



BSP Pressure Sensors

Reliable Solutions for the Automation Industry



With over 50 years of sensor experience, Balluff is a leading global sensor specialist with its own line of connectivity products for every area of factory automation. Balluff is based in Germany and has a tight international network of 54 representatives and subsidiaries.

Balluff stands for comprehensive systems from a single source, continuous innovation, state-of-the-art technology, highest quality and greatest reliability and prides itself on distinctive customer orientation, custom-tailored solutions, fast worldwide service and outstanding application assistance.

High-quality, innovative products and a quality management system certified according to DIN ISO 9001 (EN 2008) form a secure foundation for optimized added value for our customers.

Whether electronic and mechanical sensors, rotary and linear transducers, identification systems or optimized connection technology for high-performance automation, Balluff masters not only the entire technological variety with all of the different operating principles, but also provides technology that fulfills regional quality standards and is suitable for use worldwide. Wherever you are in the world, Balluff technology is never far away. You won't have to look far for you nearest Balluff expert.

Balluff products increase performance, guality and productivity around the world every day. They satisfy prerequisites for meeting demands for greater performance and cost reductions on the global market. Even in the most demanding areas. No matter how stringent your requirements may be, Balluff delivers state-of-the-art solutions.

Advanced technology, individual solutions: high quality for greater efficiency.

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Especially user-friendly

BSP Pressure Sensors Reliable Solutions for the Automation Industry

BSP pressure sensors from Balluff were designed for measuring the pressure of gases and liquids. A rotary housing and two-button programming make these sensors flexible to install and easy to operate. The bright LED display provides up-todate information on the current system pressure.

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Alphanumerical directory Worldwide sales 20 22



BSP Pressure Sensors

Reliable Solutions for the Automation Industry

BSP pressure sensors from Balluff guarantee the consistently high quality of your products.

Process technology is becoming more and more important in the factory automation sector. The monitoring of process materials such as cooling lubricant, hydraulic and pneumatic fluids has an important influence on production quality. BSP pressure sensors from Balluff guarantee the consistently high quality of your products.









BSP Pressure Sensors Reliable Solutions for the Automation Industry

- Save space when positioning the versatile sensor in the switching cabinet – the exceptionally compact sensor has independently rotating display and connection housings.
- View the system pressure at a glance Balluff pressure sensors have a large, brightly illuminated LED display.
- Clear menu navigation for the quick and easy adjustment of pressure parameters – configure the sensor using 2 buttons in line with VDMA standards.
- Also suitable for harsh industrial applications Balluff offers high-end versions in a high-quality, hard-wearing stainless steel housing with degree of protection IP 67.
- Reliable operation of your plants even under demanding conditions (pressure peaks) – reliable ceramic measuring cells guarantee long-term stability and durability.
- Simple installation with globally standardized screw fittings – process connection via a G 1/4" 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.

Application areas

- Hydraulics
- Pneumatics
- Machine tools
- Plastics technology
- Packaging machines
- Wind turbines
- Off-shore

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Туре	Standard	High-End	
From page	14	16	
Housing material			
Plastic			
Stainless steel		-	
Special properties			
Standard temperature range –25+85 °C	—	-	
Increased temperature range –40+85 °C		-	
Display housing rotates 320°			
Connection housing with M12 plug rotates 320°	.		
Application areas and applications			
Hydraulics	—	-	
Pneumatics	•		
Machine tools	•	-	
Plastics technology	-	-	
Packaging machines		-	
Wind turbines			
Off-shore			

BSP Pressure Sensors

Applications

Multi-talented: BSP Balluff pressure sensors combine the advantages of a display, measuring transducer and pressure switch in a single device.

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 a crucial factor in achieving dimensional accuracy and quality of the products manufactured. A BSP pressure sensor with analog output monitors the available hydraulic pressure in order to control the process accurately while achieving a satisfactory degree of repeatability.

Coolant monitoring on machine tools

The pressure in the coolant supply system must be monitored continually to guarantee the consistently high surface quality of machined workpieces. Balluff 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.



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

- Ceramic measuring cells offer stability in the long term
- Display is easy to read
- Reliable machine operation



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Central hydraulic unit on wind turbines

Many central systems on a wind turbine such as the pitch control and braking system are operated hydraulically. The high-end 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 the maximum or minimum permitted levels.

Vacuum grippers

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. Balluff BSP pressure sensors designed for vacuum applications are used to monitor the pressure of the vacuum suckers and make sure they grip reliably.









Benefits

- Compact housing
- Simple installation
- Vacuum sensors up to -1 bar relative pressure

Benefits

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

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Sensor design

Pressure characteristics

	4-digit alphanumerical display
12	Control panel with 2 programming buttons
	Plastic or stainless steel display housing that rotates 320°
	Connected housing IP 67
	Stainless steel connection housing with M12 plug rotates 320°
	Ceramic measuring cell offers stability in the long term
	Process connection with G 1/4* internal thread
) V	

 Principle of operation
 Balluff pressure sensors convert the physical pressure variable (force per surface) into an electrical output variable that serves as a pressure indicator. BSP Balluff pressure sensors use a ceramic membrane to perform this conversion process. The electrical signal is amplified and linearized and interfering factors such as temperature are compensated.

> **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 relevant atmospheric pressure. Measuring pressures greater than air pressure always produces positive values. Pressures lower than air pressure produce negative values.

Nominal pressure: corresponds to the maximum design pressure.

Cracking pressure: minimum pressure that the pressure sensor must withstand without being destroyed. If this pressure is exceeded, it is certain that pressurized components will burst, the device will begin to leak or internal mechanisms will be destroyed.

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

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





Hysteresis, adjustable

The difference between the switching point (SP) and return point (RP) is known as a 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 either side 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.



