50 bar	
0...10 bar	145 psi	10 bar	580 psi	40 bar	725 psi	50 bar	
0...20 bar	290 psi	20 bar	1160 psi	80 bar	1740 psi	120 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	4350 psi	300 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	10875 psi	750 bar	
0...400 bar	5802 psi	400 bar	9428 psi	600 bar	14500 psi	1000 bar	

BSP Pressure Sensors

Flush-mounted Stainless Steel Sensors



Two programmable switching points (NO or NC)



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



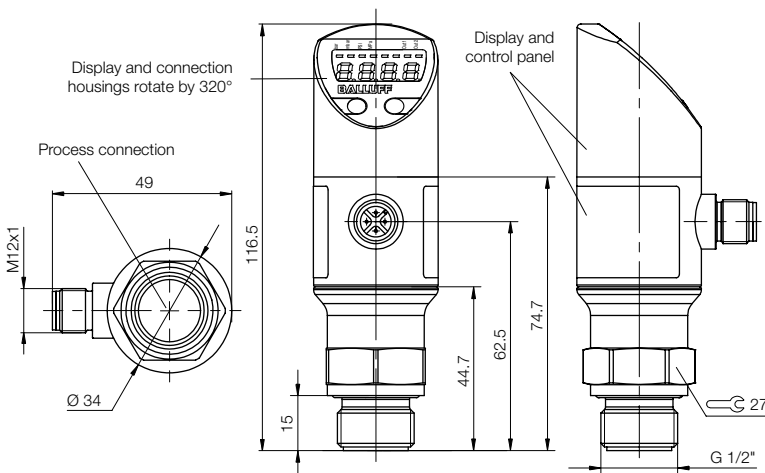
One programmable switching point and analog output 4...20 mA



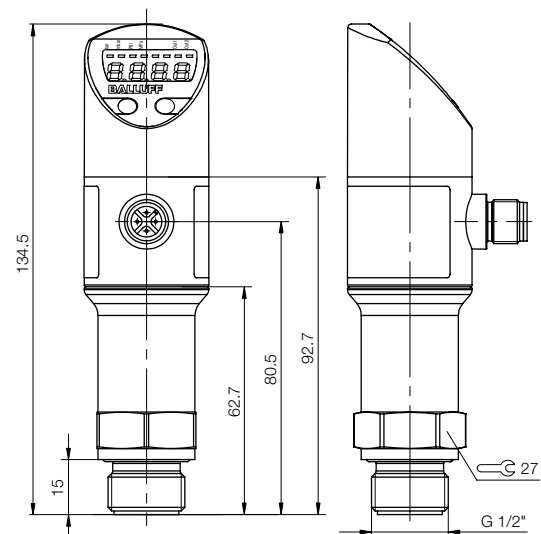
BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration

BSP005M	BSP006F	BSP0062
BSP006W	BSP007N	BSP0078
BSP005N	BSP006H	BSP0063
BSP006Y	BSP007P	BSP0079
BSP005P	BSP006J	BSP0064
BSP006Z	BSP007R	BSP007A
BSP005R	BSP006K	BSP0065
BSP0070	BSP007T	BSP007C
BSP005T	BSP006L	BSP0066
BSP0071	BSP007U	BSP007E
BSP005U	BSP006M	BSP0067
BSP0072	BSP007W	BSP007F
BSP005W	BSP006N	BSP0068
BSP0073	BSP007Y	BSP007H
BSP005Y	BSP006P	BSP0069
BSP0074	BSP007Z	BSP007J
BSP005Z	BSP006R	BSP006A
BSP0075	BSP0080	BSP007K
BSP0060	BSP006T	BSP006C
BSP0076	BSP0081	BSP007L
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
-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+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)
Stainless steel	Stainless steel	Stainless steel
Ceramic	Ceramic	Ceramic
Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
G½" per DIN EN 3852	G½" per DIN EN 3852	G½" per DIN EN 3852

Variants up to 50 bar



Variants 100 bar and higher



BSP Pressure Sensors

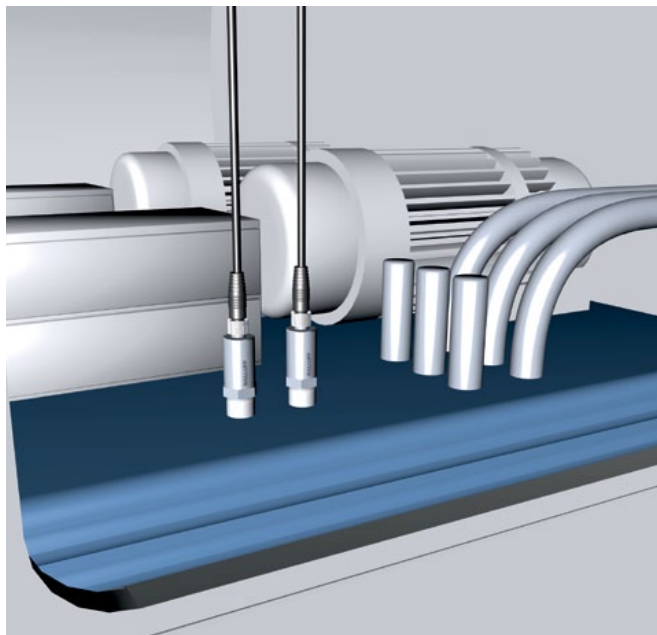
Pressure transmitters

Voltage output 0...10 V DC

Compact pressure transmitters stand for continuously reliable pressure measurement. They are compact and installed right where the action is. Balluff pressure transmitters feature an impressive price/performance ratio and solve a wide variety of tasks in factory automation.

Applications

- Machine tools
- Hydraulics and pneumatics
- Pumps and compressors



Voltage output 0...10 V DC

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

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	vacuum proof
-1...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	
0...5 bar	73 psi	5 bar	145 psi	10 bar	218 psi	15 bar	
0...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...20 bar	290 psi	20 bar	580 psi	40 bar	1015 psi	70 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	4350 psi	300 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	10875 psi	750 bar	
0...400 bar	5802 psi	400 bar	9428 psi	1200 bar	21750 psi	1500 bar	
0...600 bar	8702 psi	600 bar	10878 psi	1200 bar	21750 psi	1500 bar	

BSP Pressure Sensors

Pressure transmitters

Voltage output 0...10 V DC



Process connection
G1/4"



Process connection
NPT1/4"



Process connection
R1/4"

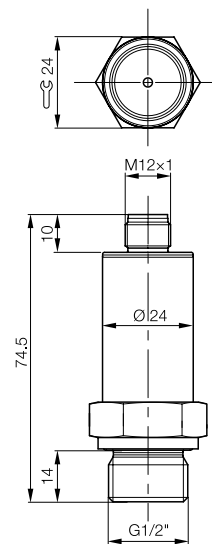
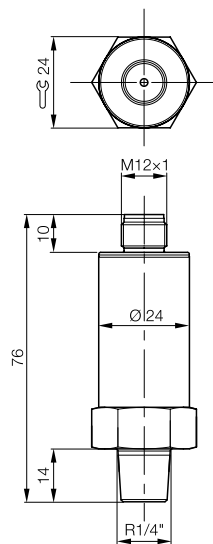
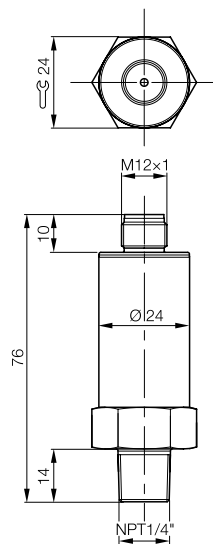
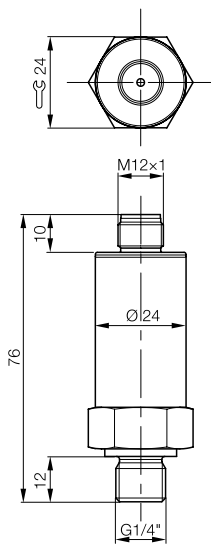


Process connection
G1/2"

BSP00JE	BSP00JU	BSP00K7	BSP00KM
BSP00JF	BSP00JW	BSP00K8	BSP00KN
BSP00JH	BSP00JY	BSP00K9	BSP00KP
BSP00JJ	BSP00JZ	BSP00KA	BSP00KR
BSP00JK	BSP00K0	BSP00KC	BSP00KT
BSP00JL	BSP00K1	BSP00KE	BSP00KU
BSP00JM	BSP00K2	BSP00KF	BSP00KW
BSP00JN	BSP00K3	BSP00KH	BSP00KY
BSP00JP	BSP00K4	BSP00KJ	BSP00KZ
BSP00JR	BSP00K5	BSP00KK	BSP00L0
BSP00JT	BSP00K6	BSP00KL	BSP00L1
10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
≤ 20 mA	≤ 20 mA	≤ 20 mA	≤ 20 mA
≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL
≤ ±0.5 % FSO/10 K	≤ ±0.3 % FSO/10 K	≤ ±0.3 % FSO/10 K	≤ ±0.3 % FSO/10 K
Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C
IP 67 (when screwed into place)	IP 67 (when screwed into place)	IP 67 (when screwed into place)	IP 67 (when screwed into place)
> 100 mil.	> 100 mil.	> 100 mil.	> 100 mil.
Stainless steel	Stainless steel	Stainless steel	Stainless steel
Ceramic	Ceramic	Ceramic	Ceramic
Fluoroelastomer	Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
G1/4" per DIN EN 3852	NPT1/4"	R1/4"	G1/2" per DIN EN 3852



BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration



BSP Pressure Sensors

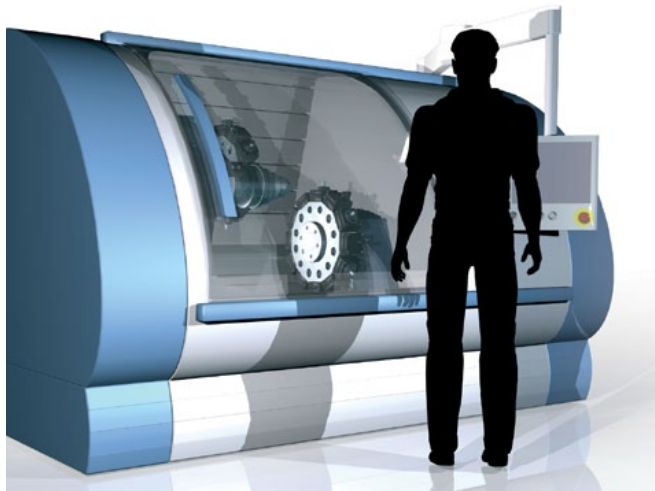
Pressure transmitters

Current output 4...20 mA

BSP pressure transmitters provide a rugged stainless steel housing, reliable measurement technology and a large temperature range from -40 to 125 °C. This enables reliable operation and a long service life. Choose between eleven different pressure ranges, voltage or current output and various process connections for the appropriate sensor.

Benefits

- Extended temperature range
- Rugged metal housing
- Large product selection



Current output 4...20 mA

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

Wiring diagrams see page 40.

Design	Relative nominal pressure		Overload pressure		Burst pressure \geq		Permitted vacuum
-1...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	vacuum proof
-1...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...2 bar	29 psi	2 bar	58 psi	4 bar	145 psi	10 bar	
0...5 bar	73 psi	5 bar	145 psi	10 bar	218 psi	15 bar	
0...10 bar	145 psi	10 bar	290 psi	20 bar	508 psi	35 bar	
0...20 bar	290 psi	20 bar	580 psi	40 bar	1015 psi	70 bar	
0...50 bar	725 psi	50 bar	1450 psi	100 bar	2176 psi	150 bar	
0...100 bar	1450 psi	100 bar	2900 psi	200 bar	4350 psi	300 bar	
0...250 bar	3626 psi	250 bar	5802 psi	400 bar	10875 psi	700 bar	
0...400 bar	5802 psi	400 bar	17400 psi	1200 bar	21750 psi	1500 bar	
0...600 bar	8702 psi	600 bar	17400 psi	1200 bar	21750 psi	1500 bar	

BSP Pressure Sensors

Pressure transmitters

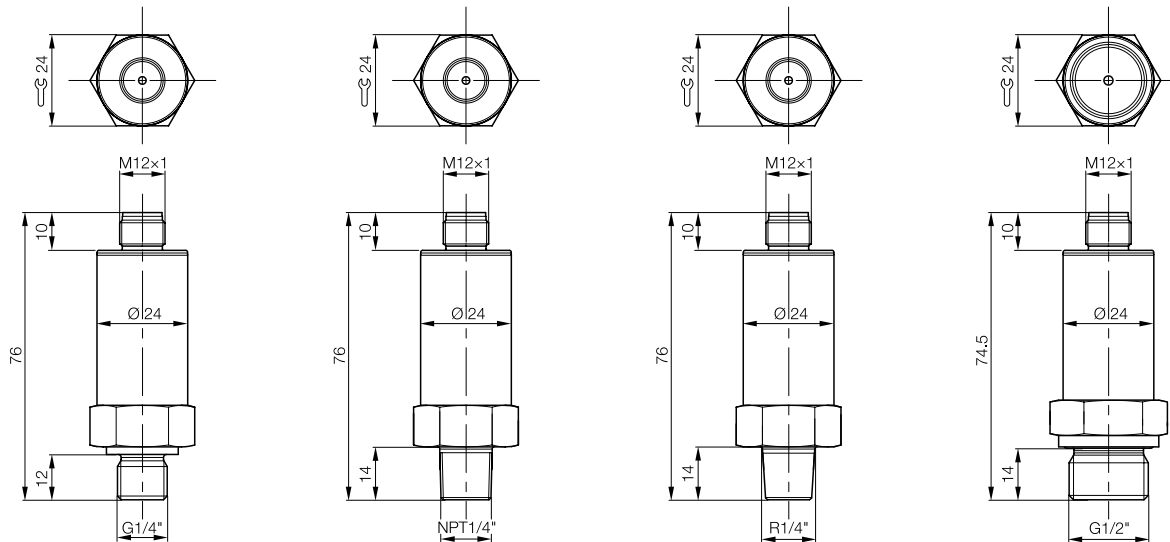
Current output 4...20 mA



BSP00FW	BSP00H7	BSP00HM	BSP00J2
BSP00FY	BSP00H8	BSP00HN	BSP00J3
BSP00FZ	BSP00H9	BSP00HP	BSP00J4
BSP00H0	BSP00HA	BSP00HR	BSP00J5
BSP00H1	BSP00HC	BSP00HT	BSP00J6
BSP00H2	BSP00HE	BSP00HU	BSP00J7
BSP00H3	BSP00HF	BSP00HW	BSP00J8
BSP00H4	BSP00HH	BSP00HY	BSP00FT
BSP00H5	BSP00HJ	BSP00HZ	BSP00J9
BSP00F3	BSP00HK	BSP00J0	BSP00JA
BSP00H6	BSP00HL	BSP00J1	BSP00JC
8...32 V DC	8...32 V DC	8...32 V DC	8...32 V DC
≤ 25 mA	≤ 25 mA	≤ 25 mA	≤ 25 mA
≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL
≤ ±0.5% FSO/10 K	≤ ±0.3 % FSO/10 K	≤ ±0.3 % FSO/10 K	≤ ±0.3 % FSO/10 K
Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C	-40...+85 °C/-40...+125 °C
IP 67 (when screwed into place)	IP 67 (when screwed into place)	IP 67 (when screwed into place)	IP 67 (when screwed into place)
> 100 mil.	> 100 mil.	> 100 mil.	> 100 mil.
Stainless steel	Stainless steel	Stainless steel	Stainless steel
Ceramic	Ceramic	Ceramic	Ceramic
Fluoroelastomer	Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
G1/4" per DIN EN 3852	NPT1/4"	R1/4"	G1/2" per DIN EN 3852



