

# BALLUFF

sensors worldwide



## BSP Pressure Sensors

Reliable solutions for the automation industry



more added value



## 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, quality 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.**



**more added value**

- The right product selection for your application
- Outstanding price/performance ratio
- 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-to-date information on the current system pressure.

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## **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.

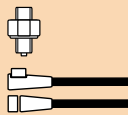




# BSP Pressure Sensors

Reliable Solutions for the Automation Industry

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- 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

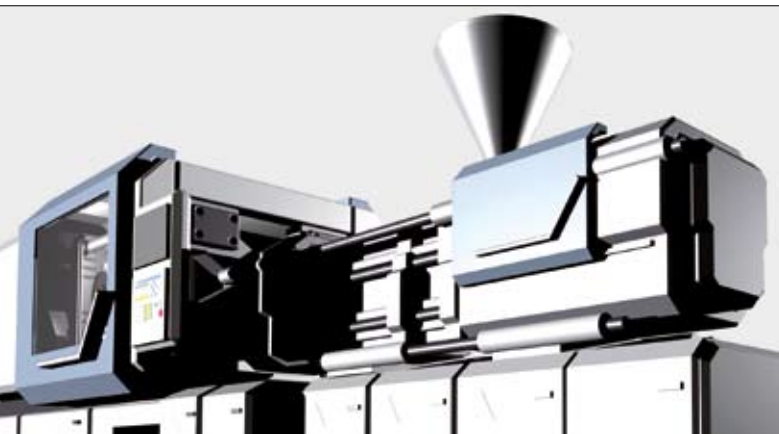


Type	Standard	High-End
From page	14	16
<b>Housing material</b>		
Plastic	■	
Stainless steel		■
<b>Special properties</b>		
Standard temperature range –25...+85 °C	■	■
Increased temperature range –40...+85 °C		■
Display housing rotates 320°	■	■
Connection housing with M12 plug rotates 320°	■	■
<b>Application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

# 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.



### Benefits

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

## 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.



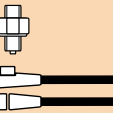
### Benefits

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

# BSP Pressure Sensors

## Applications

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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

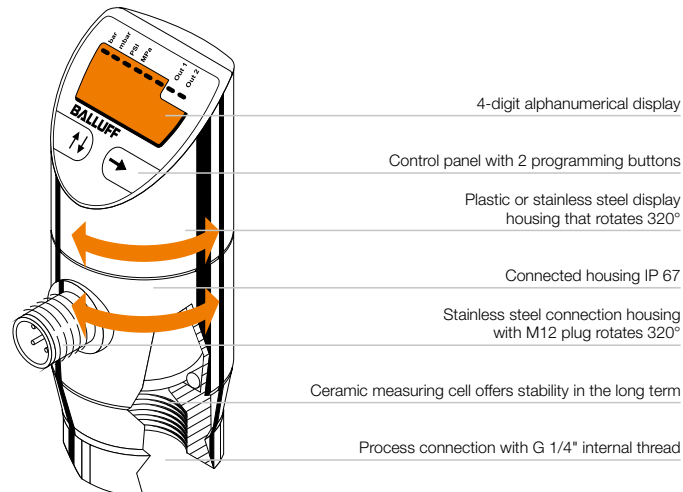


### Benefits

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

# Basic Information and Definitions

## Sensor design



## 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.

## Pressure characteristics

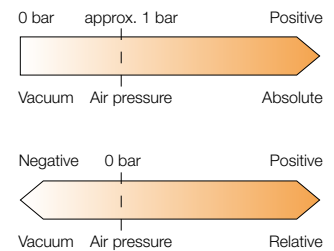
**Absolute pressure:** the absolute pressure is the pressure in relation to zero pressure (vacuum). The value range of absolute pressure is always positive.

**Relative pressure:** pressure is usually measured in relation to the 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 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.

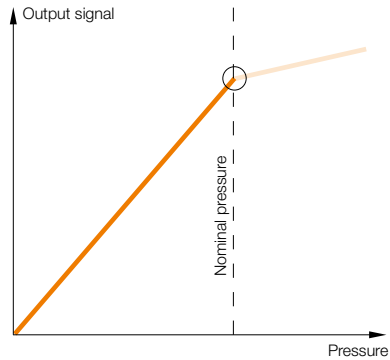
**Compressible material:** typical compressible materials include gases, which decrease in volume when their pressure increases.

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



## Characteristic

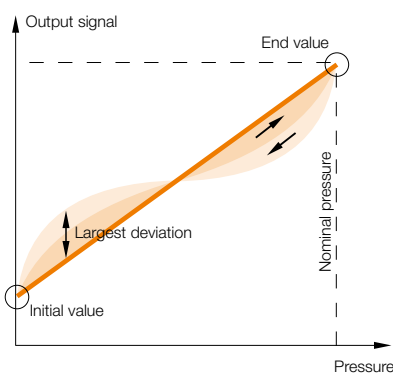
Describes the relationship between the measured and output variable. On pressure sensors, the characteristic indicates how dependent the output signal is on the pressure. In an ideal scenario, the characteristic should be a straight line.