Switching function

4-wire pressure sensors with switching output



4-wire pressure sensors with analog output



Pin assignments	Electrical	Pressure sensors	Pressure sensors	
	connections	with switching output	with analog output	
	Supply +	1	1	
	Supply -	3	3	
	Signal +		2	
	Switching output 1	4	4	
	Switching output 7	т О	7	
	Switching Output 2	2 Connector bouging	Connector bouging	
	SITIEIU	Connector nousing	Connector nousing	
Operating voltage U _B	is the voltage range in is assured. It includes a	which flawless functioni all voltage tolerances ar	ing of the sensor nd ripple.	
Output current max.	is the maximum current with which the output of the sensor may be loaded in continuous operation.			
No-load supply current I_0 max.	is the power consumption operating voltage U_{O} a	s the power consumption of the sensor with a maximum sperating voltage U_{O} and with no connected load.		
Short-circuit protection and overload protection	All DC sensors feature or short-circuit at the c switched off. As soon a output stage is reset to	this protection device. I utput, the output transi as the malfunction has I o normal functioning.	In the event of overload stor is automatically been corrected, the	
Polarity reversal protection	The sensor electronics sal or interchanging of	are protected against p the connection wires.	oossible polarity rever-	
Ambient temperature range T_a	The device operates re ambient temperature ra range specified on the the upper or lower rang	liably within this temper ange of the device mus relevant data sheet and ge limits.	rature range. The t remain within the d should not exceed	
Temperature drift	When changes in the a the switching point to s	mbient temperature rar shift.	nge cause	
Switching frequency f max.	is a succession of period that occur during one s	odically repeated senso second.	r switching cycles	

Materials

Material	Use and characteristics
Plastics	
PA 6.6	Good mechanical strength.
polyamide	Temperature resistance.
FKM	Resistant to pressure deformation. Temperature resistance.
Fluoroelastomer	Good chemical resistance.
PUR	Elastic, abrasion-resistant, impact-resistant. Good resistance to
Polyurethane	oils, greases, solvents (used for gaskets and cable jackets).
PVC	Good mechanical strength.
Polyvinylchloride	Chemical resistance (cable).
Metal	
Stainless steel	Excellent corrosion resistance and strength.
	Quality 1.4301: Standard material for the foods industry.
Other	
Ceramic	Very good strength and chemical resistance.
	Electrically insulating. Excellent temperature resistance.

Degree of protection

The enclosure ratings IP 20, IP 40, IP 54, IP 64 up to IP 68 are in accordance with IEC 60529. Code letters IP (International Protection) designate protection against shock hazard, ingress of solid foreign bodies, and water, for electrical equipment.

First digit:

- Protection against penetration of solid bodies larger than 12 mm, shielding from fingers and objects
 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:

- No special protection
 Protection against water spraying from all directions against the piece of equipment concerned
 Protection against a water jet from
- 5 Protection against a water jet from a nozzle directed towards the piece of equipment concerned from any direction
- 7 Protection against water, when the piece of equipment concerned (housing) is immersed in water under specified pressure and time conditions 8 Protection against water during continuous submersion

Display



Different pressure units can be selected

	Function ready/error indicato
Luminc	us, 4-digit, 7-segment displa
Change	menus and adjust parameters
	Display parameters

Plastic or stainless steel display housing that rotates 320°

	Description	ASCII		Description	ASCII
5888	Switching point (1)	SP1	8668	NO with hysteresis function	HNO
8888	Return point (1)	RP1	8888	NO with window function	FNO
5882	Switching point (2)	SP2	8668	NC with hysteresis function	HNC
888	Return point (2)	RP2	8888	NC with window function	HNC
6888	Pressure window, upper value (1)	FH1	8888	Unit selection	Uni
8888	Pressure window, lower value (1)	FL1	8888	Unit bar	bar
8888	Pressure window, upper value (2)	FH2	8888	Unit MPa	MPa
8888	Pressure window, lower value (2)	FL2	8888	Unit Pa	Pa
8888	Extended function	EF	85 88	Unit psi	psi
-85	Reset	RES	8888	Min. value	LO
8588	Switching delay time (1)	dS1	8888	Max. value	HI
8888	Switching delay time (2)	dS2	888	Diagnostic function	DIA
3888	Return delay time (1)	dR1	8888	Error indicator	ERR
8888	Return delay time (2)	dR2	8858	Display	DIS
5888	Output (1)	Ou1	8858	Yes	Yes
5882	Output (2)	Ou2	8888	No	No

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Setting and adjusting parameters

Balluff BSP pressure sensors are easy to configure in line with VDMA standards: **Change menus** – Press the ⁽¹⁾ button to switch to programming mode and modify the pressure sensor settings. **Display parameters** – Press the ⁽²⁾ button to show the relevant parameter on the display. **Set parameter** – Press the ⁽¹⁾ 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 here) and RP 1 (7.05 bar here) produces the hysteresis (2 bar here) 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.



 

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 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

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- Window function
- Hysteresis function
- Unit selection
 Min./max. value
- Willi./ITIax. Value

www.balluff.com



Standard Balluff pressure sensors offer an impressive price/ performance ratio and are suitable for a wide variety of applications in factory automation. A large display and simple operating concept save time when configuring parameters. These Balluff pressure sensors are versatile and space-saving. The display and electrical output can rotated independently of the flange. Other features of these sensors include:

- A compact housing design
- A local pressure indicator
- Digital switching outputs
- Analog output signals