BSP Pressure Sensors
Standard sensors
Standard sensors with IO-Link
Stainless steel sensors
Stainless steel sensors with IO-Link
Flush-mounted stainless steel sensors
Pressure transmitters
Special pressure sensors
Calibration



Special Pressure Sensors

Individual, fully customized products

If desired, we will adapt catalog products individually to your requirements. Our spectrum ranges from preassembly to engineering services to simple housing modifications. We do this completely according to your specifications. This enables the best solutions for your application.

Benefits

- Quick and transparent feasibility check
- Solution for your application
- Customized products secure your competitive advantage
- Highest feasibility without compromises

Resistant to hydrochloric acid – an example from the real world

The standard version of BSP pressure sensors is ideally suited for use in a steel plant. For example, for monitoring the coolant in a rolling stand or the pressure in hydraulic drives. From -25 to 125 °C. With the wide variety of pressure ranges and output signals you can handle almost any task.

Ideal for the steel industry, the pressure sensors have an acid-resistant process connection made from PVDF and can reliably monitor cleaning processes during surface finishing.



Pressure ranges	-1...50 bar	
Supply voltage U_B	18...36 V DC	
Switching frequency f max.	200 Hz	
Accuracy	$\leq \pm 0.5\%$ FSO BFSL	
Temperature error	$\leq \pm 0.3\%$ FSO/10 K	
Ambient/media temperature	-25...+85 °C/-25...+125 °C	
Degree of protection per IEC 60529	IP 67 (when screwed into place)	
Material	Housing	PA 6.6 and stainless steel
	Measuring cell	Ceramic
	Seal	Fluoroelastomer
	Process connection	PVDF
Connection	Plug connector	M12 connector, 4-pin
	Process connection	G $\frac{1}{2}$ " per DIN EN 3852



With an acid-resistant process connection made from PVDF, the sensor can even be used in adverse conditions such as those experienced during surface finishing for steel production.

Calibration of Pressure Sensors

**Send us your pressure sensors for inspection.
And build upon our manufacturing expertise.**

Regular calibration of pressure sensors is becoming increasingly important for legal, technical and quality assurance-related reasons.

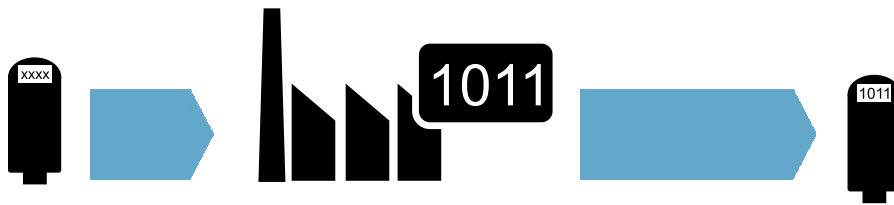
As a manufacturer, we offer professional support. For instance, we inspect and calibrate your pressure sensors directly at our plant. Once per year—to maintain quality standards.

You receive a bilingual certificate of the factory calibration for measuring ranges from -1 to 600 bar for your records. Take advantage of our manufacturing expertise and stay on the safe side.

Benefits

- Calibration directly at the manufacturer
- 6-point factory calibration
- Uniform, high process quality

Order with **BSS CAL**



BSP
Pressure
Sensors
Standard
sensors
Standard
sensors
with IO-Link
Stainless steel
sensors
Stainless steel
sensors
with IO-Link
Flush-
mounted
stainless steel
sensors
Pressure
transmitters
**Special
pressure
sensors
Calibration**





Accessories

Accessories – A Selection

Fitting accessories are the optimal peripherals for sensors. We provide reliable products for time and cost-saving integration into your automation system and for reliable operation. We have put together a selection for you from our comprehensive product line.



Accessories – A Selection

Contents

Connectors	30
Adapters and fasteners	32



Basic information and definitions can be found on page 38.



Accessories — A Selection

M12 female straight and right-angle, 4-pin

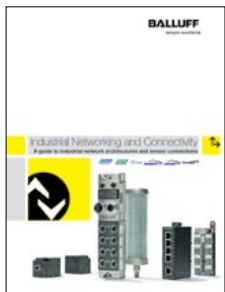


Connector diagram and wiring

Max. supply voltage AC U_B	
Max. supply voltage DC U_B	
Cable	
Number of wires × cross-section	
Degree of protection per IEC 60529	
Ambient temperature T_a static/moving	PUR PUR shielded
Use	

Cable material		Color	Length
PUR		Black	2 m
PUR		Black	5 m
PUR		Black	10 m
PUR shielded		Black	2 m
PUR shielded		Black	5 m
PUR shielded		Black	10 m

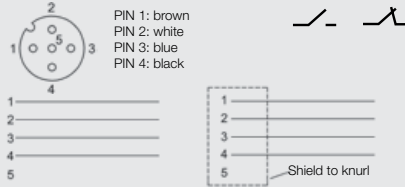
Other cable materials, colors and lengths on request.
 Connectors without LED are suitable for PNP and NPN switching functions.
 NPN versions on request.



You will find many additional products in our total product line: “Industrial Networking and Connectivity – A guide to industrial network architectures and sensor connections”, or online at: www.balluff.com

Accessories — A Selection

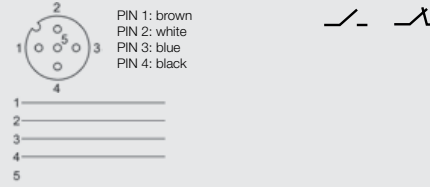
M12 female straight and right-angle, 4-pin



250 V AC
250 V DC
Molded
4x0.34 mm²
IP 68
-40...+90 °C/-25...+90 °C (UL 80° C)
-40...+80 °C/-25...+80 °C
Complementary (NO/NC) \swarrow -/ \swarrow

Ordering code

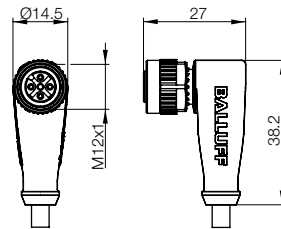
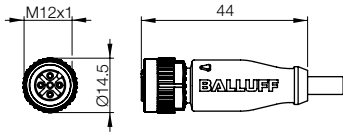
BCC032F
BCC032H
BCC032J
BCC032K
BCC032L
BCC032M



250 V AC
250 V DC
Molded
4x0.34 mm²
IP 68
-40...+90 °C/-25...+90 °C (UL 80° C)
-40...+80 °C/-25...+80 °C
Complementary (NO/NC) \swarrow -/ \swarrow

Ordering code

BCC032Y
BCC032Z
BCC0330
BCC0331
BCC0332
BCC0333



Accessories –
A Selection
Connectors
Adapters and
fasteners

Accessories – A Selection

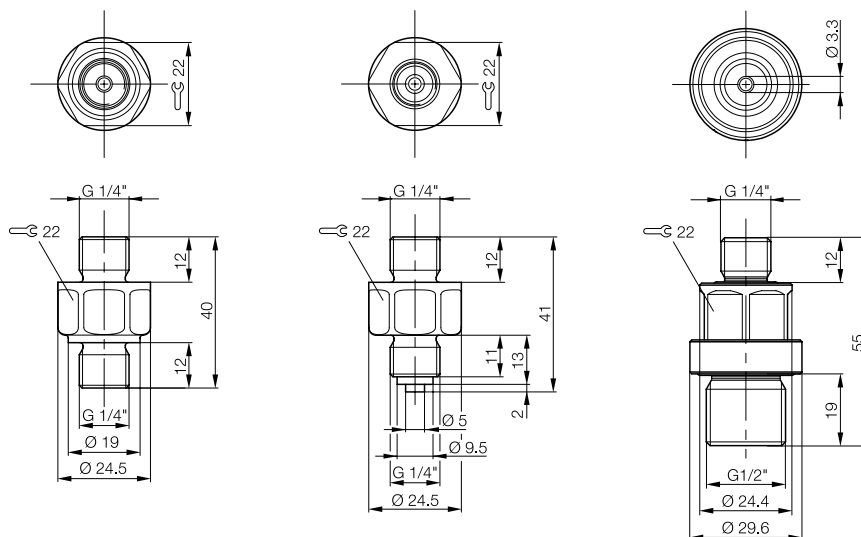
Adapters and fasteners



Manometer screw connection per DIN EN 837



Description		Adapter G 1/4"	Adapter G 1/4"	Adapter G 1/2"
Ordering code		BAM01KP	BAM01KR	BAM01UJ
Housing material		Stainless steel	Stainless steel	Stainless steel
Connection	Sensor-side	G 1/4" per DIN EN 3852	G 1/4" per DIN EN 3852	G 1/4" per DIN EN 3852
	Process-side	G 1/4" per DIN EN 3852	G 1/4" per DIN EN 837	G 1/2" per DIN EN 3852



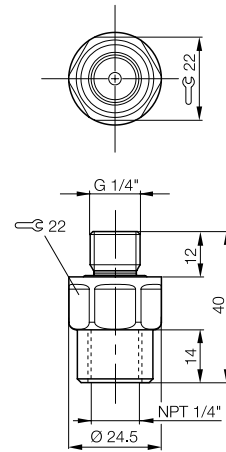
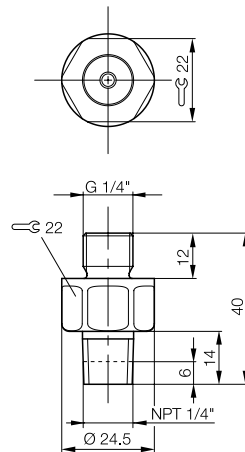
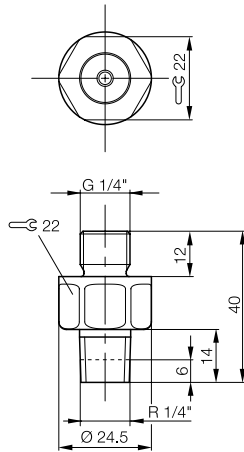
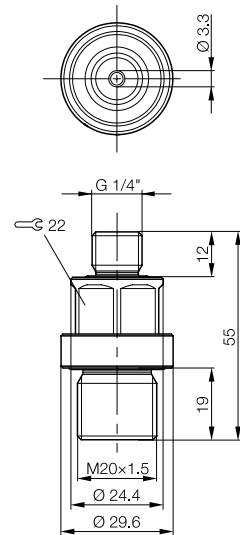
BSP pressure sensors can be adapted to different process connections using adapters. **Other adapters on request.**

Accessories – A Selection

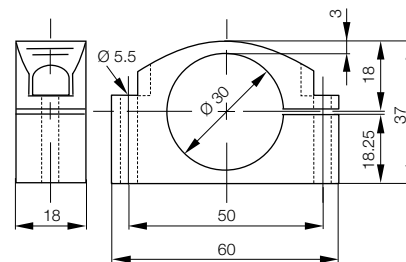
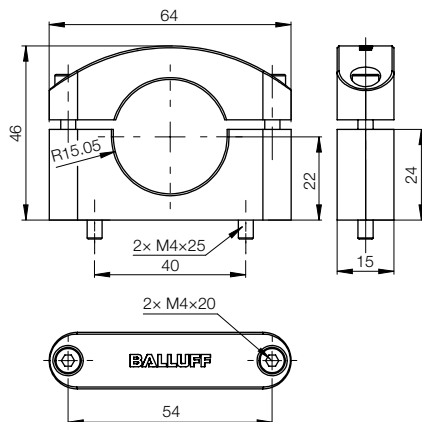
Adapters and fasteners

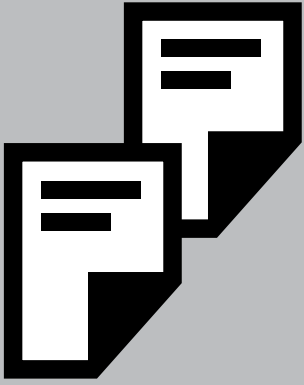


Adapter M20x1.5	Adapter R1/4"	Adapter NPT1/4"	Adapter NPT1/4" Internal thread
BAM0209	BAM01RP	BAM01KT	BAM01TR
Stainless steel	Stainless steel	Stainless steel	Stainless steel
G1/4" per DIN EN 3852	G1/4" per DIN EN 3852	G1/4" per DIN EN 3852	G1/4" per DIN EN 3852
M20x1.5	R1/4"	NPT1/4"	Internal thread NPT1/4"