## Accuracy

The accuracy indicates how much the actual characteristic can deviate from the ideal characteristic (according to IEC 60770 non-linearity, Hysteresis and repeatability). 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.

## Repeatability

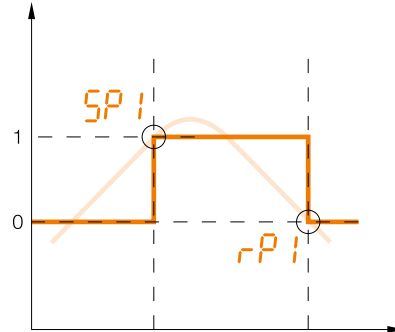
Repeat accuracy of two measurements under standardized conditions.

# Basic Information and Definitions

## 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.

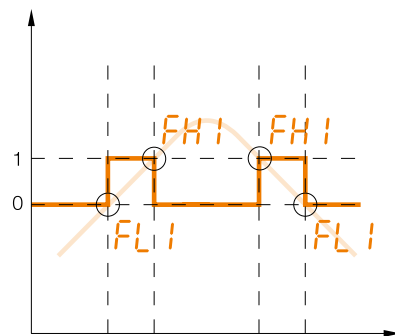
**Hysteresis function:** the hysteresis keeps the switching status of the outputs stable, even if the system pressure fluctuates either side the setpoint value. The output is activated when the system pressure rises and the relevant switching point (SP) is reached. The output is deactivated when the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



## Window, adjustable

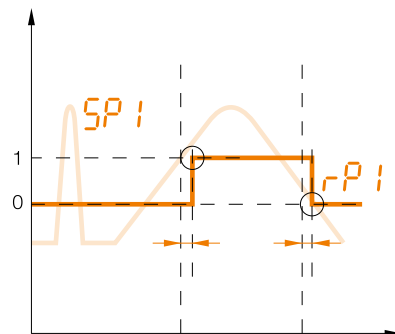
The output function is activated when the measured value falls between the preset switching and return point.

**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

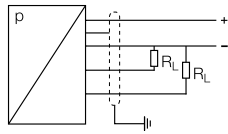
Delay times can reliably filter out undesired pressure peaks that occur momentarily. The status of the switching output does not change immediately after the switching event occurs, but only once a preselected delay time of 0...50 s has elapsed. If the switching event no longer exists by the time the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



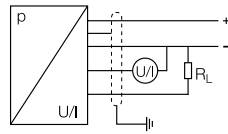


## Switching function

4-wire pressure sensors with switching output



4-wire pressure sensors with analog output



## Pin assignments

Electrical 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

## Operating voltage $U_B$

is the voltage range in which flawless functioning of the sensor is assured. It includes all voltage tolerances and 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 of the sensor with a maximum operating voltage  $U_O$  and with no connected 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 range $T_a$

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

## Temperature drift

When changes in the ambient temperature range cause the switching point to shift.

## Switching frequency $f$ max.

is a succession of periodically repeated sensor switching cycles that occur during one second.

# Basic Information and Definitions

## Materials

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

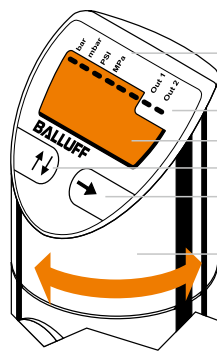
### First digit:

- 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 piece of equipment concerned
- 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 indicator

Luminous, 4-digit, 7-segment display

Change menus and adjust parameters

Display parameters

Plastic or stainless steel display housing that rotates 320°

Description	ASCII	Description	ASCII
SP:1	SP1	Hn:0	NO with hysteresis function
rP:1	RP1	Fno:0	NO with window function
SP:2	SP2	Hnc:0	NC with hysteresis function
rP:2	RP2	Fnc:0	NC with window function
FH:1	FH1	Uni:0	Unit selection
FL:1	FL1	bar:0	Unit bar
FH:2	FH2	MPa:0	Unit MPa
FL:2	FL2	Pa:0	Unit Pa
EF:0	EF	psi:0	Unit psi
rES:0	RES	Lo:0	Min. value
dS:1	dS1	Hi:0	Max. value
dS:2	dS2	di:R	Diagnostic function
dr:1	dr1	Err:0	Error indicator
dr:2	dr2	di:S	Display
ou:1	Ou1	PE:0	Yes
ou:2	Ou2	no:0	No



## Setting and adjusting parameters

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

**Display parameters** – 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 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.