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



Display and control panel



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Material

Connection

Design	Relative nomi- nal pressure	Overload pressure	Cracking pressure ≥	Permitted vacuum
Pressure sensors -12 bar	2 bar	4 bar	10 bar	
Pressure sensors -110 bar	10 bar	20 bar	35 bar	
Pressure sensors 02 bar	2 bar	4 bar	10 bar	
Pressure sensors 05 bar	5 bar	10 bar	15 bar	of
Pressure sensors 010 bar	10 bar	20 bar	35 bar	brd
Pressure sensors 020 bar	20 bar	40 bar	75 bar	Ę
Pressure sensors 050 bar	50 bar	100 bar	150 bar	SUL
Pressure sensors 0100 bar	100 bar	200 bar	250 bar	vac
Pressure sensors 0250 bar	250 bar	400 bar	450 bar	
Pressure sensors 0400 bar	400 bar	650 bar	700 bar	
Pressure sensors 0600 bar	600 bar	750 bar	800 bar	

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–12 bar	PNP	Ordering code	
–14.529 psi		Part number	
	NPN	Ordering code	
		Part number	
-110 bar	PNP	Ordering code	
–14.5145 psi		Part number	
	NPN	Ordering code	
		Part number	
02 bar	PNP	Ordering code	
029 psi		Part number	
	NPN	Ordering code	
		Part number	
05 bar	PNP	Ordering code	
073 psi	NIDNI	Part number	
	NPN	Ordering code	
o (o)	DND	Part number	
010 bar	PNP	Ordering code	
0145 psi		Part number	
	NPN	Ordering code	
0.00 h au		Part number	
020 bar	PNP	Ordering code	
0290 psi		Part number	
	INPIN	Dort number	
0 50 hor		Ordering code	
050 Dar	FINE	Dort number	
0725 pSi		Ordering code	
		Part number	
0 100 bar		Ordering code	
0. 1450 pei	I INI	Part number	
01450 psi	NPN	Ordering code	
		Part number	
0 250 bar	PNP	Ordering code	
03626 psi	1 1 1	Part number	
onicozo por	NPN	Ordering code	
		Part number	
0400 bar	PNP	Ordering code	
05802 psi		Part number	
	NPN	Ordering code	
		Part number	
0600 bar	PNP	Ordering code	
08702 psi		Part number	
•	NPN	Ordering code	
		Part number	
Operating volta	ge U _B		
Output current	max.		
No-load supply	current I ₀	max.	
Switching frequ	iency f ma	X.	
Accuracy			
Temperature er	ror		
Reverse polarity	y/short-cir	cuit protected	
Ambient/materi	ial tempera	ature	
Display/function	n indicator	S	
Degree of prote	ection per	IEC 60529	

Housing Measuring cell

Connectors Process connection

Seal

CE



BSP004F

2 programmable switching points (NO or NC)



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



BSP Pressure Sensors

Standard sensors

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



BSP V002-EV002-D00A0B-S4 BSP004N BSP V002-EV002-D01A0B-S4 BSP004H BSP V010-EV002-D00A0B-S4 BSP004P BSP V010-EV002-D01A0B-S4 BSP000F BSP B002-EV002-D00A0B-S4 BSP003K BSP B002-EV002-D01A0B-S4 BSP000H BSP B005-EV002-D00A0B-S4 BSP003L BSP B005-EV002-D01A0B-S4 BSP000J BSP B010-EV002-D00A0B-S4 BSP001F BSP B010-EV002-D01A0B-S4 BSP000K BSP B020-EV002-D00A0B-S4 BSP001H BSP B020-EV002-D01A0B-S4 BSP000L BSP B050-EV002-D00A0B-S4 BSP001J BSP B050-EV002-D01A0B-S4 BSP000M BSP B100-EV002-D00A0B-S4 BSP001K BSP B100-EV002-D01A0B-S4 **BSP000N** BSP B250-EV002-D00A0B-S4 BSP001L BSP B250-EV002-D01A0B-S4 BSP000P BSP B400-EV002-D00A0B-S4 BSP003M BSP B400-EV002-D01A0B-S4 BSP000R BSP B600-EV002-D00A0B-S4 BSP003N BSP B600-EV002-D01A0B-S4 18...36 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL $\leq \pm 0.3$ % FSO/10 K Yes/yes -25...+85 °C/-25...+125 °C 7 segment display/LED IP 67 (when connected) PA 6.6, stainless steel Ceramic

BSP004J
BSP V002-EV002-A00A0B-S4
BSP004R
BSP V002-EV002-A01A0B-S4
BSP004K
BSP V010-EV002-A00A0B-S4
BSP004T
BSP V010-EV002-A01A0B-S4
BSP000T
BSP B002-EV002-A00A0B-34
BSP B002-EV002-A01A0B-S4
BSP0000
BSP B005-EV002-A00A0B-S4
BSP003R
BSP B005-EV002-A01A0B-S4
BSP000W
BSP B010-EV002-A00A0B-S4
BSP001M
BSP B010-EV002-A01A0B-S4
BSP000Y
BSP B020-EV002-40040B-S4
BSP001N
BSF B020-EV002-A01A0B-34
BSPUUZ
BSP B050-EV002-A00A0B-S4
BSP001P
BSP B050-EV002-A01A0B-S4
BSP0010
BSP B100-EV002-A00A0B-S4
BSP001R
BSP B100-EV002-A01A0B-S4
BSP0011
BSP B250-EV002-A00A0B-S4
BSP001T
BSP B250-EV/002-A01A0B-S/
BOD0010
BSP0012 BSP B400-EV002-A00A0B-S4
BSP B400-EV002-A00A0B-S4 BSP003T
BSP B400-EV002-A00A0B-S4 BSP B400-EV002-A01A0B-S4 BSP B400-EV002-A01A0B-S4
BSP 0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 1836 V DC
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz < ±0.5 % FSO BES!
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 BSP B600-EV002-A01A0B-S4 BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA \leq 50 mA 200 Hz \leq ±0.5 % FSO BFSL \leq ±0.3 % ESO/10 K
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Vas(uas
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Yes/yes 25495 %C/ 25125 %C
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Yes/yes -25+85 °C/-25+125 °C
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Yes/yes -25+85 °C/-25+125 °C 7 segment display/LED
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Yes/yes -25+85 °C/-25+125 °C 7 segment display/LED IP 67 (when connected)
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP003U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Yes/yes -25+85 °C/-25+125 °C 7 segment display/LED IP 67 (when connected) PA 6.6, stainless steel
BSP0012 BSP B400-EV002-A00A0B-S4 BSP003T BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 S S S S S S S S S S S S S S S S S S
BSP 0012 BSP B400-EV002-A00A0B-S4 BSP B400-EV002-A01A0B-S4 BSP B400-EV002-A01A0B-S4 BSP0013 BSP B600-EV002-A00A0B-S4 BSP03U BSP B600-EV002-A01A0B-S4 1836 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL ≤ ±0.5 % FSO BFSL ≤ ±0.3 % FSO/10 K Yes/yes -25+85 °C/-25+125 °C 7 segment display/LED IP 67 (when connected) PA 6.6, stainless steel Ceramic Fluoroelastomer