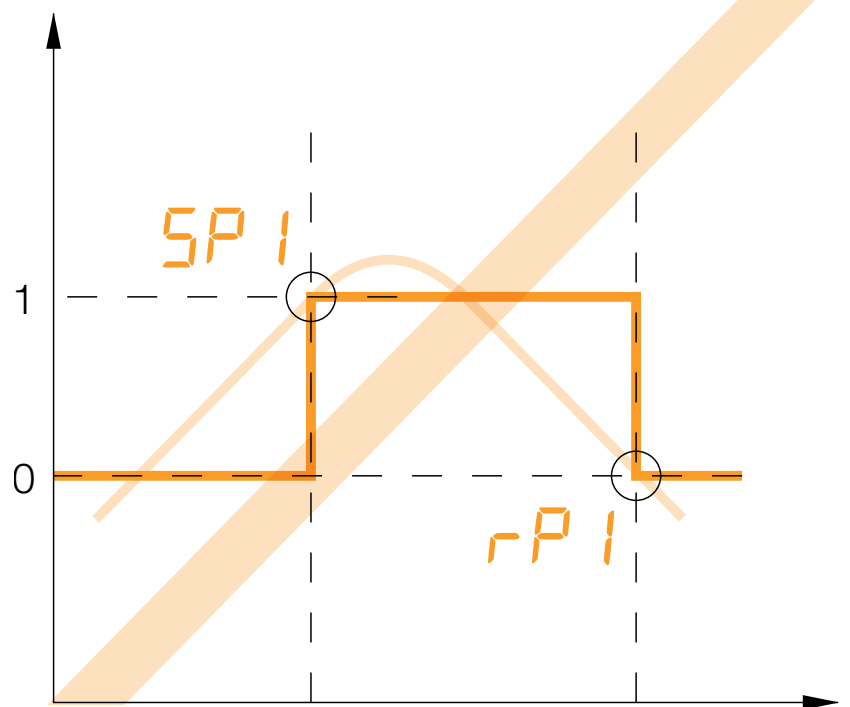


Description	Wall mount for BSP pressure sensors	Wall mount for BSP pressure sensors
Version	Two-piece retaining clip, metal	One-piece retaining clip, plastic
Ordering code	BAM01U0	BAM0110
Housing material	Anodized aluminum	PA 6.6 (fiberglass reinforced)





Basic Information and Definitions





Basic Information and Definitions

Contents

Quality and environmental management	36
Specific basic information for pressure sensors	37
Electrical properties	40
Mechanical properties	41
Configuring and adjusting sensors	42



Basic Information and Definitions

Quality and environmental management

Quality management system per DIN EN ISO 9001:2008

Balluff companies	
Balluff GmbH	Germany
Balluff SIE Sensorik GmbH	Germany
Balluff Controles Eléctricos Ltda.	Brazil
Balluff Sensors (Chengdu) Co., Ltd.	China
Balluff Ltd.	Great Britain
Balluff Automation S.R.L.	Italy
Balluff Canada Inc.	Canada
Balluff de México S.A. de C.V.	Mexico
Balluff GmbH	Austria
Balluff Sp. z o.o.	Poland
Balluff Hy-Tech AG	Switzerland
Balluff Sensortechnik AG	Switzerland
Balluff S.L.	Spain
Balluff CZ, s.r.o	Czech Republic
Balluff Elektronika Kft.	Hungary
Balluff Inc.	USA



Environmental management system per DIN EN ISO 14001:2009

Balluff companies	
Balluff GmbH	Germany
Balluff Sensors (Chengdu) Co., Ltd.	China
Balluff Elektronika KFT	Hungary

Testing laboratory

The Balluff testing laboratory operates in accordance with ISO/IEC 17025 and is accredited by the German Accreditation Body (DAKKS) for testing electromagnetic compatibility (EMC).



Balluff products comply with EU directives

Products that require labeling are subject to a conformity evaluation process according to the EU directive and the product is labeled with the CE marking. Balluff products fall under the following EU directive:

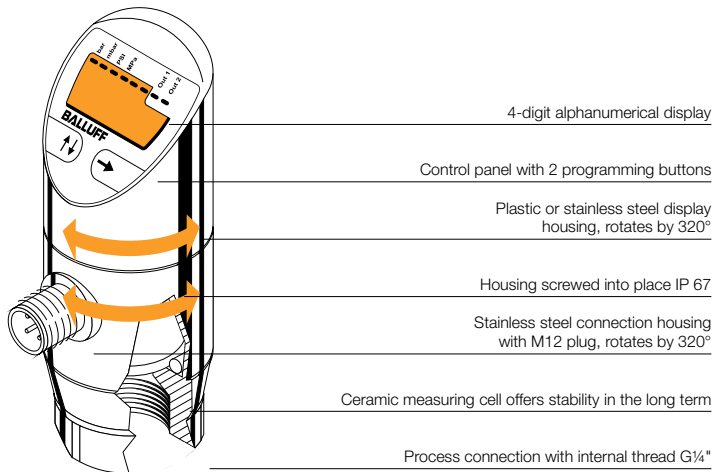


2004/108/EC	EMC directive
2006/95/EC	Low Voltage Directive valid for products with supply voltage ≥ 75 V DC/ ≥ 50 V AC

Basic Information and Definitions

Specific basic information for pressure sensors

Sensor design



Function principle

Balluff pressure sensors convert the physical pressure variable (force per surface) into an electrical output variable that serves as a pressure indicator. This conversion is made with a ceramic membrane. The electrical signal is amplified and linearized and interfering factors such as temperature are compensated.

Pressure characteristics

Absolute pressure: The absolute pressure is the pressure in relation to zero pressure (vacuum). The value range of absolute pressure is always positive.

Relative pressure: Pressure is usually measured in relation to the actual atmospheric pressure. For pressures greater than the air pressure, positive values are obtained for the measurements. For pressures less than the air pressure, negative values.

Nominal pressure: This corresponds to the maximum design pressure.

Burst pressure: Minimum pressure that the pressure sensor must withstand without being destroyed. If this pressure is exceeded, expect pressurized components to crack, the device to leak, or internal mechanisms to be destroyed.

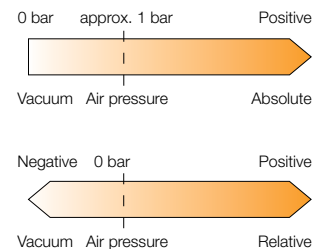
Pressure peaks: Pressure load pulses that can be several times the measured pressure.

Material characteristics

Incompressible material: Changes in the pressure of fluids such as water and hydraulic fluid do not initially have an effect on volume. These materials are classed as incompressible.

Compressible material: Typical compressible materials include gases, which decrease in volume when their pressure increases.

Material temperature: This indicates the permitted temperature range of the pressurized material.



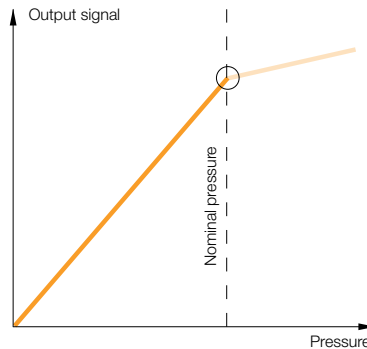
Basic Information and Definitions
 Quality and environmental management
 Specific basic information for pressure sensors
 Electrical properties
 Mechanical properties
 Configuring and adjusting sensors

Basic Information and Definitions

Specific basic information for pressure sensors

Characteristic

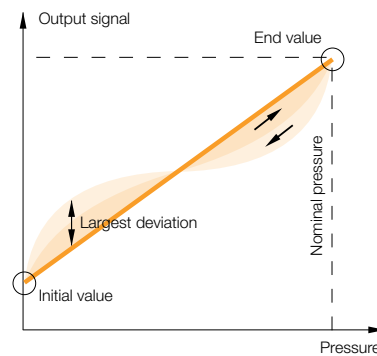
This describes the relationship between the measured and output variable. With pressure sensors, this indicates how dependent the output signal is on the pressure. In an ideal scenario, the characteristic should be a straight line.



Accuracy

The accuracy indicates how much the actual characteristic can deviate from the ideal characteristic (according to IEC 60770 nonlinearity, hysteresis and reproducibility). Accuracy specifications represent a percentage value of the measurement range (FSO) and never include dimensions.

Nominal pressure 50 bar
Accuracy 0.5 %
Max. deviation 0.25 bar



Measuring range

Working range with specific tolerances within which the measured deviation lies.

Full scale end value (FS)

Maximum measuring variable to which a device is adjusted, e.g. 20 mA.

Full scale output (FSO)

The range represents the difference between the upper and lower limit values of the display range. Example: A pressure sensor with a measuring range of 0...6 bar and a corresponding output signal of 4...20 mA has an FSO of 16 mA

Response time

The time between the change in pressure and the change in the switching output status.

Reproducibility

Repeat accuracy of two measurements under standardized conditions.

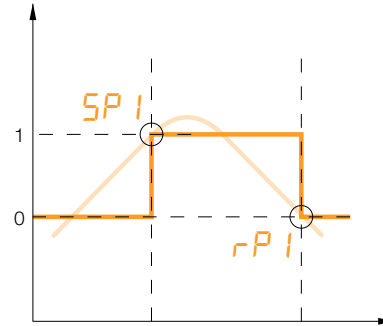
Basic Information and Definitions

Specific basic information for pressure sensors

Hysteresis, adjustable

The difference between the switching point (SP) and return point (rP) is known as hysteresis. On electronic pressure switches, any hysteresis can be selected within the measuring range.

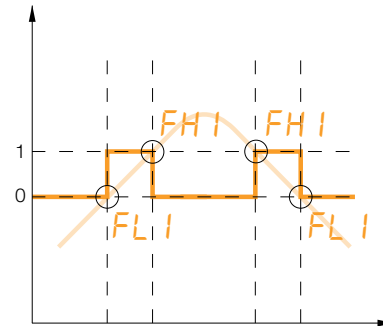
Hysteresis function: The hysteresis keeps the switching status of the outputs stable, even if the system pressure fluctuates around the setpoint value. The output is activated when the system pressure rises and the relevant switching point (SP) is reached. The output is deactivated when the pressure decreases again and the return point (rP) is reached.



Window, adjustable

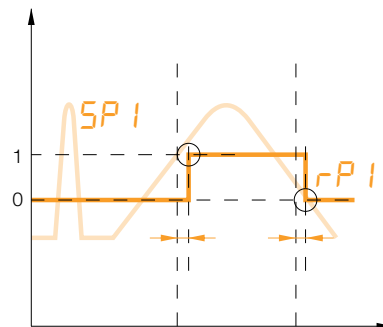
The output function is activated when the measured value falls between the preset switching and return point.

Window function: The range between a defined lower pressure limit and a defined upper limit is known as a window. A switching operation is initiated as soon as the upper or lower limit of the programmed pressure range is exceeded.



Delay times

Delay times can reliably filter out undesired pressure peaks that occur momentarily. The status of the switching output does not change immediately after the switching event occurs, but only once a preselected delay time of 0...50 s has elapsed. If the switching event no longer exists by the time the delay has elapsed, the switching output does not change.



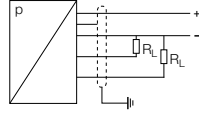
Basic Information and Definitions
 Quality and environmental management
Specific basic information for pressure sensors
 Electrical properties
 Mechanical properties
 Configuring and adjusting sensors

Basic Information and Definitions

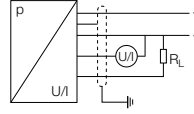
Electrical properties

Switching function

4-wire pressure sensors with switching output



4-wire pressure sensors with analog output



Pin assignments

Electrical connections	Pressure sensors with switching output	Pressure sensors with analog output
Supply +	1	1
Supply -	3	3
Signal +		2
Switching output 1	4	4
Switching output 2	2	
Shield	Connector housing	Connector housing

Supply voltage U_B

This is the voltage range in which flawless functioning of the sensor is assured. It includes all voltage tolerances and residual ripples.

Output current max.

This is the maximum current with which the output of the sensor may be loaded in continuous operation.

No-load supply current I_0 max.

This is the intrinsic current consumption of the sensor at maximum supply voltage U_S with no switched load.

Short-circuit protection and overload protection

All DC sensors feature this protection device. In the event of overload or short-circuit at the output, the output transistor is automatically switched off. As soon as the malfunction has been corrected, the output stage is reset to normal functioning.

Polarity reversal protection

The sensor electronics are protected against possible polarity reversal or interchanging of the connection wires.

Ambient temperature T_a

The device operates reliably within this temperature range. The ambient temperature of the device must remain within the range specified on the relevant data sheet and must not exceed the upper or lower range limits.

Temperature drift

Shift of the switching point caused by a change in the ambient temperature.

Switching frequency f max.

This is a succession of periodically repeating sensor switching cycles that occur during a specified time interval (1 second).

Basic Information and Definitions

Mechanical properties

Materials

Material	Use and characteristics
Plastics	
PA 6.6 Polyamide	Good mechanical strength. Temperature resistance.
FKM Fluoroelastomer	Resistant to pressure deformation. Temperature resistance. Good chemical resistance.
PUR Polyurethane	Elastic, abrasion-resistant, impact-resistant. Good resistance to oils, greases, solvents (used for gaskets and cable jackets).
TROGAMID®	Very good strength and chemical resistance. UV-resistant and continuously transparent. High dynamic resistance.
Metal	
Stainless steel	Excellent corrosion resistance and strength. Quality 304: Standard material for the foods industry.
Al Wrought aluminum alloy	Standard aluminum for cut shaping. Can be anodized. Used for housings and mounting components.
Other	
Ceramic	Very good strength and chemical resistance. Electrically insulating. Excellent temperature resistance.