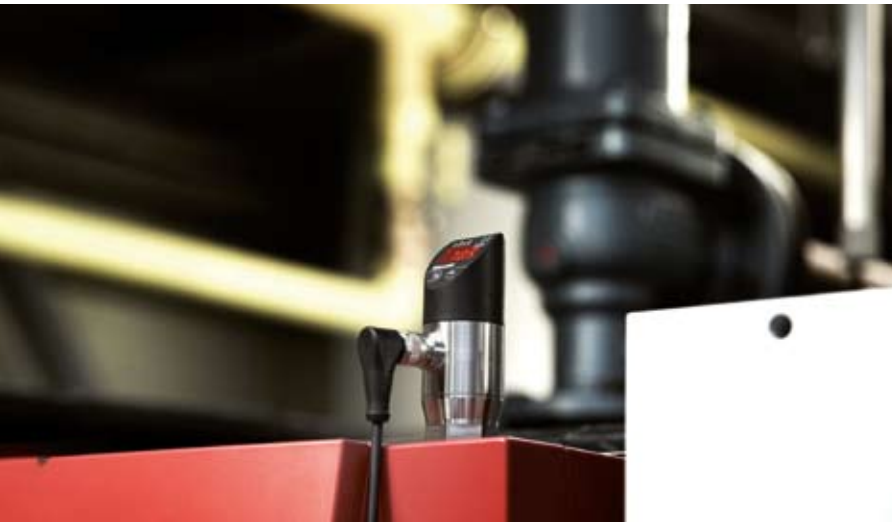
- On delay for SP 1 and SP 2
- Return point delay for RP 1 and RP 2
- Switching function for Out 1 and Out 2
- NO
- NC
- Window function
- Hysteresis function
- Unit selection
- Min./max. value

# BSP Pressure Sensors

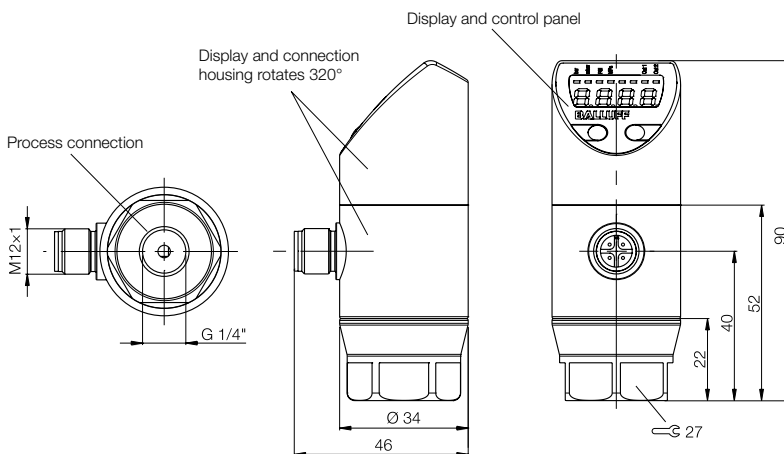
## Standard Sensors

**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 be 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.



Design	Relative nominal pressure	Overload pressure	Cracking pressure $\geq$	Permitted vacuum
Pressure sensors -1...2 bar	2 bar	4 bar	10 bar	vacuum proof
Pressure sensors -1...10 bar	10 bar	20 bar	35 bar	
Pressure sensors 0...2 bar	2 bar	4 bar	10 bar	
Pressure sensors 0...5 bar	5 bar	10 bar	15 bar	
Pressure sensors 0...10 bar	10 bar	20 bar	35 bar	
Pressure sensors 0...20 bar	20 bar	40 bar	75 bar	
Pressure sensors 0...50 bar	50 bar	100 bar	150 bar	
Pressure sensors 0...100 bar	100 bar	200 bar	250 bar	
Pressure sensors 0...250 bar	250 bar	400 bar	450 bar	
Pressure sensors 0...400 bar	400 bar	650 bar	700 bar	
Pressure sensors 0...600 bar	600 bar	750 bar	800 bar	

<b>-1...2 bar</b> <b>-14.5...29 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>-1...10 bar</b> <b>-14.5...145 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...2 bar</b> <b>0...29 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...5 bar</b> <b>0...73 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...10 bar</b> <b>0...145 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...20 bar</b> <b>0...290 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...50 bar</b> <b>0...725 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...100 bar</b> <b>0...1450 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...250 bar</b> <b>0...3626 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...400 bar</b> <b>0...5802 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...600 bar</b> <b>0...8702 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	

Operating voltage  $U_B$   
 Output current max.  
 No-load supply current  $I_0$  max.  
 Switching frequency  $f$  max.  
 Accuracy

Temperature error  
 Reverse polarity/short-circuit protected  
 Ambient/material temperature  
 Display/function indicators  
 Degree of protection per IEC 60529

Material  
 Housing  
 Measuring cell  
 Seal

Connection  
 Connectors  
 Process connection

# BSP Pressure Sensors

## Standard sensors



2 programmable switching points (NO or NC)