G 1/4"

BSP004L
BSP V002-EV002-A02A0B-S4
BSP004U
BSP V002-EV002-A03A0B-S4
BSP004M
BSP V010-EV002-A02A0B-S4
BSP004W
BSP V010-EV002-A03A0B-S4
BSP0014
BSP B002-EV/002-A02A0B-S/
BSP003W
BSP B002-EV/002-A03A0B-S4
BSF 6002-2002-A05A0B-54
BSF B005-EV002-A02A0B-34
 BSP B005-EV002-A03A0B-S4
BSP0016
 BSP B010-EV002-A02A0B-S4
BSP001U
 BSP B010-EV002-A03A0B-S4
BSP0017
 BSP B020-EV002-A02A0B-S4
BSP001W
BSP B020-EV002-A03A0B-S4
BSP0018
BSP B050-EV002-A02A0B-S4
BSP001Y
BSP B050-EV002-A03A0B-S4
BSP0019
BSP B100-EV002-A02A0B-S4
BSP001Z
BSP B100-EV002-A03A0B-S4
BSP001A
BSP B250-EV002-A02A0B-S4
BSP0020
BSP B250-EV002-A03A0B-S4
BSP001C
BSP B400-EV002-A02A0B-S4
BSP003Z
BSP B400-EV002-A03A0B-S4
BSP001E
BSP B600-EV002-A02A0B-S4
BSP0040
BSP B600-EV002-A03A0B-S4
1836 V DC
500 mA
≤ 50 mA
200 Hz
≤ ±0.5 % FSO BFSL
≤ ±0.3 % FSO/10 K
Yes/yes
–25…+85 °C/–25…+125 °C
7 segment display/LED
IP 67 (when connected)
PA 6.6, stainless steel
Ceramic
Fluoroelastomer
M12 connector, 4-pin
G 1/4"

Standard Sensors High-End

Sensors

Fluoroelastomer M12 connector, 4-pin

G 1/4"



Balluff pressure sensors for high-end applications were designed for demanding requirements and extended temperature ranges. The high-end pressure sensor is ideal for harsh environments. The compact housing is manufactured entirely from hard-wearing stainless steel. Parameters are configured quickly and easily in line with VDMA standards. High-end applications include:

- Wind turbines
- Off-shore
- Refrigeration and air-conditioning systems



The high-end version of the Balluff BSP 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.



Display and control panel



Design	Relative nomi-	Overload	Cracking	Permitted
Pressure sensors -12 bar	2 bar	4 bar	10 bar	laouum
Pressure sensors -110 bar	10 bar	20 bar	35 bar	
Pressure sensors 02 bar	2 bar	4 bar	10 bar	
Pressure sensors 05 bar	5 bar	10 bar	15 bar	of
Pressure sensors 010 bar	10 bar	20 bar	35 bar	brd
Pressure sensors 020 bar	20 bar	40 bar	75 bar	E
Pressure sensors 050 bar	50 bar	100 bar	150 bar	nna
Pressure sensors 0100 bar	100 bar	200 bar	250 bar	vac
Pressure sensors 0250 bar	250 bar	400 bar	450 bar	
Pressure sensors 0400 bar	400 bar	650 bar	700 bar	
Pressure sensors 0600 bar	600 bar	750 bar	800 bar	

Ø 34

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–12 bar	PNP	Ordering code			
–14.529 psi		Part number			
	NPN	Ordering code			
		Part number			
–110 bar	PNP	Ordering code			
–14.5145 psi		Part number			
	NPN	Ordering code			
		Part number			
02 bar	PNP	Ordering code			
029 psi		Part number			
	INPIN	Ordering code			
0.5 hav		Part number			
05 bar	PINP	Dort number			
075 psi		Ordering code			
		Part number			
0 10 har		Ordering code			
0 145 nei	1 1 1 1	Part number			
0140 p31		Ordering code			
		Part number			
020 bar	PNP	Ordering code			
0290 psi		Part number			
	NPN	Ordering code			
		Part number			
050 bar	PNP	Ordering code			
0725 psi		Part number			
	NPN	Ordering code			
		Part number			
0100 bar	PNP	Ordering code			
01450 psi		Part number			
	NPN	Ordering code			
		Part number			
0250 bar	PNP	Ordering code			
03626 psi		Part number			
	NPN	Ordering code			
		Part number			
0400 bar	PNP	Ordering code			
05802 psi		Part number			
	INPIN	Ordering code			
0 600 hor		Ordering code			
0000 bar	PNP	Draering code			
00702 psi		Ordering code			
		Part number			
Operating voltage	ie Up				
Output current r	nax				
No-load supply	No-load supply current la max				
Switching frequency f max.					
Accuracy					
Temperature err	or				
Reverse polarity/short-circuit protected					
Ambient/material temperature					
Display/function indicators					