Degree of protection

The degrees of protection are given according to IEC 60529. Code letters IP (International Protection) designate protection for electrical equipment against shock hazard, ingress of solid foreign bodies and water

First digit:

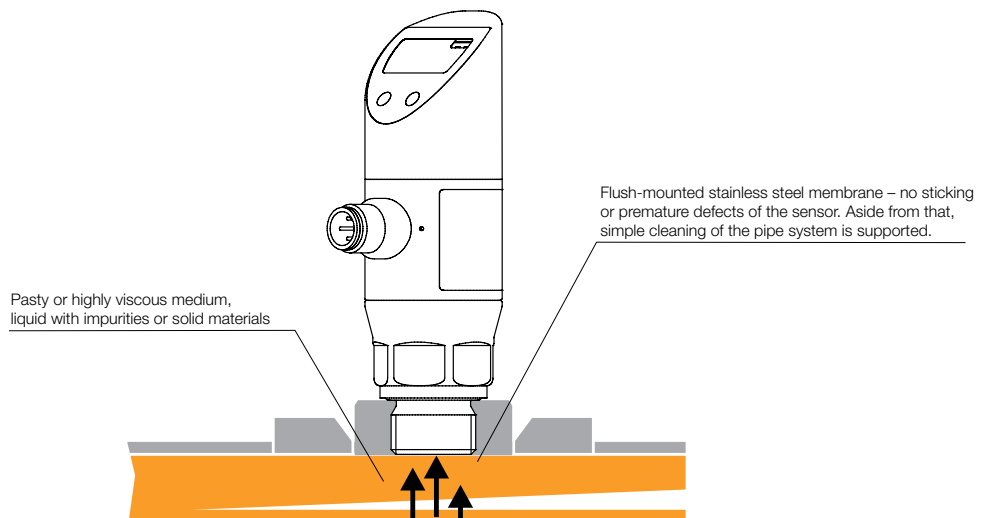
- 2 Protection against penetration of solid bodies larger than 12 mm, shielding from fingers and objects
- 4 Protection against penetration of solid bodies larger than 1 mm, shielding from tools and wires
- 5 Protection against harmful dust deposits, complete shock-hazard protection
- 6 Protection against penetration of dust, complete shock-hazard protection

Second digit:

- 0 No special protection
- 4 Protection against water spraying from all directions against the equipment
- 5 Protection against a water jet from a nozzle striking the device from any direction
- 7 Protection against water when the device (housing) is temporarily immersed
- 8 Protection against water during prolonged immersion

Flush-mounted pressure sensors

With the flush-mounted, welded stainless steel membrane, the sensors have no dead spaces and are particularly easy to clean. They are ideally suited for pressure measurement in viscous, paste-like, crystallizing or solids-containing media. A G $\frac{1}{2}$ " external thread according to DIN EN 3852 serves as process connection.

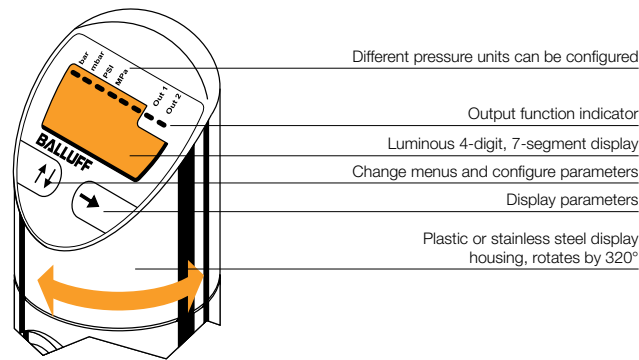


Basic Information and Definitions
Quality and environmental management
Specific basic information for pressure sensors
Electrical properties
Mechanical properties
Configuring and adjusting sensors

Basic Information and Definitions

Configuring and adjusting sensors

Display



	Description	ASCII		Description	ASCII
<i>SP 1</i>	Switching point (1)	SP1	<i>Hnc</i>	NC with hysteresis function	HNC
<i>rP 1</i>	Return point (1)	RP1	<i>Fnc</i>	NC with window function	HNC
<i>SP 2</i>	Switching point (2)	SP2	<i>Un ,</i>	Unit selection	Uni
<i>rP 2</i>	Return point (2)	RP2	<i>bar</i>	Unit bar	bar
<i>FH 1</i>	Pressure window, upper value (1)	FH1	<i>MPa</i>	Unit MPa	MPa
<i>FL 1</i>	Pressure window, lower value (1)	FL1	<i>Pa</i>	Unit Pa	Pa
<i>FH 2</i>	Pressure window, upper value (2)	FH2	<i>PS ,</i>	Unit psi	psi
<i>FL 2</i>	Pressure window, lower value (2)	FL2	<i>FL ,P</i>	Turn display	Flip
<i>EF</i>	Extended function	EF	<i>Lo</i>	Min. value	LO
<i>rES</i>	Reset	RES	<i>Hi</i>	Max. value	HI
<i>dS 1</i>	Switching delay time (1)	dS1	<i>SEt0</i>	Zero point adjustment	SETO
<i>dS 2</i>	Switching delay time (2)	dS2	<i>dAP</i>	Measured value damping	dAP
<i>dr 1</i>	Return delay time (1)	dR1	<i>codE</i>	Access protection	Code
<i>dr 2</i>	Return delay time (2)	dR2	<i>d iA</i>	Diagnostic function	DIA
<i>oU 1</i>	Output (1)	Ou1	<i>Err</i>	Error indicator	ERR
<i>oU 2</i>	Output (2)	Ou2	<i>d iS</i>	Display	DIS
<i>Hno</i>	NO with hysteresis function	HNO	<i>YES</i>	Yes	Yes
<i>Fno</i>	NO with window function	FNO	<i>no</i>	No	No

IO-Link

IO-Link is a worldwide standardized IO technology in accordance with IEC 61131-9 for communicating from the controller to the lowest level of the automation system. The interface can be used universally and is a fieldbus-independent point-to-point connection that operates using an unshielded industrial cable.



Benefits of the digital communications standard

- Easy to install
- Need-based maintenance
- Efficient operation
- Highest machine availability

SIO mode

Balluff pressure sensors with IO-Link support both SIO mode and IO-Link mode.

SIO mode (Standard IO mode):

In SIO mode, the sensor operates with the standard output signals. This way one digital output and one more digital output or an analog output are always available.

IO-Link mode (communication mode):


If the sensor operates subordinate to an IO-Link master, then the pressure sensor switches to IO-Link communication mode. The process data length of the pressure sensor is 16 bits. The switching statuses of the two switching outputs (BCD1 and BCD2) are transmitted in the process data, as well as the current measured value.



15 Bit	14...2	1	0
Signed bit	Measured value	BCD2/ Output 2	BCD1/ Output 1

Basic Information and Definitions

Configuring and adjusting sensors

Configuring and adjusting sensors

Balluff pressure sensors BSP are easy to configure in line with VDMA standards: **Change menus** – Press the  button to switch to programming mode and modify the pressure sensor settings.

Display parameter – Press the  button to show the relevant parameter on the display. **Set parameter** – Press the  button in any menu to select the relevant value.

Display mode

The current process pressure is displayed here. You can check this parameter directly on location at any time.



Switching point 1

Here you can select the switching point (pressure value) of output 1, which determines when the output status of the sensor changes. The switching point can be set to any value within the measuring range.



Return point 1

Return point 1 is used to select the pressure value that defines when output 1 switches back. The difference between SP 1 (9.05 bar) and rP 1 (7.05 bar) produces the hysteresis (2 bar) of switching output 1.



Switching point 2

For setting output 2. Proceed as described for switching point 1.



Return point 2

For setting output 2. Proceed as described for return point 1.

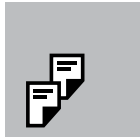


Extended functions

Additional settings such as switching functions for outputs 1 and 2 can be configured in the "Extended functions" menu.



- Switch-on delay for SP 1 and SP 2
- Return point delay for rP 1 and rP 2
- Switching function for Out 1 and Out 2
- NO
- NC
- Window function
- Hysteresis function
- Unit selection
- Min./max. value
- Access protection
- Turn display
- Zero point adjustment
- Measured value damping



Basic Information and Definitions
 Quality and environmental management
 Specific basic information for pressure sensors
 Electrical properties
 Mechanical properties
Configuring and adjusting sensors

Alphanumeric Directory

Sorted by part number



Sorted by part number

Part number	Ordering code	Page
BAM		
BAM AD-SP-008-1G4/1G2-4	BAM01UJ	32
BAM AD-SP-008-1G4/1G4-4	BAM01KP	32
BAM AD-SP-008-1G4/1G4-4-EN837	BAM01KR	32
BAM AD-SP-008-1G4/1N4-4	BAM01KT	33
BAM AD-SP-008-1G4/1R4-4	BAM01RP	33
BAM AD-SP-008-1G4/M20X1.5-4	BAM0209	33
BAM AD-SP-011-1G4/1N4-4	BAM01TR	33
BAM MC-XA-017-D30.0-1	BAM01U0	33

Part number	Ordering code	Page
BCC		
BCC M415-0000-1A-003-PX0434-020	BCC032F	31
BCC M415-0000-1A-003-PX0434-050	BCC032H	31
BCC M415-0000-1A-003-PX0434-100	BCC032J	31
BCC M415-0000-1A-014-PS0434-020	BCC032K	31
BCC M415-0000-1A-014-PS0434-050	BCC032L	31
BCC M415-0000-1A-014-PS0434-100	BCC032M	31
BCC M425-0000-1A-003-PX0434-020	BCC032Y	31
BCC M425-0000-1A-003-PX0434-050	BCC032Z	31
BCC M425-0000-1A-003-PX0434-100	BCC0330	31
BCC M425-0000-1A-014-PS0434-020	BCC0331	31
BCC M425-0000-1A-014-PS0434-050	BCC0332	31
BCC M425-0000-1A-014-PS0434-100	BCC0333	31

Part number	Ordering code	Page
BSP		
BSP B002-DV004-A04A1A-S4	BSP00JH	23
BSP B002-DV004-A06A1A-S4	BSP00FZ	25
BSP B002-EV002-A00A0B-S4	BSP000T	13
BSP B002-EV002-A00S1B-S4	BSP008N	15
BSP B002-EV002-A01A0B-S4	BSP003P	13
BSP B002-EV002-A01S1B-S4	BSP00C4	15
BSP B002-EV002-A02S1B-S4	BSP0093	15
BSP B002-EV002-A03A0B-S4	BSP003W	13
BSP B002-EV002-A03S1B-S4	BSP009H	15
BSP B002-EV002-D00A0B-S4	BSP000F	13
BSP B002-EV002-D00A0B-S4	BSP0014	13
BSP B002-EV002-D00S1B-S4	BSP0088	15
BSP B002-EV002-D01A0B-S4	BSP003K	13
BSP B002-EV002-D01S1B-S4	BSP009Y	15
BSP B002-EV003-A00A0B-S4	BSP002A	17
BSP B002-EV003-A00S1B-S4	BSP00AP	19
BSP B002-EV003-A01A0B-S4	BSP0045	17
BSP B002-EV003-A01S1B-S4	BSP00EA	19
BSP B002-EV003-A02A0B-S4	BSP002N	17
BSP B002-EV003-A02S1B-S4	BSP00A9	19
BSP B002-EV003-A03A0B-S4	BSP0049	17
BSP B002-EV003-A03S1B-S4	BSP00ER	19
BSP B002-EV003-D00A0B-S4	BSP0021	17
BSP B002-EV003-D00S1B-S4	BSP00CJ	19
BSP B002-EV003-D01A0B-S4	BSP0041	17
BSP B002-EV003-D01S1B-S4	BSP00CZ	19
BSP B002-FV004-A04A1A-S4	BSP00JY	23
BSP B002-FV004-A06A1A-S4	BSP00H9	25
BSP B002-HV004-A04A1A-S4	BSP00KP	23
BSP B002-HV004-A06A1A-S4	BSP00J4	25
BSP B002-IV003-A00A0B-S4	BSP006J	21
BSP B002-IV003-A01A0B-S4	BSP007R	21
BSP B002-IV003-A02A0B-S4	BSP0064	21
BSP B002-IV003-A03A0B-S4	BSP007A	21
BSP B002-IV003-D00A0B-S4	BSP005P	21
BSP B002-IV003-D01A0B-S4	BSP006Z	21
BSP B002-IV003-A04A1A-S4	BSP00K9	23
BSP B002-KV004-A06A1A-S4	BSP00HP	25
BSP B005-DV004-A04A1A-S4	BSP00JJ	23
BSP B005-DV004-A06A1A-S4	BSP00HO	25
BSP B005-EV002-A00S1B-S4	BSP008P	15
BSP B005-EV002-A01A0B-S4	BSP003R	13