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



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

<b>BSP004F</b> BSP V002-EV002-D00A0B-S4	<b>BSP004J</b> BSP V002-EV002-D00A0B-S4	<b>BSP004L</b> BSP V002-EV002-D00A0B-S4
<b>BSP004N</b> BSP V002-EV002-D01A0B-S4	<b>BSP004R</b> BSP V002-EV002-D00A0B-S4	<b>BSP004U</b> BSP V002-EV002-D00A0B-S4
<b>BSP004H</b> BSP V010-EV002-D00A0B-S4	<b>BSP004K</b> BSP V002-EV002-D00A0B-S4	<b>BSP004M</b> BSP V002-EV002-D00A0B-S4
<b>BSP004P</b> BSP V010-EV002-D01A0B-S4	<b>BSP004T</b> BSP V002-EV002-D00A0B-S4	<b>BSP004W</b> BSP V002-EV002-D00A0B-S4
<b>BSP000F</b> BSP B002-EV002-D00A0B-S4	<b>BSP004T</b> BSP B002-EV002-D00A0B-S4	<b>BSP0014</b> BSP B002-EV002-D00A0B-S4
<b>BSP003K</b> BSP B002-EV002-D01A0B-S4	<b>BSP004P</b> BSP B002-EV002-A01A0B-S4	<b>BSP004W</b> BSP B002-EV002-D00A0B-S4
<b>BSP000H</b> BSP B005-EV002-D00A0B-S4	<b>BSP004U</b> BSP B005-EV002-D00A0B-S4	<b>BSP0015</b> BSP B002-EV002-D00A0B-S4
<b>BSP003L</b> BSP B005-EV002-D01A0B-S4	<b>BSP004R</b> BSP B002-EV002-D00A0B-S4	<b>BSP003Y</b> BSP B002-EV002-D00A0B-S4
<b>BSP000J</b> BSP B010-EV002-D00A0B-S4	<b>BSP004W</b> BSP B002-EV002-D00A0B-S4	<b>BSP0016</b> BSP B002-EV002-D00A0B-S4
<b>BSP001F</b> BSP B010-EV002-D01A0B-S4	<b>BSP004M</b> BSP B002-EV002-D00A0B-S4	<b>BSP004U</b> BSP B002-EV002-D00A0B-S4
<b>BSP000K</b> BSP B020-EV002-D00A0B-S4	<b>BSP003Y</b> BSP B002-EV002-D00A0B-S4	<b>BSP0017</b> BSP B020-EV002-D00A0B-S4
<b>BSP001H</b> BSP B020-EV002-D01A0B-S4	<b>BSP004N</b> BSP B002-EV002-D00A0B-S4	<b>BSP004W</b> BSP B020-EV002-A03A0B-S4
<b>BSP000L</b> BSP B050-EV002-D00A0B-S4	<b>BSP000Z</b> BSP B050-EV002-A00A0B-S4	<b>BSP0018</b> BSP B050-EV002-A02A0B-S4
<b>BSP001J</b> BSP B050-EV002-D01A0B-S4	<b>BSP004P</b> BSP B050-EV002-A01A0B-S4	<b>BSP003Y</b> BSP B002-EV002-D00A0B-S4
<b>BSP000M</b> BSP B100-EV002-D00A0B-S4	<b>BSP0010</b> BSP B002-EV002-D00A0B-S4	<b>BSP0019</b> BSP B100-EV002-D00A0B-S4
<b>BSP001K</b> BSP B100-EV002-D01A0B-S4	<b>BSP004R</b> BSP B002-EV002-D00A0B-S4	<b>BSP000Z</b> BSP B100-EV002-A03A0B-S4
<b>BSP000N</b> BSP B250-EV002-D00A0B-S4	<b>BSP0011</b> BSP B002-EV002-D00A0B-S4	<b>BSP001A</b> BSP B002-EV002-D00A0B-S4
<b>BSP001L</b> BSP B250-EV002-D01A0B-S4	<b>BSP004T</b> BSP B002-EV002-D00A0B-S4	<b>BSP0020</b> BSP B002-EV002-D00A0B-S4
<b>BSP000P</b> BSP B400-EV002-D00A0B-S4	<b>BSP0012</b> BSP B002-EV002-D00A0B-S4	<b>BSP001C</b> BSP B002-EV002-D00A0B-S4
<b>BSP003M</b> BSP B400-EV002-D01A0B-S4	<b>BSP004T</b> BSP B002-EV002-D00A0B-S4	<b>BSP000Z</b> BSP B002-EV002-D00A0B-S4
<b>BSP000R</b> BSP B600-EV002-D00A0B-S4	<b>BSP0013</b> BSP B600-EV002-D00A0B-S4	<b>BSP001E</b> BSP B002-EV002-D00A0B-S4
<b>BSP003N</b> BSP B600-EV002-D01A0B-S4	<b>BSP004U</b> BSP B600-EV002-A01A0B-S4	<b>BSP0040</b> BSP B600-EV002-A03A0B-S4
18...36 V DC	18...36 V DC	18...36 V DC
500 mA	500 mA	500 mA
≤ 50 mA	≤ 50 mA	≤ 50 mA
200 Hz	200 Hz	200 Hz
± 0.5 % FSO BFSL	± 0.5 % FSO BFSL	± 0.5 % FSO BFSL
± 0.3 % FSO/10 K <sub>typ.</sub>	± 0.3 % FSO/10 K <sub>typ.</sub>	± 0.3 % FSO/10 K <sub>typ.</sub>
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 connected)	IP 67 (when connected)	IP 67 (when connected)
PA 6.6, stainless steel	PA 6.6, stainless steel	PA 6.6, stainless steel
Ceramic	Ceramic	Ceramic
Fluoroelastomer	Fluoroelastomer	Fluoroelastomer
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin
G 1/4"	G 1/4"	G 1/4"