Degree of protection per IEC 60529

Housing Measuring cell

Connectors Process connection

Seal

Material

Connection

CE



BSP004Y

BSP V002-EV003-D00A0B-S4

2 programmable switching points (NO or NČ)



BSP0050

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



BSP Pressure Sensors

High-End Sensors

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



BSP0054 BSP V002-EV003-D01A0B-S4 BSP004Z BSP V010-EV003-D00A0B-S4 **BSP0055** BSP V010-EV003-D01A0B-S4 **BSP0021** BSP B002-EV003-D00A0B-S4 BSP0041 BSP B002-EV003-D01A0B-S4 **BSP0022** BSP B005-EV003-D00A0B-S4 **BSP0042** BSP B005-EV003-D01A0B-S4 **BSP0023** BSP B010-EV003-D00A0B-S4 **BSP0031** BSP B010-EV003-D01A0B-S4 **BSP0024** BSP B020-EV003-D00A0B-S4 **BSP0032** BSP B020-EV003-D01A0B-S4 **BSP0025** BSP B050-EV003-D00A0B-S4 **BSP0033** BSP B050-EV003-D01A0B-S4 **BSP0026** BSP B100-EV003-D00A0B-S4 **BSP0034** BSP B100-EV003-D01A0B-S4 **BSP0027** BSP B250-EV003-D00A0B-S4 **BSP0035** BSP B250-EV003-D01A0B-S4 **BSP0028** BSP B400-EV003-D00A0B-S4 **BSP0043** BSP B400-EV003-D01A0B-S4 **BSP0029** BSP B600-EV003-D00A0B-S4 **BSP0044** BSP B600-EV003-D01A0B-S4 18...36 V DC 500 mA ≤ 50 mA 200 Hz ≤ ±0.5 % FSO BFSL $\leq \pm 0.3$ % FSO/10 K Yes/yes -40...+85 °C/-40...+125 °C 7 segment display/LED IP 67 (when connected) Stainless steel Ceramic

BSP V002-EV003-A00A0B-S4
BSP0056
BSP V002-EV003-A01A0B-S4
BSP0051
BSP V010-EV003-A00A0B-S4
BSP0057
BSP V010-EV003-A01A0B-S4
BSP002A
BSP B002-EV003-A00A0B-S4
BSP0045
BSP B002-EV003-A01A0B-S4
BSP002C
BSP B005-EV003-A00A0B-S4
BSP0046
BSP B005-EV003-A01A0B-S4
BSP002E
BSP B010-EV003-A00A0B-S4
BSP0036
BSP B010-EV003-A01A0B-S4
BSP002F
BSP B020-EV003-A00A0B-S4
BSP0037
BSP B020-EV003-A01A0B-S4
BSP002H
BSP B050-EV003-A00A0B-S4
BSP0038
BSP B050-EV003-A01A0B-S4
BSP002J
BSP B100-EV003-A00A0B-S4
BSP0039
BSP B100-EV003-A01A0B-S4
BSP002K
BSP B250-EV003-A00A0B-S4
BSP003A
BSP B250-EV003-A01A0B-S4
BSP002L
BSP B400-EV003-A00A0B-S4
BSP0047
BSP B400-EV003-A01A0B-S4
BSP002M
BSP B600-EV003-A00A0B-S4
BSP0048
BSP B600-EV003-A01A0B-S4
1836 V DC
500 mA
≤ 50 mA
200 Hz
≤ ±0.5 % FSO BFSL
≤ ±0.3 % FSO/10 K
Yes/yes
-40+85 °C/-40+125 °C
7 segment display/LED
IP 67 (when connected)
Stainless steel
Ceramic
Fluoroelastomer
M12 connector 4-pin

G 1/4"

	BSP0052
	BSP V002-EV003-A02A0B-S4
	BSP0058
	BSP V002-EV003-A03A0B-S4
	BSP0053
	BSP V010-EV003-A02A0B-S4
	BSP0059
	BSP.V010-EV003-A03A0B-S4
	BSD002N
	BSP 002 EV002 40240B S4
	BSP 0002-LV003-A02A0D-34
	BSF 002-27003-A03A00-34
	RSP R005 EV002 40240R S4
	BSD004A
	BSP 8003-EV003-A03A0B-34
	PSP P010 EV002 A02A0P S4
	BSP 0010-20003-A02A0D-34
_	BSP BUTU-EVUU3-AU3AUB-54
	BSP B020-EV003-A02A0B-S4
	BSP B020-EV003-A03A0B-54
	BSP002U
	BSP B050-EV003-A02A0B-S4
	BSP003F
	BSP B050-EV003-A03A0B-S4
	BSP002W
	BSP B100-EV003-A02A0B-S4
	BSP003H
	BSP B100-EV003-A03A0B-S4
	BSP002Y
	BSP B250-EV003-A02A0B-S4
	BSP003J
	BSP B250-EV003-A03A0B-S4
	BSP002Z
	BSP B400-EV003-A02A0B-S4
	BSP004C
	BSP B400-EV003-A03A0B-S4
	BSP0030
	BSP B600-EV003-A02A0B-S4
	BSP004E
	BSP B600-EV003-A03A0B-S4
	1836 V DC
	500 mA
	≤ 50 mA
	200 Hz
	$\leq \pm 0.5$ % FSO BFSL
	≤ ±0.3 % FSO/10 K
	Yes/yes
	–40+85 °C/–40+125 °C
	7 segment display/LED
	IP 67 (when connected)
	Stainless steel
	Ceramic
	Fluoroelastomer
	M12 connector, 4-pin

G 1/4"

Sensors

High-End

Sensors

Fluoroelastomer M12 connector, 4-pin

G 1/4"









Description	Adapter G 1/4"	Adapter NPT 1/4"	Adapter G 1/4"
Version			for attachment to pressure gauge
Ordering code	BAM01KP	BAM01KT	BAM01KR
Part number	BAM AD-SP-008-1G4/1G4-4	BAM AD-SP-008-1G4/1N4-4	BAM AD-SP-008-1G4/1G4-4-EN837
Housing material	Stainless steel	Stainless steel	Stainless steel
Sensor end connection	G 1/4"	G 1/4"	G 1/4"
Process end connection	G 1/4"	NPT 1/4"	G 1/4" for attachment to
			pressure gauge as per EN 837



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Balluff BSP pressure sensors can be adapted to different process connections using adapters available as an optional extra.