Part number	Ordering code	Page
BSP B005-EV002-A01S1B-S4	BSP00C5	15
BSP B005-EV002-A02S1B-S4	BSP0015	13
BSP B005-EV002-A03A0B-S4	BSP0094	15
BSP B005-EV002-A03S1B-S4	BSP003Y	13
BSP B005-EV002-D00A0B-S4	BSP009J	15
BSP B005-EV002-D00A0B-S4	BSP000H	13
BSP B005-EV002-D00A0B-S4	BSP000U	13
BSP B005-EV002-D00S1B-S4	BSP0089	15
BSP B005-EV002-D01A0B-S4	BSP003L	13
BSP B005-EV002-D01S1B-S4	BSP009Z	15
BSP B005-EV003-A00A0B-S4	BSP002C	17
BSP B005-EV003-A00S1B-S4	BSP00AR	19
BSP B005-EV003-A01A0B-S4	BSP0046	17
BSP B005-EV003-A01S1B-S4	BSP00EC	19
BSP B005-EV003-A02A0B-S4	BSP002P	17
BSP B005-EV003-A02S1B-S4	BSP00AA	19
BSP B005-EV003-A03A0B-S4	BSP004A	17
BSP B005-EV003-A03S1B-S4	BSP00ET	19
BSP B005-EV003-D00A0B-S4	BSP0022	17
BSP B005-EV003-D00S1B-S4	BSP00CK	19
BSP B005-EV003-D01A0B-S4	BSP0042	17
BSP B005-EV003-D01S1B-S4	BSP00E0	19
BSP B005-FV004-A04A1A-S4	BSP00JZ	23
BSP B005-FV004-A06A1A-S4	BSP00HA	25
BSP B005-HV004-A04A1A-S4	BSP00KR	23
BSP B005-HV004-A06A1A-S4	BSP00J5	25
BSP B005-IV003-A00A0B-S4	BSP006K	21
BSP B005-IV003-A01A0B-S4	BSP007T	21
BSP B005-IV003-A02A0B-S4	BSP0065	21
BSP B005-IV003-A03A0B-S4	BSP007C	21
BSP B005-IV003-D00A0B-S4	BSP005R	21
BSP B005-IV003-D01A0B-S4	BSP0070	21
BSP B005-KV004-A04A1A-S4	BSP00KA	23
BSP B005-KV004-A06A1A-S4	BSP00HR	25
BSP B010-DV004-A04A1A-S4	BSP00JK	23
BSP B010-DV004-A06A1A-S4	BSP00H1	25
BSP B010-EV002-A00A0B-S4	BSP000W	13
BSP B010-EV002-A00S1B-S4	BSP008R	15
BSP B010-EV002-A01A0B-S4	BSP001M	13
BSP B010-EV002-A01S1B-S4	BSP00C6	15
BSP B010-EV002-A02A0B-S4	BSP0016	13
BSP B010-EV002-A02S1B-S4	BSP0095	15
BSP B010-EV002-A03A0B-S4	BSP001U	13
BSP B010-EV002-A03S1B-S4	BSP009K	15
BSP B010-EV002-D00A0B-S4	BSP000J	13
BSP B010-EV002-D00S1B-S4	BSP008A	15
BSP B010-EV002-D01A0B-S4	BSP001F	13
BSP B010-EV002-D01S1B-S4	BSP00A0	15
BSP B010-EV003-A00A0B-S4	BSP002E	17
BSP B010-EV003-A00S1B-S4	BSP00AT	19
BSP B010-EV003-A01A0B-S4	BSP0036	17
BSP B010-EV003-A01S1B-S4	BSP00EE	19
BSP B010-EV003-A02A0B-S4	BSP002R	17
BSP B010-EV003-A02S1B-S4	BSP00AC	19
BSP B010-EV003-A03A0B-S4	BSP003C	17
BSP B010-EV003-A03S1B-S4	BSP00EU	19
BSP B010-EV003-D00A0B-S4	BSP0023	17
BSP B010-EV003-D00S1B-S4	BSP00CL	19
BSP B010-EV003-D01A0B-S4	BSP0031	17
BSP B010-EV003-D01S1B-S4	BSP00E1	19
BSP B010-FV004-A04A1A-S4	BSP00K0	23
BSP B010-FV004-A06A1A-S4	BSP00HC	25
BSP B010-HV004-A04A1A-S4	BSP00KT	23
BSP B010-HV004-A06A1A-S4	BSP00J6	25
BSP B010-IV003-A00A0B-S4	BSP006L	21
BSP B010-IV003-A01A0B-S4	BSP007U	21
BSP B010-IV003-A02A0B-S4	BSP0066	21
BSP B010-IV003-A03A0B-S4	BSP007E	21

Alphanumeric Directory

Sorted by part number

Part number	Ordering code	Page
BSP B010-IV003-D00A0B-S4	BSP005T	21
BSP B010-IV003-D01A0B-S4	BSP0071	21
BSP B010-KV004-A04A1A-S4	BSP00KC	23
BSP B010-KV004-A06A1A-S4	BSP00HT	25
BSP B020-DV004-A04A1A-S4	BSP00JL	23
BSP B020-DV004-A06A1A-S4	BSP00H2	25
BSP B020-EV002-A00A0B-S4	BSP000Y	13
BSP B020-EV002-A00S1B-S4	BSP008T	15
BSP B020-EV002-A01A0B-S4	BSP001N	13
BSP B020-EV002-A01S1B-S4	BSP00C7	15
BSP B020-EV002-A02S1B-S4	BSP0096	15
BSP B020-EV002-A03A0B-S4	BSP001W	13
BSP B020-EV002-A03S1B-S4	BSP009L	15
BSP B020-EV002-D00A0B-S4	BSP000K	13
BSP B020-EV002-D00A0B-S4	BSP0017	13
BSP B020-EV002-D00S1B-S4	BSP008C	15
BSP B020-EV002-D01A0B-S4	BSP001H	13
BSP B020-EV002-D01S1B-S4	BSP00A1	15
BSP B020-EV003-A00A0B-S4	BSP002F	17
BSP B020-EV003-A00S1B-S4	BSP00AU	19
BSP B020-EV003-A01A0B-S4	BSP0037	17
BSP B020-EV003-A01S1B-S4	BSP00EF	19
BSP B020-EV003-A02A0B-S4	BSP002T	17
BSP B020-EV003-A02S1B-S4	BSP00AE	19
BSP B020-EV003-A03A0B-S4	BSP003E	17
BSP B020-EV003-A03S1B-S4	BSP00EW	19
BSP B020-EV003-D00A0B-S4	BSP0024	17
BSP B020-EV003-D00S1B-S4	BSP00CM	19
BSP B020-EV003-D01A0B-S4	BSP0032	17
BSP B020-EV003-D01S1B-S4	BSP00E2	19
BSP B020-FV004-A04A1A-S4	BSP00K1	23
BSP B020-FV004-A06A1A-S4	BSP00HE	25
BSP B020-HV004-A04A1A-S4	BSP00KU	23
BSP B020-HV004-A06A1A-S4	BSP00J7	25
BSP B020-IV003-A00A0B-S4	BSP006M	21
BSP B020-IV003-A01A0B-S4	BSP007W	21
BSP B020-IV003-A02A0B-S4	BSP0067	21
BSP B020-IV003-A03A0B-S4	BSP007F	21
BSP B020-IV003-D00A0B-S4	BSP005U	21
BSP B020-IV003-D01A0B-S4	BSP0072	21
BSP B020-KV004-A04A1A-S4	BSP00KE	23
BSP B020-KV004-A06A1A-S4	BSP00HU	25
BSP B050-DV004-A04A1A-S4	BSP00JM	23
BSP B050-DV004-A06A1A-S4	BSP00H3	25
BSP B050-EV002-A00A0B-S4	BSP000Z	13
BSP B050-EV002-A00S1B-S4	BSP008U	15
BSP B050-EV002-A01A0B-S4	BSP001P	13
BSP B050-EV002-A01S1B-S4	BSP00C8	15
BSP B050-EV002-A02A0B-S4	BSP0018	13
BSP B050-EV002-A02S1B-S4	BSP0097	15
BSP B050-EV002-A03A0B-S4	BSP001Y	13
BSP B050-EV002-A03S1B-S4	BSP009M	15
BSP B050-EV002-D00A0B-S4	BSP000L	13
BSP B050-EV002-D00S1B-S4	BSP008E	15
BSP B050-EV002-D01A0B-S4	BSP001J	13
BSP B050-EV002-D01S1B-S4	BSP00A2	15
BSP B050-EV003-A00A0B-S4	BSP002H	17
BSP B050-EV003-A00S1B-S4	BSP00AW	19
BSP B050-EV003-A01A0B-S4	BSP0038	17
BSP B050-EV003-A01S1B-S4	BSP00EH	19
BSP B050-EV003-A02A0B-S4	BSP002U	17
BSP B050-EV003-A02S1B-S4	BSP00AF	19
BSP B050-EV003-A03A0B-S4	BSP003F	17
BSP B050-EV003-A03S1B-S4	BSP00EY	19
BSP B050-EV003-D00A0B-S4	BSP0025	17
BSP B050-EV003-D00S1B-S4	BSP00CN	19
BSP B050-EV003-D01A0B-S4	BSP0033	17
BSP B050-EV003-D01S1B-S4	BSP00E3	19

Part number	Ordering code	Page
BSP B050-FV004-A04A1A-S4	BSP00K2	23
BSP B050-FV004-A06A1A-S4	BSP00HF	25
BSP B050-HV004-A04A1A-S4	BSP00KW	23
BSP B050-HV004-A06A1A-S4	BSP00J8	25
BSP B050-IV003-A00A0B-S4	BSP006N	21
BSP B050-IV003-A01A0B-S4	BSP007Y	21
BSP B050-IV003-A02A0B-S4	BSP0068	21
BSP B050-IV003-A03A0B-S4	BSP007H	21
BSP B050-IV003-D00A0B-S4	BSP005W	21
BSP B050-IV003-D01A0B-S4	BSP0073	21
BSP B050-KV004-A04A1A-S4	BSP00KF	23
BSP B050-KV004-A06A1A-S4	BSP00HW	25
BSP B100-DV004-A04A1A-S4	BSP00JN	23
BSP B100-DV004-A06A1A-S4	BSP00H4	25
BSP B100-EV002-A00A0B-S4	BSP0010	13
BSP B100-EV002-A00S1B-S4	BSP008W	15
BSP B100-EV002-A01A0B-S4	BSP001R	13
BSP B100-EV002-A01S1B-S4	BSP00C9	15
BSP B100-EV002-A02S1B-S4	BSP0098	15
BSP B100-EV002-A03A0B-S4	BSP001Z	13
BSP B100-EV002-A03S1B-S4	BSP009N	15
BSP B100-EV002-D00A0B-S4	BSP000M	13
BSP B100-EV002-D00A0B-S4	BSP0019	13
BSP B100-EV002-D00S1B-S4	BSP008F	15
BSP B100-EV002-D01A0B-S4	BSP001K	13
BSP B100-EV002-D01S1B-S4	BSP00A3	15
BSP B100-EV003-A00A0B-S4	BSP002J	17
BSP B100-EV003-A00S1B-S4	BSP00AY	19
BSP B100-EV003-A01A0B-S4	BSP0039	17
BSP B100-EV003-A01S1B-S4	BSP00EJ	19
BSP B100-EV003-A02A0B-S4	BSP002W	17
BSP B100-EV003-A02S1B-S4	BSP00AH	19
BSP B100-EV003-A03A0B-S4	BSP003H	17
BSP B100-EV003-A03S1B-S4	BSP00EZ	19
BSP B100-EV003-D00A0B-S4	BSP0026	17
BSP B100-EV003-D00S1B-S4	BSP00CP	19
BSP B100-EV003-D01A0B-S4	BSP0034	17
BSP B100-EV003-D01S1B-S4	BSP00E4	19
BSP B100-FV004-A04A1A-S4	BSP00K3	23
BSP B100-FV004-A06A1A-S4	BSP00HH	25
BSP B100-GV002-D00A0B-S4	BSP005E	13
BSP B100-HV004-A04A1A-S4	BSP00KY	23
BSP B100-HV004-A06A1A-S4	BSP00FT	25
BSP B100-IV003-A00A0B-S4	BSP006P	21
BSP B100-IV003-A01A0B-S4	BSP007Z	21
BSP B100-IV003-A02A0B-S4	BSP0069	21
BSP B100-IV003-A03A0B-S4	BSP007J	21
BSP B100-IV003-D00A0B-S4	BSP005Y	21
BSP B100-IV003-D01A0B-S4	BSP0074	21
BSP B100-KV004-A04A1A-S4	BSP00KH	23
BSP B100-KV004-A06A1A-S4	BSP00HY	25
BSP B250-DV004-A04A1A-S4	BSP00JP	23
BSP B250-DV004-A06A1A-S4	BSP00H5	25
BSP B250-EV002-A00A0B-S4	BSP0011	13
BSP B250-EV002-A00S1B-S4	BSP008Y	15
BSP B250-EV002-A01A0B-S4	BSP001T	13
BSP B250-EV002-A01S1B-S4	BSP00CA	15
BSP B250-EV002-A02A0B-S4	BSP001A	13
BSP B250-EV002-A02S1B-S4	BSP0099	15
BSP B250-EV002-A03A0B-S4	BSP0020	13
BSP B250-EV002-A03S1B-S4	BSP009P	15
BSP B250-EV002-D00A0B-S4	BSP000N	13
BSP B250-EV002-D00S1B-S4	BSP008H	15
BSP B250-EV002-D01A0B-S4	BSP001L	13
BSP B250-EV002-D01S1B-S4	BSP00A4	15
BSP B250-EV003-A00A0B-S4	BSP002K	17
BSP B250-EV003-A00S1B-S4	BSP00AZ	19
BSP B250-EV003-A01A0B-S4	BSP003A	17