Standard  
Sensors  
High-End  
Sensors

# BSP Pressure Sensors

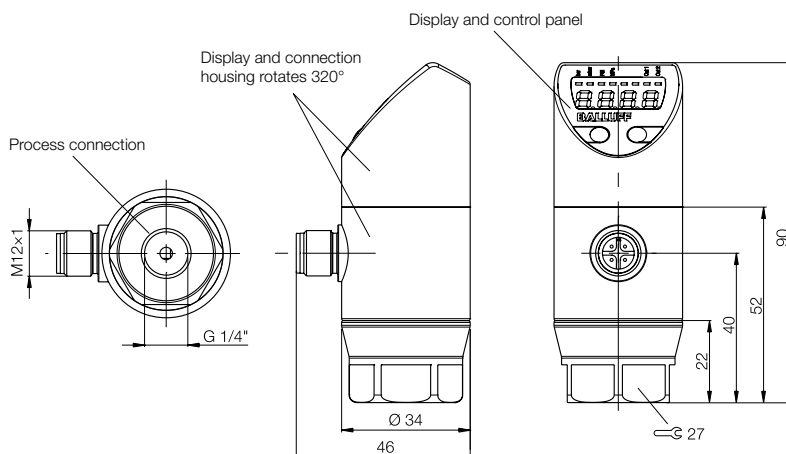
## High-End Sensors

**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.



Design	Relative nominal pressure	Overload pressure	Cracking pressure $\geq$	Permitted vacuum
Pressure sensors -1...2 bar	2 bar	4 bar	10 bar	vacuum proof
Pressure sensors -1...10 bar	10 bar	20 bar	35 bar	
Pressure sensors 0...2 bar	2 bar	4 bar	10 bar	
Pressure sensors 0...5 bar	5 bar	10 bar	15 bar	
Pressure sensors 0...10 bar	10 bar	20 bar	35 bar	
Pressure sensors 0...20 bar	20 bar	40 bar	75 bar	
Pressure sensors 0...50 bar	50 bar	100 bar	150 bar	
Pressure sensors 0...100 bar	100 bar	200 bar	250 bar	
Pressure sensors 0...250 bar	250 bar	400 bar	450 bar	
Pressure sensors 0...400 bar	400 bar	650 bar	700 bar	
Pressure sensors 0...600 bar	600 bar	750 bar	800 bar	

<b>-1...2 bar</b> <b>-14.5...29 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>-1...10 bar</b> <b>-14.5...145 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...2 bar</b> <b>0...29 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...5 bar</b> <b>0...73 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...10 bar</b> <b>0...145 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...20 bar</b> <b>0...290 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...50 bar</b> <b>0...725 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...100 bar</b> <b>0...1450 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...250 bar</b> <b>0...3626 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...400 bar</b> <b>0...5802 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	
<b>0...600 bar</b> <b>0...8702 psi</b>	PNP	<b>Ordering code</b>	
		Part number	
	NPN	<b>Ordering code</b>	
		Part number	

Operating voltage  $U_B$   
 Output current max.  
 No-load supply current  $I_0$  max.  
 Switching frequency  $f$  max.  
 Accuracy

Temperature error  
 Reverse polarity/short-circuit protected  
 Ambient/material temperature  
 Display/function indicators  
 Degree of protection per IEC 60529  
 Material  
 Housing  
 Measuring cell  
 Seal  
 Connection  
 Connectors  
 Process connection

# BSP Pressure Sensors

## High-End Sensors



2 programmable switching points (NO or NC)