Adapters for other process connections are available on request.



18 **BALLUFF**





Connection cable for

Straight female

standard pressure sensors

PIN 1: brown

PIN 2: white PIN 3: blue

PIN 4: black



Connection cable for standard pressure sensors Right-angle female





250 V DC Molded 4×0.34 mm² IP 68 -25...+80 °C -5...+80 °C









32 V AC/DC

Assembled

4×0.34 mm²

IP 68/IP 69K





-40...+85 °C (momentarily +105 °C)



Ф

Max. operating voltage Uo 250 V DC Cable Molded No. of wires × conductor cross-section 4×0.34 mm² IP 68 Degree of protection per IEC 60529 PUR Ambient –25...+80 °C temperature T_a PVC -5...+80 °C

Connector diagram and wiring

Version

Туре

Cable	Color	Length			
	Plack	0 m			
FUN	DIACK	2 111			
PUR	Black	5 m			
PUR	Black	10 m			
PVC	Gray	2 m			
PVC	Gray	5 m			
PVC	Gray	10 m			

gth	Ordering code		
	Part number		
	BCC032F	BCC032Y	
	BCC M415-0000-1A-003-PX0434-020	BCC M425-0000-1A-003-PX0434-020	
	BCC032H	BCC032Z	
	BCC M415-0000-1A-003-PX0434-050	BCC M425-0000-1A-003-PX0434-050	
n	BCC032J	BCC0330	
	BCC M415-0000-1A-003-PX0434-100	BCC M425-0000-1A-003-PX0434-100	
	BCC0367	BCC036N	BCC02FE
	BCC M415-0000-1A-003-VX8434-020	BCC M425-0000-1A-003-VX8434-020	BKS-S260-3-02
	BCC0368	BCC036P	BCC02FF
	BCC M415-0000-1A-003-VX8434-050	BCC M425-0000-1A-003-VX8434-050	BKS-S260-3-05
n	BCC0369	BCC036R	
	BCC M415-0000-1A-003-VX8434-100	BCC M425-0000-1A-003-VX8434-100	

Other cable materials, colors and lengths on request.









More about our cables and connectivity products can be found in our brochures or online at: www.balluff.com