Alphanumeric Directory

Sorted by part number

Part number	Ordering code	Page
BSP B250-EV003-A01S1B-S4	BSP00EK	19
BSP B250-EV003-A02A0B-S4	BSP002Y	17
BSP B250-EV003-A02S1B-S4	BSP00AJ	19
BSP B250-EV003-A03A0B-S4	BSP003J	17
BSP B250-EV003-A03S1B-S4	BSP00FO	19
BSP B250-EV003-D00A0B-S4	BSP0027	17
BSP B250-EV003-D00S1B-S4	BSP00CR	19
BSP B250-EV003-D01A0B-S4	BSP0035	17
BSP B250-EV003-D01S1B-S4	BSP00E5	19
BSP B250-FV004-A04A1A-S4	BSP00K4	23
BSP B250-FV004-A06A1A-S4	BSP00HJ	25
BSP B250-GV002-D00A0B-S4	BSP005F	13
BSP B250-HV004-A04A1A-S4	BSP00KZ	23
BSP B250-HV004-A06A1A-S4	BSP00J9	25
BSP B250-IV003-A00A0B-S4	BSP006R	21
BSP B250-IV003-A01A0B-S4	BSP0080	21
BSP B250-IV003-A02A0B-S4	BSP006A	21
BSP B250-IV003-A03A0B-S4	BSP007K	21
BSP B250-IV003-D00A0B-S4	BSP005Z	21
BSP B250-IV003-D01A0B-S4	BSP0075	21
BSP B250-KV004-A04A1A-S4	BSP00KJ	23
BSP B250-KV004-A06A1A-S4	BSP00HZ	25
BSP B400-DV004-A04A1A-S4	BSP00JR	23
BSP B400-DV004-A06A1A-S4	BSP00F3	25
BSP B400-EV002-A00A0B-S4	BSP0012	13
BSP B400-EV002-A00S1B-S4	BSP008Z	15
BSP B400-EV002-A01A0B-S4	BSP003T	13
BSP B400-EV002-A01S1B-S4	BSP00CC	15
BSP B400-EV002-A02A0B-S4	BSP001C	13
BSP B400-EV002-A02S1B-S4	BSP009A	15
BSP B400-EV002-A03A0B-S4	BSP003Z	13
BSP B400-EV002-A03S1B-S4	BSP009R	15
BSP B400-EV002-D00A0B-S4	BSP000P	13
BSP B400-EV002-D00S1B-S4	BSP008J	15
BSP B400-EV002-D01A0B-S4	BSP003M	13
BSP B400-EV002-D01S1B-S4	BSP00A5	15
BSP B400-EV003-A00A0B-S4	BSP002L	17
BSP B400-EV003-A00S1B-S4	BSP00C0	19
BSP B400-EV003-A01A0B-S4	BSP0047	17
BSP B400-EV003-A01S1B-S4	BSP00EL	19
BSP B400-EV003-A02A0B-S4	BSP002Z	17
BSP B400-EV003-A02S1B-S4	BSP00AK	19
BSP B400-EV003-A03A0B-S4	BSP004C	17
BSP B400-EV003-A03S1B-S4	BSP00F1	19
BSP B400-EV003-D00A0B-S4	BSP0028	17
BSP B400-EV003-D00S1B-S4	BSP00CT	19
BSP B400-EV003-D01A0B-S4	BSP0043	17
BSP B400-EV003-D01S1B-S4	BSP00E6	19
BSP B400-FV004-A04A1A-S4	BSP00K5	23
BSP B400-FV004-A06A1A-S4	BSP00HK	25
BSP B400-HV004-A04A1A-S4	BSP00L0	23
BSP B400-HV004-A06A1A-S4	BSP00JA	25
BSP B400-IV003-A00A0B-S4	BSP006T	21
BSP B400-IV003-A01A0B-S4	BSP0081	21
BSP B400-IV003-A02A0B-S4	BSP006C	21
BSP B400-IV003-A03A0B-S4	BSP007L	21
BSP B400-IV003-D00A0B-S4	BSP0060	21
BSP B400-IV003-D01A0B-S4	BSP0076	21
BSP B400-KV004-A04A1A-S4	BSP00KK	23
BSP B400-KV004-A06A1A-S4	BSP00J0	25
BSP B600-DV004-A04A1A-S4	BSP00JT	23
BSP B600-DV004-A06A1A-S4	BSP00H6	25
BSP B600-EV002-A00S1B-S4	BSP0090	15
BSP B600-EV002-A01A0B-S4	BSP003U	13
BSP B600-EV002-A01S1B-S4	BSP00CE	15
BSP B600-EV002-A02A0B-S4	BSP001E	13
BSP B600-EV002-A02S1B-S4	BSP009C	15
BSP B600-EV002-A03A0B-S4	BSP0040	13

Part number	Ordering code	Page
BSP B600-EV002-A03S1B-S4	BSP009T	15
BSP B600-EV002-D00A0B-S4	BSP000R	13
BSP B600-EV002-D00A0B-S4	BSP0013	13
BSP B600-EV002-D00S1B-S4	BSP008K	15
BSP B600-EV002-D01A0B-S4	BSP003N	13
BSP B600-EV002-D01S1B-S4	BSP00A6	15
BSP B600-EV003-A00A0B-S4	BSP002M	17
BSP B600-EV003-A00S1B-S4	BSP00C1	19
BSP B600-EV003-A01A0B-S4	BSP0048	17
BSP B600-EV003-A01S1B-S4	BSP00EM	19
BSP B600-EV003-A02A0B-S4	BSP0030	17
BSP B600-EV003-A02S1B-S4	BSP00AL	19
BSP B600-EV003-A03A0B-S4	BSP004E	17
BSP B600-EV003-A03S1B-S4	BSP00F2	19
BSP B600-EV003-D00A0B-S4	BSP0029	17
BSP B600-EV003-D00S1B-S4	BSP00CU	19
BSP B600-EV003-D01A0B-S4	BSP0044	17
BSP B600-EV003-D01S1B-S4	BSP00E7	19
BSP B600-FV004-A04A1A-S4	BSP00K6	23
BSP B600-FV004-A06A1A-S4	BSP00HL	25
BSP B600-HV004-A04A1A-S4	BSP00L1	23
BSP B600-HV004-A06A1A-S4	BSP00JC	25
BSP B600-KV004-A04A1A-S4	BSP00KL	23
BSP B600-KV004-A06A1A-S4	BSP00J1	25
BSP V002-DV004-A04A1A-S4	BSP00JE	23
BSP V002-DV004-A06A1A-S4	BSP00FW	25
BSP V002-EV002-A00S1B-S4	BSP008L	15
BSP V002-EV002-A01A0B-S4	BSP004R	13
BSP V002-EV002-A01S1B-S4	BSP00C2	15
BSP V002-EV002-A02S1B-S4	BSP0091	15
BSP V002-EV002-A03A0B-S4	BSP004U	13
BSP V002-EV002-A03S1B-S4	BSP009E	15
BSP V002-EV002-D00A0B-S4	BSP004F	13
BSP V002-EV002-D00A0B-S4	BSP004J	13
BSP V002-EV002-D00A0B-S4	BSP004L	13
BSP V002-EV002-D00S1B-S4	BSP0086	15
BSP V002-EV002-D01A0B-S4	BSP004N	13
BSP V002-EV002-D01S1B-S4	BSP009U	15
BSP V002-EV003-A00A0B-S4	BSP0050	17
BSP V002-EV003-A00S1B-S4	BSP00AM	19
BSP V002-EV003-A01A0B-S4	BSP0056	17
BSP V002-EV003-A01S1B-S4	BSP00E8	19
BSP V002-EV003-A02A0B-S4	BSP0052	17
BSP V002-EV003-A02S1B-S4	BSP00A7	19
BSP V002-EV003-A03A0B-S4	BSP0058	17
BSP V002-EV003-A03S1B-S4	BSP00EN	19
BSP V002-EV003-D00A0B-S4	BSP004Y	17
BSP V002-EV003-D00S1B-S4	BSP00CF	19
BSP V002-EV003-D01A0B-S4	BSP0054	17
BSP V002-EV003-D01S1B-S4	BSP00CW	19
BSP V002-FV004-A04A1A-S4	BSP00JU	23
BSP V002-FV004-A06A1A-S4	BSP00H7	25
BSP V002-HV004-A04A1A-S4	BSP00KM	23
BSP V002-HV004-A06A1A-S4	BSP00J2	25
BSP V002-IV003-A00A0B-S4	BSP006F	21
BSP V002-IV003-A01A0B-S4	BSP007N	21
BSP V002-IV003-A02A0B-S4	BSP0062	21
BSP V002-IV003-A03A0B-S4	BSP0078	21
BSP V002-IV003-D00A0B-S4	BSP005M	21
BSP V002-IV003-D01A0B-S4	BSP006W	21
BSP V002-KV004-A04A1A-S4	BSP00K7	23
BSP V002-KV004-A06A1A-S4	BSP00HM	25
BSP V010-DV004-A04A1A-S4	BSP00JF	23
BSP V010-DV004-A06A1A-S4	BSP00FY	25
BSP V010-EV002-A00A0B-S4	BSP004K	13
BSP V010-EV002-A00S1B-S4	BSP008M	15
BSP V010-EV002-A01A0B-S4	BSP004T	13
BSP V010-EV002-A01S1B-S4	BSP00C3	15

Alphanumeric Directory

Sorted by ordering code



Sorted by ordering code

Part number	Ordering code	Page
BSP V010-EV002-A02A0B-S4	BSP004M	13
BSP V010-EV002-A02S1B-S4	BSP0092	15
BSP V010-EV002-A03A0B-S4	BSP004W	13
BSP V010-EV002-A03S1B-S4	BSP009F	15
BSP V010-EV002-D00A0B-S4	BSP004H	13
BSP V010-EV002-D00S1B-S4	BSP0087	15
BSP V010-EV002-D01A0B-S4	BSP004P	13
BSP V010-EV002-D01S1B-S4	BSP009W	15
BSP V010-EV003-A00A0B-S4	BSP0051	17
BSP V010-EV003-A00S1B-S4	BSP00AN	19
BSP V010-EV003-A01A0B-S4	BSP0057	17
BSP V010-EV003-A01S1B-S4	BSP00E9	19
BSP V010-EV003-A02A0B-S4	BSP0053	17
BSP V010-EV003-A02S1B-S4	BSP00A8	19
BSP V010-EV003-A03A0B-S4	BSP0059	17
BSP V010-EV003-A03S1B-S4	BSP00EP	19
BSP V010-EV003-D00A0B-S4	BSP004Z	17
BSP V010-EV003-D00S1B-S4	BSP00CH	19
BSP V010-EV003-D01A0B-S4	BSP0055	17
BSP V010-EV003-D01S1B-S4	BSP00CY	19
BSP V010-FV004-A04A1A-S4	BSP00JW	23
BSP V010-FV004-A06A1A-S4	BSP00H8	25
BSP V010-GV002-A00A0B-S4	BSP005H	13
BSP V010-GV002-A02A0B-S4	BSP005J	13
BSP V010-GV002-D00A0B-S4	BSP005C	13
BSP V010-HV004-A04A1A-S4	BSP00KN	23
BSP V010-HV004-A06A1A-S4	BSP00J3	25
BSP V010-IV003-A00A0B-S4	BSP006H	21
BSP V010-IV003-A01A0B-S4	BSP007P	21
BSP V010-IV003-A02A0B-S4	BSP0063	21
BSP V010-IV003-A03A0B-S4	BSP0079	21
BSP V010-IV003-D00A0B-S4	BSP005N	21
BSP V010-IV003-D01A0B-S4	BSP006Y	21
BSP V010-KV004-A04A1A-S4	BSP00K8	23
BSP V010-KV004-A06A1A-S4	BSP00HN	25

BTL

BTL6-A-MF03-K-50	BAM0110	33
------------------	----------------	----

Ordering code	Part number	Page
BAM		
BAM0110	BTL6-A-MF03-K-50	33
BAM01KP	BAM AD-SP-008-1G4/1G4-4	32
BAM01KR	BAM AD-SP-008-1G4/1G4-4-EN837	32
BAM01KT	BAM AD-SP-008-1G4/1N4-4	33
BAM01RP	BAM AD-SP-008-1G4/1R4-4	33
BAM01TR	BAM AD-SP-011-1G4/1N4-4	33
BAM01UO	BAM MC-XA-017-D30.0-1	33
BAM01UJ	BAM AD-SP-008-1G4/1G2-4	32
BAM0209	BAM AD-SP-008-1G4/M20X1.5-4	33

BCC

BCC032F	BCC M415-0000-1A-003-PX0434-020	31
BCC032H	BCC M415-0000-1A-003-PX0434-050	31
BCC032J	BCC M415-0000-1A-003-PX0434-100	31
BCC032K	BCC M415-0000-1A-014-PS0434-020	31
BCC032L	BCC M415-0000-1A-014-PS0434-050	31
BCC032M	BCC M415-0000-1A-014-PS0434-100	31
BCC032Y	BCC M425-0000-1A-003-PX0434-020	31
BCC032Z	BCC M425-0000-1A-003-PX0434-050	31
BCC0330	BCC M425-0000-1A-003-PX0434-100	31
BCC0331	BCC M425-0000-1A-014-PS0434-020	31
BCC0332	BCC M425-0000-1A-014-PS0434-050	31
BCC0333	BCC M425-0000-1A-014-PS0434-100	31

BSP

BSP000F	BSP B002-EV002-D00A0B-S4	13
BSP000H	BSP B005-EV002-D00A0B-S4	13
BSP000J	BSP B010-EV002-D00A0B-S4	13
BSP000K	BSP B020-EV002-D00A0B-S4	13
BSP000L	BSP B050-EV002-D00A0B-S4	13
BSP000M	BSP B100-EV002-D00A0B-S4	13
BSP000N	BSP B250-EV002-D00A0B-S4	13
BSP000P	BSP B400-EV002-D00A0B-S4	13
BSP000R	BSP B600-EV002-D00A0B-S4	13
BSP000T	BSP B002-EV002-A00A0B-S4	13
BSP000U	BSP B005-EV002-D00A0B-S4	13
BSP000W	BSP B010-EV002-A00A0B-S4	13
BSP000Y	BSP B020-EV002-A00A0B-S4	13
BSP000Z	BSP B050-EV002-A00A0B-S4	13
BSP0010	BSP B100-EV002-A00A0B-S4	13
BSP0011	BSP B250-EV002-A00A0B-S4	13
BSP0012	BSP B400-EV002-A00A0B-S4	13
BSP0013	BSP B600-EV002-D00A0B-S4	13
BSP0014	BSP B002-EV002-D00A0B-S4	13
BSP0015	BSP B005-EV002-A02A0B-S4	13
BSP0016	BSP B010-EV002-A02A0B-S4	13
BSP0017	BSP B020-EV002-D00A0B-S4	13
BSP0018	BSP B050-EV002-A02A0B-S4	13
BSP0019	BSP B100-EV002-D00A0B-S4	13
BSP001A	BSP B250-EV002-A02A0B-S4	13
BSP001C	BSP B400-EV002-A02A0B-S4	13
BSP001E	BSP B600-EV002-A02A0B-S4	13
BSP001F	BSP B010-EV002-D01A0B-S4	13
BSP001H	BSP B020-EV002-D01A0B-S4	13
BSP001J	BSP B050-EV002-D01A0B-S4	13
BSP001K	BSP B100-EV002-D01A0B-S4	13
BSP001L	BSP B250-EV002-D01A0B-S4	13
BSP001M	BSP B010-EV002-A01A0B-S4	13
BSP001N	BSP B020-EV002-A01A0B-S4	13
BSP001P	BSP B050-EV002-A01A0B-S4	13
BSP001R	BSP B100-EV002-A01A0B-S4	13
BSP001T	BSP B250-EV002-A01A0B-S4	13
BSP001U	BSP B010-EV002-A03A0B-S4	13
BSP001W	BSP B020-EV002-A03A0B-S4	13
BSP001Y	BSP B050-EV002-A03A0B-S4	13
BSP001Z	BSP B100-EV002-A03A0B-S4	13