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



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

<b>BSP004Y</b> BSP V002-EV003-D00A0B-S4	<b>BSP0050</b> BSP V002-EV002-D00A0B-S4	<b>BSP0052</b> BSP V002-EV002-D00A0B-S4
<b>BSP0054</b> BSP V002-EV003-D01A0B-S4	<b>BSP0056</b> BSP V002-EV002-D00A0B-S4	<b>BSP0058</b> BSP V002-EV002-D00A0B-S4
<b>BSP004Z</b> BSP V010-EV003-D00A0B-S4	<b>BSP0051</b> BSP V002-EV002-D00A0B-S4	<b>BSP0053</b> BSP V002-EV002-D00A0B-S4
<b>BSP0055</b> BSP V010-EV003-D01A0B-S4	<b>BSP0057</b> BSP V002-EV002-D00A0B-S4	<b>BSP0059</b> BSP V002-EV002-D00A0B-S4
<b>BSP0021</b> BSP B002-EV003-D00A0B-S4	<b>BSP002A</b> BSP B002-EV002-D00A0B-S4	<b>BSP003N</b> BSP B002-EV002-D00A0B-S4
<b>BSP0041</b> BSP B002-EV003-D01A0B-S4	<b>BSP0045</b> BSP B002-EV002-D00A0B-S4	<b>BSP0049</b> BSP B002-EV002-D00A0B-S4
<b>BSP0022</b> BSP B005-EV003-D00A0B-S4	<b>BSP002C</b> BSP B002-EV002-D00A0B-S4	<b>BSP002P</b> BSP B002-EV002-D00A0B-S4
<b>BSP0042</b> BSP B005-EV003-D01A0B-S4	<b>BSP0046</b> BSP B002-EV002-D00A0B-S4	<b>BSP004A</b> BSP B002-EV002-D00A0B-S4
<b>BSP0023</b> BSP B010-EV003-D00A0B-S4	<b>BSP002E</b> BSP B002-EV002-D00A0B-S4	<b>BSP000R</b> BSP B002-EV002-D00A0B-S4
<b>BSP0031</b> BSP B010-EV003-D01A0B-S4	<b>BSP0036</b> BSP B002-EV002-D00A0B-S4	<b>BSP003C</b> BSP B002-EV002-D00A0B-S4
<b>BSP0024</b> BSP B020-EV003-D00A0B-S4	<b>BSP002F</b> BSP B002-EV002-D00A0B-S4	<b>BSP004T</b> BSP B002-EV002-D00A0B-S4
<b>BSP0032</b> BSP B020-EV003-D01A0B-S4	<b>BSP0037</b> BSP B002-EV002-D00A0B-S4	<b>BSP003E</b> BSP B002-EV002-D00A0B-S4
<b>BSP0025</b> BSP B050-EV003-D00A0B-S4	<b>BSP002H</b> BSP B002-EV002-D00A0B-S4	<b>BSP004U</b> BSP B002-EV002-D00A0B-S4
<b>BSP0033</b> BSP B050-EV003-D01A0B-S4	<b>BSP0038</b> BSP B002-EV002-D00A0B-S4	<b>BSP002F</b> BSP B002-EV002-D00A0B-S4
<b>BSP0026</b> BSP B100-EV003-D00A0B-S4	<b>BSP002J</b> BSP B002-EV002-D00A0B-S4	<b>BSP004W</b> BSP B002-EV002-D00A0B-S4
<b>BSP0034</b> BSP B100-EV003-D01A0B-S4	<b>BSP0039</b> BSP B002-EV002-D00A0B-S4	<b>BSP002H</b> BSP B002-EV002-D00A0B-S4
<b>BSP0027</b> BSP B250-EV003-D00A0B-S4	<b>BSP002K</b> BSP B002-EV002-D00A0B-S4	<b>BSP004Y</b> BSP B002-EV002-D00A0B-S4
<b>BSP0035</b> BSP B250-EV003-D01A0B-S4	<b>BSP003A</b> BSP B250-EV002-D00A0B-S4	<b>BSP002J</b> BSP B002-EV002-D00A0B-S4
<b>BSP0028</b> BSP B400-EV003-D00A0B-S4	<b>BSP002L</b> BSP B002-EV002-D00A0B-S4	<b>BSP004Z</b> BSP B002-EV002-D00A0B-S4
<b>BSP0043</b> BSP B400-EV003-D01A0B-S4	<b>BSP0047</b> BSP B002-EV002-D00A0B-S4	<b>BSP004C</b> BSP B400-EV002-D00A0B-S4
<b>BSP0029</b> BSP B600-EV003-D00A0B-S4	<b>BSP002M</b> BSP B002-EV002-D00A0B-S4	<b>BSP0030</b> BSP B002-EV002-D00A0B-S4
<b>BSP0044</b> BSP B600-EV003-D01A0B-S4	<b>BSP0048</b> BSP B002-EV002-D00A0B-S4	<b>BSP004E</b> BSP B002-EV002-D00A0B-S4
18...36 V DC 500 mA ≤ 50 mA 200 Hz ≤ ± 0.5 % FSO BFSL ≤ ± 0.3 % FSO/10 K <sub>typ.</sub> Yes/yes <b>-40...+85 °C/-40...+125 °C</b> 7 segment display/LED IP 67 (when connected) Stainless steel Ceramic Fluoroelastomer M12 connector, 4-pin G 1/4"	18...36 V DC 500 mA ≤ 50 mA 200 Hz ≤ ± 0.5 % FSO BFSL ≤ ± 0.3 % FSO/10 K <sub>typ.</sub> Yes/yes <b>-40...+85 °C/-40...+125 °C</b> 7 segment display/LED IP 67 (when connected) Stainless steel Ceramic Fluoroelastomer M12 connector, 4-pin G 1/4"	18...36 V DC 500 mA ≤ 50 mA 200 Hz ≤ ± 0.5 % FSO BFSL ≤ ± 0.3 % FSO/10 K <sub>typ.</sub> Yes/yes <b>-40...+85 °C/-40...+125 °C</b> 7 segment display/LED IP 67 (when connected) Stainless steel Ceramic Fluoroelastomer M12 connector, 4-pin G 1/4"



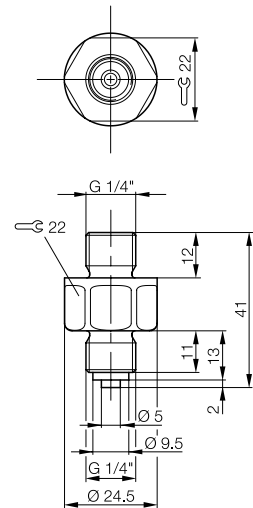
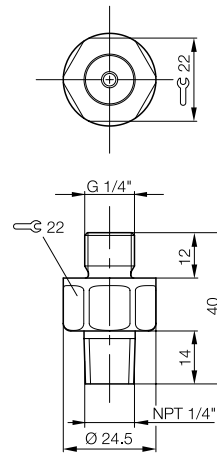
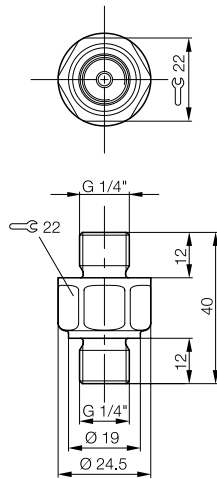
Standard Sensors  
High-End Sensors