Alphanumerical Directory

Sorted by Part number

Part number	Ordering code	Page	Part number	Ordering code	Page
BAM AD-SP-008-1G4/1G4-4	BAM01KP	18	BSP B050-EV003-D01A0B-S4	BSP0033	17
BAM AD-SP-008-1G4/1G4-4-EN837	BAM01KR	18	BSP B100-EV002-A00A0B-S4	BSP0010	15
BAM AD-SP-008-1G4/1N4-4	BAM01KT	18	BSP B100-EV002-A01A0B-S4	BSP001R	15
BCC M415-0000-1A-003-PX0434-020	BCC032F	19	BSP B100-EV002-A02A0B-S4	BSP0019	15
BCC M415-0000-1A-003-PX0434-050	BCC032H	19	BSP B100-EV002-A03A0B-S4	BSP001Z	15
BCC M415-0000-1A-003-PX0434-100	BCC032J	19	BSP B100-EV002-D00A0B-S4	BSP000M	15
BCC M415-0000-1A-003-VX8434-020	BCC0367	19	BSP B100-EV002-D01A0B-S4	BSP001K	15
BCC M415-0000-1A-003-VX8434-050	BCC0368	19	BSP B100-EV003-A00A0B-S4	BSP002J	17
BCC M415-0000-1A-003-VX8434-100	BCC0369	19	BSP B100-EV003-A01A0B-S4	BSP0039	1/
BCC M425-0000-1A-003-PX0434-020	BCC032Y	19	BSP B100-EV003-A02A0B-S4	BSP002W	17
BCC M425-0000-TA-003-PX0434-050	BCC032Z	19	BSP B100-EV003-A03A0B-S4	BSP003H	17
BCC M425-0000-TA-003-PX0434-T00	BCC0330	19	BSP B100-EV003-D00A0B-54	BSP0020	17
BCC M425-0000-1A-003-VX8434-020	BCC036N	19	BSP B100-EV003-D01A0B-S4	BSP0034	16
BCC M425-0000-1A-003-VX8434-050	BCC036P	19	BSP B250-EV002-A00A0B-54	BSPUUII	15
BCC 101423-0000-1A-003-078434-100	BCC030R	10	DSF D250-EV002-A01A0D-34	BSP0011	15
BKS-S260-3-05	BCC02FE	10	BSP B250-EV002-A0340B-S4	BSP001A	15
BSP B002-EV002-40040B-S4	BSD000T	15	BSP B250-EV002-D0040B-S4	BSP000N	15
BSP B002-EV002-A0140B-S4	BSP003P	15	BSP B250-EV002-D00A0B-S4	BSP001I	15
BSP B002-EV002-A02A0B-S4	BSP0014	15	BSP B250-EV003-A00A0B-S4	BSP002K	17
BSP B002-EV002-A03A0B-S4	BSP003W	15	BSP B250-EV003-A01A0B-S4	BSP003A	17
BSP B002-EV002-D00A0B-S4	BSP000F	15	BSP B250-EV003-A02A0B-S4	BSP002Y	17
BSP B002-EV002-D01A0B-S4	BSP003K	15	BSP B250-EV003-A03A0B-S4	BSP003J	17
BSP B002-EV003-A00A0B-S4	BSP002A	17	BSP B250-EV003-D00A0B-S4	BSP0027	17
BSP B002-EV003-A01A0B-S4	BSP0045	17	BSP B250-EV003-D01A0B-S4	BSP0035	17
BSP B002-EV003-A02A0B-S4	BSP002N	17	BSP B400-EV002-A00A0B-S4	BSP0012	15
BSP B002-EV003-A03A0B-S4	BSP0049	17	BSP B400-EV002-A01A0B-S4	BSP003T	15
BSP B002-EV003-D00A0B-S4	BSP0021	17	BSP B400-EV002-A02A0B-S4	BSP001C	15
BSP B002-EV003-D01A0B-S4	BSP0041	17	BSP B400-EV002-A03A0B-S4	BSP003Z	15
BSP B005-EV002-A00A0B-S4	BSP000U	15	BSP B400-EV002-D00A0B-S4	BSP000P	15
BSP B005-EV002-A01A0B-S4	BSP003R	15	BSP B400-EV002-D01A0B-S4	BSP003M	15
BSP B005-EV002-A02A0B-S4	BSP0015	15	BSP B400-EV003-A00A0B-S4	BSP002L	17
BSP B005-EV002-A03A0B-S4	BSP003Y	15	BSP B400-EV003-A01A0B-S4	BSP0047	17
BSP B005-EV002-D00A0B-S4	BSP000H	15	BSP B400-EV003-A02A0B-S4	BSP002Z	17
BSP B005-EV002-D01A0B-S4	BSP003L	15	BSP B400-EV003-A03A0B-S4	BSP004C	17
BSP B005-EV003-A00A0B-S4	BSP002C	17	BSP B400-EV003-D00A0B-S4	BSP0028	17
BSP B005-EV003-A01A0B-S4	BSP0046	17	BSP B400-EV003-D01A0B-S4	BSP0043	1/
BSP B005-EV003-A02A0B-S4	BSP002P	1/	BSP B600-EV002-A00A0B-S4	BSP0013	15
BSP B005-EV003-A03A0B-S4	BSP004A	1/	BSP B600-EV002-A01A0B-S4	BSP0030	15
BSP B005-EV003-D00A0B-S4	BSP0022	17	BSP B600-EV002-A02A0B-S4	BSPUUIE	15
BSP B005-EV003-D01A0B-S4	BSP0042	16	BSP B000-EV002-AU3AUB-54	BSP0040	15
DSP DUTU-EVUUZ-AUUAUD-34	BSP000W	10	DSP 0000-EV002-D00A0D-34	BSPUUUR	15
BSF B010-EV002-A01A0B-34	BSP0016	15	BSP B600 EV002-D01A0B-34	BSP003N	17
BSF B010-EV002-A02A0B-34 BSP B010-EV002-A03A0B-S4	BSP0010	15	BSP B600-EV003-A01A0B-S4	BSP002W	17
BSP B010-EV002-D0040B-S4	BSP000.I	15	BSP B600-EV003-A02A0B-S4	BSP0030	17
BSP B010-EV002-D01A0B-S4	BSP001F	15	BSP B600-EV003-A03A0B-S4	BSP004E	17
BSP B010-EV003-A00A0B-S4	BSP002E	17	BSP B600-EV003-D00A0B-S4	BSP0029	17
BSP B010-EV003-A01A0B-S4	BSP0036	17	BSP B600-EV003-D01A0B-S4	BSP0044	17
BSP B010-EV003-A02A0B-S4	BSP002R	17	BSP V002-EV002-A00A0B-S4	BSP004J	15
BSP B010-EV003-A03A0B-S4	BSP003C	17	BSP V002-EV002-A01A0B-S4	BSP004R	15
BSP B010-EV003-D00A0B-S4	BSP0023	17	BSP V002-EV002-A02A0B-S4	BSP004L	15
BSP B010-EV003-D01A0B-S4	BSP0031	17	BSP V002-EV002-A03A0B-S4	BSP004U	15
BSP B020-EV002-A00A0B-S4	BSP000Y	15	BSP V002-EV002-D00A0B-S4	BSP004F	15
BSP B020-EV002-A01A0B-S4	BSP001N	15	BSP V002-EV002-D01A0B-S4	BSP004N	15
BSP B020-EV002-A02A0B-S4	BSP0017	15	BSP V002-EV003-A00A0B-S4	BSP0050	17
BSP B020-EV002-A03A0B-S4	BSP001W	15	BSP V002-EV003-A01A0B-S4	BSP0056	17
BSP B020-EV002-D00A0B-S4	BSP000K	15	BSP V002-EV003-A02A0B-S4	BSP0052	17
BSP B020-EV002-D01A0B-S4	BSP001H	15	BSP V002-EV003-A03A0B-S4	BSP0058	17
BSP B020-EV003-A00A0B-S4	BSP002F	17	BSP V002-EV003-D00A0B-S4	BSP004Y	17
BSP B020-EV003-A01A0B-S4	BSP0037	17	BSP V002-EV003-D01A0B-S4	BSP0054	1/
BSP B020-EV003-A02A0B-S4	BSP002T	1/	BSP V010-EV002-A00A0B-S4	BSP004K	15
BSF BUZU-EVUUJ-AUJAUB-54 RSD R020 EV002 D0040B 54	BSP003E	17	BSF VUIU-EVUUZ-AUTAUB-54 RSD V010 EV002 A02A0B 64	BSD004M	15
BSF BU2U-EVUUS-DUUAUB-54 RSD R020 EV002 D0140D 54	BSP0024	17		BSP004W	15
	BSF0032	15	BSF VUTU-EVUUZ-AUSAUB-54 BSP V010-EV002-D0040B-S4	BSP004W	15
BSP B050-EV002-A0140R-S4	BSP001P	15	BSP V010-FV002-D00A0B-34 BSP V010-FV002-D01Δ0R-S4	BSP004P	15
BSP B050-EV002-A02A0B-S4	BSP0018	15	BSP V010-EV003-A00A0B-S4	BSP0051	17
BSP B050-EV002-A03A0B-S4	BSP001Y	15	BSP V010-EV003-A01A0B-S4	BSP0057	17
BSP B050-EV002-D00A0B-S4	BSP000L	15	BSP V010-EV003-A02A0B-S4	BSP0053	17
BSP B050-EV002-D01A0B-S4	BSP001J	15	BSP V010-EV003-A03A0B-S4	BSP0059	17
BSP B050-EV003-A00A0B-S4	BSP002H	17	BSP V010-EV003-D00A0B-S4	BSP004Z	17
BSP B050-EV003-A01A0B-S4	BSP0038	17	BSP V010-EV003-D01A0B-S4	BSP0055	17
BSP B050-EV003-A02A0B-S4	BSP002U	17			
BSP B050-EV003-A03A0B-S4	BSP003F	17			
BSP B050-EV003-D00A0B-S4	BSP0025	17			