Alphanumeric Directory

Sorted by ordering code

Ordering code	Part number	Page
BSP0020	BSP B250-EV002-A03A0B-S4	13
BSP0021	BSP B002-EV003-D00A0B-S4	17
BSP0022	BSP B005-EV003-D00A0B-S4	17
BSP0023	BSP B010-EV003-D00A0B-S4	17
BSP0024	BSP B020-EV003-D00A0B-S4	17
BSP0025	BSP B050-EV003-D00A0B-S4	17
BSP0026	BSP B100-EV003-D00A0B-S4	17
BSP0027	BSP B250-EV003-D00A0B-S4	17
BSP0028	BSP B400-EV003-D00A0B-S4	17
BSP0029	BSP B600-EV003-A00A0B-S4	17
BSP002A	BSP B002-EV003-A00A0B-S4	17
BSP002C	BSP B005-EV003-A00A0B-S4	17
BSP002E	BSP B010-EV003-A00A0B-S4	17
BSP002F	BSP B020-EV003-A00A0B-S4	17
BSP002H	BSP B050-EV003-A00A0B-S4	17
BSP002J	BSP B100-EV003-A00A0B-S4	17
BSP002K	BSP B250-EV003-A00A0B-S4	17
BSP002L	BSP B400-EV003-A00A0B-S4	17
BSP002M	BSP B600-EV003-A00A0B-S4	17
BSP002N	BSP B002-EV003-A02A0B-S4	17
BSP002P	BSP B005-EV003-A02A0B-S4	17
BSP002R	BSP B010-EV003-A02A0B-S4	17
BSP002T	BSP B020-EV003-A02A0B-S4	17
BSP002U	BSP B050-EV003-A02A0B-S4	17
BSP002W	BSP B100-EV003-A02A0B-S4	17
BSP002Y	BSP B250-EV003-A02A0B-S4	17
BSP002Z	BSP B400-EV003-A02A0B-S4	17
BSP0030	BSP B600-EV003-A02A0B-S4	17
BSP0031	BSP B010-EV003-D01A0B-S4	17
BSP0032	BSP B020-EV003-D01A0B-S4	17
BSP0033	BSP B050-EV003-D01A0B-S4	17
BSP0034	BSP B100-EV003-D01A0B-S4	17
BSP0035	BSP B250-EV003-D01A0B-S4	17
BSP0036	BSP B010-EV003-A01A0B-S4	17
BSP0037	BSP B020-EV003-A01A0B-S4	17
BSP0038	BSP B050-EV003-A01A0B-S4	17
BSP0039	BSP B100-EV003-A01A0B-S4	17
BSP003A	BSP B250-EV003-A01A0B-S4	17
BSP003C	BSP B010-EV003-A03A0B-S4	17
BSP003E	BSP B020-EV003-A03A0B-S4	17
BSP003F	BSP B050-EV003-A03A0B-S4	17
BSP003H	BSP B100-EV003-A03A0B-S4	17
BSP003J	BSP B250-EV003-A03A0B-S4	17
BSP003K	BSP B002-EV002-D01A0B-S4	13
BSP003L	BSP B005-EV002-D01A0B-S4	13
BSP003M	BSP B400-EV002-D01A0B-S4	13
BSP003N	BSP B600-EV002-D01A0B-S4	13
BSP003P	BSP B002-EV002-A01A0B-S4	13
BSP003R	BSP B005-EV002-A01A0B-S4	13
BSP003T	BSP B400-EV002-A01A0B-S4	13
BSP003U	BSP B600-EV002-A01A0B-S4	13
BSP003W	BSP B002-EV002-A03A0B-S4	13
BSP003Y	BSP B005-EV002-A03A0B-S4	13
BSP003Z	BSP B400-EV002-A03A0B-S4	13
BSP0040	BSP B600-EV002-A03A0B-S4	13
BSP0041	BSP B002-EV003-D01A0B-S4	17
BSP0042	BSP B005-EV003-D01A0B-S4	17
BSP0043	BSP B400-EV003-D01A0B-S4	17
BSP0044	BSP B600-EV003-D01A0B-S4	17
BSP0045	BSP B002-EV003-A01A0B-S4	17
BSP0046	BSP B005-EV003-A01A0B-S4	17
BSP0047	BSP B400-EV003-A01A0B-S4	17
BSP0048	BSP B600-EV003-A01A0B-S4	17
BSP0049	BSP B002-EV003-A03A0B-S4	17
BSP004A	BSP B005-EV003-A03A0B-S4	17
BSP004C	BSP B400-EV003-A03A0B-S4	17
BSP004E	BSP B600-EV003-A03A0B-S4	17
BSP004F	BSP V002-EV002-D00A0B-S4	13

Ordering code	Part number	Page
BSP004H	BSP V010-EV002-D00A0B-S4	13
BSP004J	BSP V002-EV002-D00A0B-S4	13
BSP004K	BSP V010-EV002-A00A0B-S4	13
BSP004L	BSP V002-EV002-D00A0B-S4	13
BSP004M	BSP V010-EV002-A02A0B-S4	13
BSP004N	BSP V002-EV002-D01A0B-S4	13
BSP004P	BSP V010-EV002-D01A0B-S4	13
BSP004R	BSP V002-EV002-A01A0B-S4	13
BSP004T	BSP V010-EV002-A01A0B-S4	13
BSP004U	BSP V002-EV002-A03A0B-S4	13
BSP004W	BSP V010-EV002-A03A0B-S4	13
BSP004Y	BSP V002-EV003-D00A0B-S4	17
BSP004Z	BSP V010-EV003-D00A0B-S4	17
BSP0050	BSP V002-EV003-A00A0B-S4	17
BSP0051	BSP V010-EV003-A00A0B-S4	17
BSP0052	BSP V002-EV003-A02A0B-S4	17
BSP0053	BSP V010-EV003-A02A0B-S4	17
BSP0054	BSP V002-EV003-D01A0B-S4	17
BSP0055	BSP V010-EV003-D01A0B-S4	17
BSP0056	BSP V002-EV003-A01A0B-S4	17
BSP0057	BSP V010-EV003-A01A0B-S4	17
BSP0058	BSP V002-EV003-A03A0B-S4	17
BSP0059	BSP V010-EV003-A03A0B-S4	17
BSP005C	BSP V010-GV002-D00A0B-S4	13
BSP005E	BSP B100-GV002-D00A0B-S4	13
BSP005F	BSP B250-GV002-D00A0B-S4	13
BSP005H	BSP V010-GV002-A00A0B-S4	13
BSP005J	BSP V010-GV002-A02A0B-S4	13
BSP005M	BSP V002-IV003-D00A0B-S4	21
BSP005N	BSP V010-IV003-D00A0B-S4	21
BSP005P	BSP B002-IV003-D00A0B-S4	21
BSP005R	BSP B005-IV003-D00A0B-S4	21
BSP005T	BSP B010-IV003-D00A0B-S4	21
BSP005U	BSP B020-IV003-D00A0B-S4	21
BSP005W	BSP B050-IV003-D00A0B-S4	21
BSP005Y	BSP B100-IV003-D00A0B-S4	21
BSP005Z	BSP B250-IV003-D00A0B-S4	21
BSP0060	BSP B400-IV003-D00A0B-S4	21
BSP0062	BSP V002-IV003-A02A0B-S4	21
BSP0063	BSP V010-IV003-A02A0B-S4	21
BSP0064	BSP B002-IV003-A02A0B-S4	21
BSP0065	BSP B005-IV003-A02A0B-S4	21
BSP0066	BSP B010-IV003-A02A0B-S4	21
BSP0067	BSP B020-IV003-A02A0B-S4	21
BSP0068	BSP B050-IV003-A02A0B-S4	21
BSP0069	BSP B100-IV003-A02A0B-S4	21
BSP006A	BSP B250-IV003-A02A0B-S4	21
BSP006C	BSP B400-IV003-A02A0B-S4	21
BSP006F	BSP V002-IV003-A00A0B-S4	21
BSP006H	BSP V010-IV003-A00A0B-S4	21
BSP006J	BSP B002-IV003-A00A0B-S4	21
BSP006K	BSP B005-IV003-A00A0B-S4	21
BSP006L	BSP B010-IV003-A00A0B-S4	21
BSP006M	BSP B020-IV003-A00A0B-S4	21
BSP006N	BSP B050-IV003-A00A0B-S4	21
BSP006P	BSP B100-IV003-A00A0B-S4	21
BSP006R	BSP B250-IV003-A00A0B-S4	21
BSP006T	BSP B400-IV003-A00A0B-S4	21
BSP006W	BSP V002-IV003-D01A0B-S4	21
BSP006Y	BSP V010-IV003-D01A0B-S4	21
BSP006Z	BSP B002-IV003-D01A0B-S4	21
BSP0070	BSP B005-IV003-D01A0B-S4	21
BSP0071	BSP B010-IV003-D01A0B-S4	21
BSP0072	BSP B020-IV003-D01A0B-S4	21
BSP0073	BSP B050-IV003-D01A0B-S4	21
BSP0074	BSP B100-IV003-D01A0B-S4	21
BSP0075	BSP B250-IV003-D01A0B-S4	21
BSP0076	BSP B400-IV003-D01A0B-S4	21

Alphanumeric Directory

Sorted by ordering code

Ordering code	Part number	Page
BSP0078	BSP V002-IV003-A03A0B-S4	21
BSP0079	BSP V010-IV003-A03A0B-S4	21
BSP007A	BSP B002-IV003-A03A0B-S4	21
BSP007C	BSP B005-IV003-A03A0B-S4	21
BSP007E	BSP B010-IV003-A03A0B-S4	21
BSP007F	BSP B020-IV003-A03A0B-S4	21
BSP007H	BSP B050-IV003-A03A0B-S4	21
BSP007J	BSP B100-IV003-A03A0B-S4	21
BSP007K	BSP B250-IV003-A03A0B-S4	21
BSP007L	BSP B400-IV003-A03A0B-S4	21
BSP007N	BSP V002-IV003-A01A0B-S4	21
BSP007P	BSP V010-IV003-A01A0B-S4	21
BSP007R	BSP B002-IV003-A01A0B-S4	21
BSP007T	BSP B005-IV003-A01A0B-S4	21
BSP007U	BSP B010-IV003-A01A0B-S4	21
BSP007W	BSP B020-IV003-A01A0B-S4	21
BSP007Y	BSP B050-IV003-A01A0B-S4	21
BSP007Z	BSP B100-IV003-A01A0B-S4	21
BSP0080	BSP B250-IV003-A01A0B-S4	21
BSP0081	BSP B400-IV003-A01A0B-S4	21
BSP0086	BSP V002-EV002-D00S1B-S4	15
BSP0087	BSP V010-EV002-D00S1B-S4	15
BSP0088	BSP B002-EV002-D00S1B-S4	15
BSP0089	BSP B005-EV002-D00S1B-S4	15
BSP008A	BSP B010-EV002-D00S1B-S4	15
BSP008C	BSP B020-EV002-D00S1B-S4	15
BSP008E	BSP B050-EV002-D00S1B-S4	15
BSP008F	BSP B100-EV002-D00S1B-S4	15
BSP008H	BSP B250-EV002-D00S1B-S4	15
BSP008J	BSP B400-EV002-D00S1B-S4	15
BSP008K	BSP B600-EV002-D00S1B-S4	15
BSP008L	BSP V002-EV002-A00S1B-S4	15
BSP008M	BSP V010-EV002-A00S1B-S4	15
BSP008N	BSP B002-EV002-A00S1B-S4	15
BSP008P	BSP B005-EV002-A00S1B-S4	15
BSP008R	BSP B010-EV002-A00S1B-S4	15
BSP008T	BSP B020-EV002-A00S1B-S4	15
BSP008U	BSP B050-EV002-A00S1B-S4	15
BSP008W	BSP B100-EV002-A00S1B-S4	15
BSP008Y	BSP B250-EV002-A00S1B-S4	15
BSP008Z	BSP B400-EV002-A00S1B-S4	15
BSP0090	BSP B600-EV002-A00S1B-S4	15
BSP0091	BSP V002-EV002-A02S1B-S4	15
BSP0092	BSP V010-EV002-A02S1B-S4	15
BSP0093	BSP B002-EV002-A02S1B-S4	15
BSP0094	BSP B005-EV002-A02S1B-S4	15
BSP0095	BSP B010-EV002-A02S1B-S4	15
BSP0096	BSP B020-EV002-A02S1B-S4	15
BSP0097	BSP B050-EV002-A02S1B-S4	15
BSP0098	BSP B100-EV002-A02S1B-S4	15
BSP0099	BSP B250-EV002-A02S1B-S4	15
BSP009A	BSP B400-EV002-A02S1B-S4	15
BSP009C	BSP B600-EV002-A02S1B-S4	15
BSP009E	BSP V002-EV002-A03S1B-S4	15
BSP009F	BSP V010-EV002-A03S1B-S4	15
BSP009H	BSP B002-EV002-A03S1B-S4	15
BSP009J	BSP B005-EV002-A03S1B-S4	15
BSP009K	BSP B010-EV002-A03S1B-S4	15
BSP009L	BSP B020-EV002-A03S1B-S4	15
BSP009M	BSP B050-EV002-A03S1B-S4	15
BSP009N	BSP B100-EV002-A03S1B-S4	15
BSP009P	BSP B250-EV002-A03S1B-S4	15
BSP009R	BSP B400-EV002-A03S1B-S4	15
BSP009T	BSP B600-EV002-A03S1B-S4	15
BSP009U	BSP V002-EV002-D01S1B-S4	15
BSP009W	BSP V010-EV002-D01S1B-S4	15
BSP009Y	BSP B002-EV002-D01S1B-S4	15
BSP009Z	BSP B005-EV002-D01S1B-S4	15