# Accessories

## Adapters



Description	Adapter G 1/4"	Adapter NPT 1/4"	Adapter G 1/4"
Version			for attachment to pressure gauge
<b>Ordering code</b>	<b>BAM01KP</b>	<b>BAM01KT</b>	<b>BAM01KR</b>
Part number	BAM AD-SP-008-1G4/1G4-4	BAM AD-SP-008-1G4/1G4-4	BAM AD-SP-008-1G4/1G4-4
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



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.**

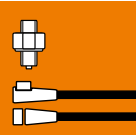
# Accessories

## Connectors



Stainless Steel

ECOLAB

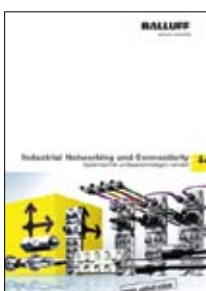
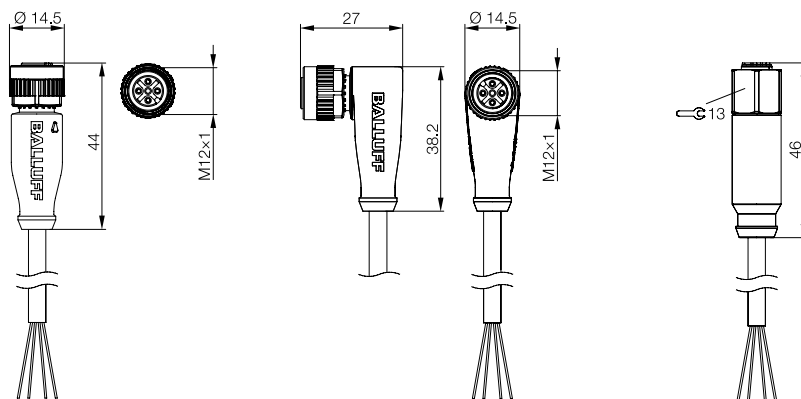


Adapters  
Connectors

Version	Connection cable for standard pressure sensors	Connection cable for standard pressure sensors	Connection cable for high-end pressure sensors
Type	Straight female	Right-angle female	Straight female
Connector diagram and wiring	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>	<p>PIN 1: brown PIN 2: white PIN 3: blue PIN 4: black</p>
Max. operating voltage $U_0$	250 V DC	250 V DC	32 V AC/DC
Cable	Molded	Molded	Assembled
No. of wires × conductor cross-section	4×0.34 mm <sup>2</sup>	4×0.34 mm <sup>2</sup>	4×0.34 mm <sup>2</sup>
Degree of protection per IEC 60529	IP 68	IP 68	IP 68/IP 69K
Ambient temperature $T_a$	PUR: -25...+80 °C PVC: -5...+80 °C	-25...+80 °C -5...+80 °C	-40...+85 °C (momentarily +105 °C)