Alphanumerical Directory

A Sorted by ordering code

Ordering code	Part number	Page	Ordering code	Part number	Page
BAM01KP	BAM AD-SP-008-1G4/1G4-4	18	BSP002M	BSP B600-EV003-A00A0B-S4	17
BAMOIKR	BAM AD SP-008-1G4/1G4-4-EN837	18	BSP002N BSD002D	BSP B002-EV003-A02A0B-S4	17
BCC02EE	BANI AD-SP-000-1G4/1114-4	10	BSP002P	BSP B003-EV003-A02A0B-54	17
BCC02FE	BKS-S260-3-02	19	BSP002R	BSP B020-EV003-A02A0B-S4	17
BCC032F	BCC M415-0000-1A-003-PX0434-020	19	BSP002U	BSP B050-EV003-A02A0B-S4	17
BCC032H	BCC M415-0000-1A-003-PX0434-050	19	BSP002W	BSP B100-EV003-A02A0B-S4	17
BCC032J	BCC M415-0000-1A-003-PX0434-100	19	BSP002Y	BSP B250-EV003-A02A0B-S4	17
BCC032Y	BCC M425-0000-1A-003-PX0434-020	19	BSP002Z	BSP B400-EV003-A02A0B-S4	17
BCC032Z	BCC M425-0000-1A-003-PX0434-050	19	BSP0030	BSP B600-EV003-A02A0B-S4	17
BCC0330	BCC M425-0000-1A-003-PX0434-100	19	BSP0031	BSP B010-EV003-D01A0B-S4	17
BCC0367	BCC M415-0000-1A-003-VX8434-020	19	BSP0032	BSP B020-EV003-D01A0B-S4	1/
BCC0368	BCC M415-0000-1A-003-VX8434-050	19	BSP0033	BSP B050-EV003-D01A0B-S4	17
BCC036N	BCC M425-0000-1A-003-VX8434-100	19	BSP0034 BSP0035	BSP B100-EV003-D01A0B-34 BSP B250-EV003-D01A0B-S4	17
BCC036P	BCC M425-0000-1A-003-VX8434-050	19	BSP0036	BSP B010-EV003-A01A0B-S4	17
BCC036R	BCC M425-0000-1A-003-VX8434-100	19	BSP0037	BSP B020-EV003-A01A0B-S4	17
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BSP001H	BSP B020-EV002-D01A0B-S4	15	BSP0049	BSP B002-EV003-A03A0B-S4	17
BSP001J	BSP B050-EV002-D01A0B-S4	15	BSP004A	BSP B005-EV003-A03A0B-S4	17
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BSP001P	BSP B050-EV002-A01A0B-S4	15	BSP0041	BSP V002-EV002-D00A0B-S4	15
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BSP002F	BSP B020-EV003-A00A0B-S4	17	BSP0058	BSP V002-EV003-A03A0B-S4	17
BSP002H	BSP B050-EV003-A00A0B-S4	17	BSP0059	BSP V010-EV003-A03A0B-S4	17
BSP002J	BSP B100-EV003-A00A0B-S4	17			
BSP002K	BSP B250-EV003-A00A0B-S4	17			
DSP002L	DOF D400-EV003-A00A0B-54	17			

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Object Detection

Inductive sensors BES, cylinder sensors BMF, magnetic field sensors BMF, capacitive sensors BCS for object detection, ultrasonic sensors BUS for object detection, photoelectric sensors BOS, fiber optic devices BFB, fiber optics BFO, angle sensors BWL, through-beam fork sensors BGL, optical window sensors BOW, light grids BLG, contrast sensors BKT, luminescence sensors BLT, color sensors BFS, mechanical and inductive single and multiple position switches BNS



Linear Position Sensing

Micropulse® transducers BTL, magnetic linear encoder system BML, incremental encoders BDG, absolute encoders BRG, inductive displacement system BIW, inductive positioning system BIP, inductive distance sensors BAW, magnetoinductive distance sensors BIL, capacitive distance sensors BCW, photoelectric distance sensors BOD, ultrasonic sensors BUS for analog distance measurement



Fluid Sensors

Pressure sensors BSP, capacitive sensors BCS for level detection



Industrial Identification

Industrial RFID systems BIS, vision sensors BVS



Industrial Networking and Connectivity

Connectors and connection cables BCC, valve connectors BCC, passive splitter boxes BPI, active splitter boxes BNI, IO-Link, bus systems (Profibus, Profinet, CC-Link, DeviceNet, EtherNet), inductive couplers BIC, wireless systems BWT, power supplies BAE, electrical devices BAE



Accessories

Brackets and mountings, assembly system BMS

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