Ordering code	Part number	Page
BSP00A0	BSP B010-EV002-D01S1B-S4	15
BSP00A1	BSP B020-EV002-D01S1B-S4	15
BSP00A2	BSP B050-EV002-D01S1B-S4	15
BSP00A3	BSP B100-EV002-D01S1B-S4	15
BSP00A4	BSP B250-EV002-D01S1B-S4	15
BSP00A5	BSP B400-EV002-D01S1B-S4	15
BSP00A6	BSP B600-EV002-D01S1B-S4	15
BSP00A7	BSP V002-EV003-A02S1B-S4	19
BSP00A8	BSP V010-EV003-A02S1B-S4	19
BSP00A9	BSP B002-EV003-A02S1B-S4	19
BSP00AA	BSP B005-EV003-A02S1B-S4	19
BSP00AC	BSP B010-EV003-A02S1B-S4	19
BSP00AE	BSP B020-EV003-A02S1B-S4	19
BSP00AF	BSP B050-EV003-A02S1B-S4	19
BSP00AH	BSP B100-EV003-A02S1B-S4	19
BSP00AJ	BSP B250-EV003-A02S1B-S4	19
BSP00AK	BSP B400-EV003-A02S1B-S4	19
BSP00AL	BSP B600-EV003-A02S1B-S4	19
BSP00AM	BSP V002-EV003-A00S1B-S4	19
BSP00AN	BSP V010-EV003-A00S1B-S4	19
BSP00AP	BSP B002-EV003-A00S1B-S4	19
BSP00AR	BSP B005-EV003-A00S1B-S4	19
BSP00AT	BSP B010-EV003-A00S1B-S4	19
BSP00AU	BSP B020-EV003-A00S1B-S4	19
BSP00AW	BSP B050-EV003-A00S1B-S4	19
BSP00AY	BSP B100-EV003-A00S1B-S4	19
BSP00AZ	BSP B250-EV003-A00S1B-S4	19
BSP00C0	BSP B400-EV003-A00S1B-S4	19
BSP00C1	BSP B600-EV003-A00S1B-S4	19
BSP00C2	BSP V002-EV002-A01S1B-S4	15
BSP00C3	BSP V010-EV002-A01S1B-S4	15
BSP00C4	BSP B002-EV002-A01S1B-S4	15
BSP00C5	BSP B005-EV002-A01S1B-S4	15
BSP00C6	BSP B010-EV002-A01S1B-S4	15
BSP00C7	BSP B020-EV002-A01S1B-S4	15
BSP00C8	BSP B050-EV002-A01S1B-S4	15
BSP00C9	BSP B100-EV002-A01S1B-S4	15
BSP00CA	BSP B250-EV002-A01S1B-S4	15
BSP00CC	BSP B400-EV002-A01S1B-S4	15
BSP00CE	BSP B600-EV002-A01S1B-S4	15
BSP00CF	BSP V002-EV003-D00S1B-S4	19
BSP00CH	BSP V010-EV003-D00S1B-S4	19
BSP00CJ	BSP B002-EV003-D00S1B-S4	19
BSP00CK	BSP B005-EV003-D00S1B-S4	19
BSP00CL	BSP B010-EV003-D00S1B-S4	19
BSP00CM	BSP B020-EV003-D00S1B-S4	19
BSP00CN	BSP B050-EV003-D00S1B-S4	19
BSP00CP	BSP B100-EV003-D00S1B-S4	19
BSP00CR	BSP B250-EV003-D00S1B-S4	19
BSP00CT	BSP B400-EV003-D00S1B-S4	19
BSP00CU	BSP B600-EV003-D00S1B-S4	19
BSP00CW	BSP V002-EV003-D01S1B-S4	19
BSP00CY	BSP V010-EV003-D01S1B-S4	19
BSP00CZ	BSP B002-EV003-D01S1B-S4	19
BSP00E0	BSP B005-EV003-D01S1B-S4	19
BSP00E1	BSP B010-EV003-D01S1B-S4	19
BSP00E2	BSP B020-EV003-D01S1B-S4	19
BSP00E3	BSP B050-EV003-D01S1B-S4	19
BSP00E4	BSP B100-EV003-D01S1B-S4	19
BSP00E5	BSP B250-EV003-D01S1B-S4	19
BSP00E6	BSP B400-EV003-D01S1B-S4	19
BSP00E7	BSP B600-EV003-D01S1B-S4	19
BSP00E8	BSP V002-EV003-A01S1B-S4	19
BSP00E9	BSP V010-EV003-A01S1B-S4	19
BSP00EA	BSP B002-EV003-A01S1B-S4	19
BSP00EC	BSP B005-EV003-A01S1B-S4	19
BSP00EE	BSP B010-EV003-A01S1B-S4	19
BSP00EF	BSP B020-EV003-A01S1B-S4	19

Alphanumeric Directory

Sorted by ordering code




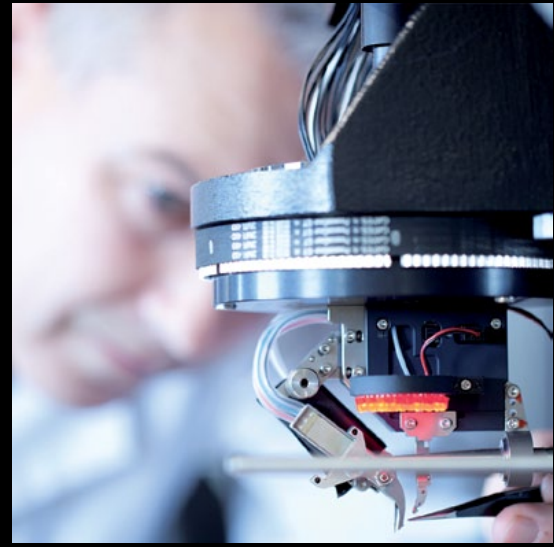

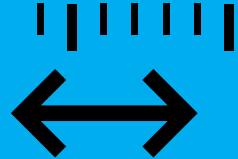



Ordering code	Part number	Page
BSP00EH	BSP B050-EV003-A01S1B-S4	19
BSP00EJ	BSP B100-EV003-A01S1B-S4	19
BSP00EK	BSP B250-EV003-A01S1B-S4	19
BSP00EL	BSP B400-EV003-A01S1B-S4	19
BSP00EM	BSP B600-EV003-A01S1B-S4	19
BSP00EN	BSP V002-EV003-A03S1B-S4	19
BSP00EP	BSP V010-EV003-A03S1B-S4	19
BSP00ER	BSP B002-EV003-A03S1B-S4	19
BSP00ET	BSP B005-EV003-A03S1B-S4	19
BSP00EU	BSP B250-EV003-A03S1B-S4	19
BSP00EW	BSP B020-EV003-A03S1B-S4	19
BSP00EY	BSP B050-EV003-A03S1B-S4	19
BSP00EZ	BSP B100-EV003-A03S1B-S4	19
BSP00F0	BSP B250-EV003-A03S1B-S4	19
BSP00F1	BSP B400-EV003-A03S1B-S4	19
BSP00F2	BSP B600-EV003-A03S1B-S4	19
BSP00F3	BSP B400-DV004-A06A1A-S4	25
BSP00FT	BSP B100-HV004-A06A1A-S4	25
BSP00FW	BSP V002-DV004-A06A1A-S4	25
BSP00FY	BSP V010-DV004-A06A1A-S4	25
BSP00FZ	BSP B002-DV004-A06A1A-S4	25
BSP00H0	BSP B005-DV004-A06A1A-S4	25
BSP00H1	BSP B010-DV004-A06A1A-S4	25
BSP00H2	BSP B020-DV004-A06A1A-S4	25
BSP00H3	BSP B050-DV004-A06A1A-S4	25
BSP00H4	BSP B100-DV004-A06A1A-S4	25
BSP00H5	BSP B250-DV004-A06A1A-S4	25
BSP00H6	BSP B600-DV004-A06A1A-S4	25
BSP00H7	BSP V002-FV004-A06A1A-S4	25
BSP00H8	BSP V010-FV004-A06A1A-S4	25
BSP00H9	BSP B002-FV004-A06A1A-S4	25
BSP00HA	BSP B005-FV004-A06A1A-S4	25
BSP00HC	BSP B010-FV004-A06A1A-S4	25
BSP00HE	BSP B020-FV004-A06A1A-S4	25
BSP00HF	BSP B050-FV004-A06A1A-S4	25
BSP00HH	BSP B100-FV004-A06A1A-S4	25
BSP00HJ	BSP B250-FV004-A06A1A-S4	25
BSP00HK	BSP B400-FV004-A06A1A-S4	25
BSP00HL	BSP B600-FV004-A06A1A-S4	25
BSP00HM	BSP V002-KV004-A06A1A-S4	25
BSP00HN	BSP V010-KV004-A06A1A-S4	25
BSP00HP	BSP B002-KV004-A06A1A-S4	25
BSP00HR	BSP B005-KV004-A06A1A-S4	25
BSP00HT	BSP B010-KV004-A06A1A-S4	25
BSP00HU	BSP B020-KV004-A06A1A-S4	25
BSP00HW	BSP B050-KV004-A06A1A-S4	25
BSP00HY	BSP B100-KV004-A06A1A-S4	25
BSP00HZ	BSP B250-KV004-A06A1A-S4	25
BSP00J0	BSP B400-KV004-A06A1A-S4	25
BSP00J1	BSP B600-KV004-A06A1A-S4	25
BSP00J2	BSP V002-HV004-A06A1A-S4	25
BSP00J3	BSP V010-HV004-A06A1A-S4	25
BSP00J4	BSP B002-HV004-A06A1A-S4	25
BSP00J5	BSP B005-HV004-A06A1A-S4	25
BSP00J6	BSP B010-HV004-A06A1A-S4	25
BSP00J7	BSP B020-HV004-A06A1A-S4	25
BSP00J8	BSP B050-HV004-A06A1A-S4	25
BSP00J9	BSP B250-HV004-A06A1A-S4	25
BSP00JA	BSP B400-HV004-A06A1A-S4	25
BSP00JC	BSP B600-HV004-A06A1A-S4	25
BSP00JE	BSP V002-DV004-A04A1A-S4	23
BSP00JF	BSP V010-DV004-A04A1A-S4	23
BSP00JH	BSP B002-DV004-A04A1A-S4	23
BSP00JJ	BSP B005-DV004-A04A1A-S4	23
BSP00JK	BSP B010-DV004-A04A1A-S4	23
BSP00JL	BSP B020-DV004-A04A1A-S4	23
BSP00JM	BSP B050-DV004-A04A1A-S4	23
BSP00JN	BSP B100-DV004-A04A1A-S4	23

Ordering code	Part number	Page
BSP00JP	BSP B250-DV004-A04A1A-S4	23
BSP00JR	BSP B400-DV004-A04A1A-S4	23
BSP00JT	BSP B600-DV004-A04A1A-S4	23
BSP00JU	BSP V002-FV004-A04A1A-S4	23
BSP00JW	BSP V010-FV004-A04A1A-S4	23
BSP00JY	BSP B002-FV004-A04A1A-S4	23
BSP00JZ	BSP B005-FV004-A04A1A-S4	23
BSP00K0	BSP B010-FV004-A04A1A-S4	23
BSP00K1	BSP B020-FV004-A04A1A-S4	23
BSP00K2	BSP B050-FV004-A04A1A-S4	23
BSP00K3	BSP B100-FV004-A04A1A-S4	23
BSP00K4	BSP B250-FV004-A04A1A-S4	23
BSP00K5	BSP B400-FV004-A04A1A-S4	23
BSP00K6	BSP B600-FV004-A04A1A-S4	23
BSP00K7	BSP V002-KV004-A04A1A-S4	23
BSP00K8	BSP V010-KV004-A04A1A-S4	23
BSP00K9	BSP B002-KV004-A04A1A-S4	23
BSP00KA	BSP B005-KV004-A04A1A-S4	23
BSP00KC	BSP B010-KV004-A04A1A-S4	23
BSP00KE	BSP B020-KV004-A04A1A-S4	23
BSP00KF	BSP B050-KV004-A04A1A-S4	23
BSP00KH	BSP B100-KV004-A04A1A-S4	23
BSP00KJ	BSP B250-KV004-A04A1A-S4	23
BSP00KK	BSP B400-KV004-A04A1A-S4	23
BSP00KL	BSP B600-KV004-A04A1A-S4	23
BSP00KM	BSP V002-HV004-A04A1A-S4	23
BSP00KN	BSP V010-HV004-A04A1A-S4	23
BSP00KP	BSP B002-HV004-A04A1A-S4	23
BSP00KR	BSP B005-HV004-A04A1A-S4	23
BSP00KT	BSP B010-HV004-A04A1A-S4	23
BSP00KU	BSP B020-HV004-A04A1A-S4	23
BSP00KW	BSP B050-HV004-A04A1A-S4	23
BSP00KY	BSP B100-HV004-A04A1A-S4	23
BSP00KZ	BSP B250-HV004-A04A1A-S4	23
BSP00L0	BSP B400-HV004-A04A1A-S4	23
BSP00L1	BSP B600-HV004-A04A1A-S4	23

SENSOR SOLUTIONS AND SYSTEMS

For all areas of the automation industry

As a global player, we stand for comprehensive system expertise, continuous innovation, the highest quality and the greatest reliability. Balluff means technological variety and first-class service. Our 2450 worldwide employees are working to ensure this.

	 <p>Systems and Service</p>	 <p>Industrial Networking and Connectivity</p>	 <p>Industrial Identification</p>	
		 <p>Object Detection</p>	 <p>Linear Position Sensing and Measurement</p>	
			 <p>Fluid Sensors</p>	 <p>Accessories</p>

BALLUFF

sensors worldwide



Systems and Services



Industrial Networking and Connectivity



Industrial Identification



Object Detection



Linear Position Sensing and Measurement



Fluid Sensors



Accessories

USA

Balluff Inc.
8125 Holton Drive
Florence, KY 41042
Phone: (859) 727-2200
Toll-free: 1-800-543-8390
Fax: (859) 727-4823
E-Mail: balluff@balluff.com

Canada

Balluff Canada, Inc.
2840 Argentic Road, Unit #2
Mississauga, Ontario L5N 8G4
Phone: (905) 816-1494
Toll-free: 1-800-927-9654
Fax: (905) 816-1411
E-Mail: balluff.canada@balluff.ca

Mexico

Balluff de México SA de CV
Anillo Vial II Fray Junípero Serra No. 4416
Colonia La Vista Residencial.
Querétaro, Qro. CP76232
Phone: (+52 442) 212-4882
Fax: (+52 442) 214-0536
E-Mail: balluff.mexico@balluff.com