Cable material	Color	Length	Ordering code	Part number	
PUR	Black	2 m	<b>BCC032F</b>	<b>BCC032Y</b>	
			BCC M415-0000-1A-003-PX0434-020	BCC M425-0000-1A-003-PX0434-020	
PUR	Black	5 m	<b>BCC032H</b>	<b>BCC032Z</b>	
			BCC M415-0000-1A-003-PX0434-050	BCC M425-0000-1A-003-PX0434-050	
PUR	Black	10 m	<b>BCC032J</b>	<b>BCC0330</b>	
			BCC M415-0000-1A-003-PX0434-100	BCC M425-0000-1A-003-PX0434-100	
PVC	Gray	2 m	<b>BCC0367</b>	<b>BCC036N</b>	<b>BCC02FE</b>
			BCC M415-0000-1A-003-VX8434-020	BCC M425-0000-1A-003-VX8434-020	BKS-S260-3-02
PVC	Gray	5 m	<b>BCC0368</b>	<b>BCC036P</b>	<b>BCC02FF</b>
			BCC M415-0000-1A-003-VX8434-050	BCC M425-0000-1A-003-VX8434-050	BKS-S260-3-05
PVC	Gray	10 m	<b>BCC0369</b>	<b>BCC036R</b>	
			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](http://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	<b>BAM01KP</b>	18	BSP B050-EV003-D01A0B-S4	<b>BSP0033</b>	17
BAM AD-SP-008-1G4/1G4-4	<b>BAM01KR</b>	18	BSP B002-EV002-D00A0B-S4	<b>BSP0010</b>	15
BAM AD-SP-008-1G4/1G4-4	<b>BAM01KT</b>	18	BSP B002-EV002-D00A0B-S4	<b>BSP004R</b>	15
BCC M415-0000-1A-003-PX0434-020	<b>BCC032F</b>	19	BSP B100-EV002-D00A0B-S4	<b>BSP0019</b>	15
BCC M415-0000-1A-003-PX0434-050	<b>BCC032H</b>	19	BSP B100-EV002-A03A0B-S4	<b>BSP000Z</b>	15
BCC M415-0000-1A-003-PX0434-100	<b>BCC032J</b>	19	BSP B100-EV002-D00A0B-S4	<b>BSP000M</b>	15
BCC M415-0000-1A-003-VX8434-020	<b>BCC0367</b>	19	BSP B100-EV002-D01A0B-S4	<b>BSP001K</b>	15
BCC M415-0000-1A-003-VX8434-050	<b>BCC0368</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP002J</b>	17
BCC M415-0000-1A-003-VX8434-100	<b>BCC0369</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP0039</b>	17
BCC M425-0000-1A-003-PX0434-020	<b>BCC032Y</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP004W</b>	17
BCC M425-0000-1A-003-PX0434-050	<b>BCC032Z</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP002H</b>	17
BCC M425-0000-1A-003-PX0434-100	<b>BCC0330</b>	19	BSP B100-EV003-D00A0B-S4	<b>BSP0026</b>	17
BCC M425-0000-1A-003-VX8434-020	<b>BCC036N</b>	19	BSP B100-EV003-D01A0B-S4	<b>BSP0034</b>	17
BCC M425-0000-1A-003-VX8434-050	<b>BCC036P</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP0011</b>	15
BCC M425-0000-1A-003-VX8434-100	<b>BCC036R</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP004T</b>	15
BKS-S260-3-02	<b>BCC02FE</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP001A</b>	15
BKS-S260-3-05	<b>BCC02FF</b>	19	BSP B002-EV002-D00A0B-S4	<b>BSP0020</b>	15
BSP B002-EV002-D00A0B-S4	<b>BSP004T</b>	15	BSP B250-EV002-D00A0B-S4	<b>BSP000N</b>	15
BSP B002-EV002-A01A0B-S4	<b>BSP004P</b>	15	BSP B250-EV002-D01A0B-S4	<b>BSP001L</b>	15
BSP B002-EV002-D00A0B-S4	<b>BSP0014</b>	15	BSP B002-EV002-D00A0B-S4	<b>BSP002K</b>	17
BSP B002-EV002-D00A0B-S4	<b>BSP004W</b>	15	BSP B250-EV002-D00A0B-S4	<b>BSP003A</b>	17
BSP B002-EV002-D00A0B-S4	<b>BSP000F</b>	15	BSP B002-EV002-D00A0B-S4	<b>BSP004Y</b>	17
BSP B002-EV002-D01A0B-S4	<b>BSP003K</b>	15	BSP B002-EV002-D00A0B-S4	<b>BSP002J</b>	17
BSP B002-EV002-D00A0B-S4	<b>BSP002A</b>	17	BSP B250-EV003-D00A0B-S4	<b>BSP0027</b>	17
BSP B002-EV002-D00A0B-S4	<b>BSP0045</b>	17	BSP B250-EV003-D01A0B-S4	<b>BSP0035</b>	17
BSP B002-EV002-D00A0B-S4	<b>BSP003N</b>	17	BSP B002-EV002-D00A0B-S4	<b>BSP0012</b>	15
BSP B002-EV002-D00A0B-S4	<b>BSP0049</b>	17	BSP B002-EV002-D00A0B-S4	<b>BSP004T</b>	15
BSP B002-EV003-D00A0B-S4	<b>BSP0021</b>	17	BSP B002-EV002-D00A0B-S4	<b>BSP001C</b>	15
BSP B002-EV003-D01A0B-S4	<b>BSP0041</b>	17	BSP B002-EV002-D00A0B-S4	<b>BSP000Z</b>	15
BSP B005-EV002-D00A0B-S4	<b>BSP004U</b>	15	BSP B400-EV002-D00A0B-S4	<b>BSP000P</b>	15
BSP B002-EV002-D00A0B-S4	<b>BSP004R</b>	15	BSP B400-EV002-D01A0B-S4	<b>BSP003M</b>	15
BSP B002-EV002-D00A0B-S4	<b>BSP0015</b>	15	BSP B002-EV002-D00A0B-S4	<b>BSP002L</b>	17
BSP B002-EV002-D00A0B-S4	<b>BSP003Y</b>	15	BSP B002-EV002-D00A0B-S4	<b>BSP0047</b>	17
BSP B005-EV002-D00A0B-S4	<b>BSP000H</b>	15	BSP B002-EV002-D00A0B-S4	<b>BSP004Z</b>	17
BSP B005-EV002-D01A0B-S4	<b>BSP003L</b>	15	BSP B400-EV002-D00A0B-S4	<b>BSP004C</b>	17
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Sorted by ordering code

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BAM01KP	BAM AD-SP-008-1G4/1G4-4	18	BSP002M	BSP B002-EV002-D00A0B-S4	17
BAM01KR	BAM AD-SP-008-1G4/1G4-4	18	BSP003N	BSP B002-EV002-D00A0B-S4	17
BAM01KT	BAM AD-SP-008-1G4/1G4-4	18	BSP002P	BSP B002-EV002-D00A0B-S4	17
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BSP002L	BSP B002-EV002-D00A0B-S4	17			

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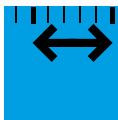
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## Object Detection

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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