

With extended functionality and a high IP rating for flexible application

## PRESSURE SENSORS WITH DISPLAY – THE NEW GENERATION

In machines with high utilization it is important to detect and be able to assess all the machine parameters. This is especially true in metalworking.

Modern milling or turning centers have a hydraulic circuit for both the tool and workpiece changing. To ensure the correct clamping of the tool and workpiece, you must monitor the process pressure of the respective hydraulic circuit.

The new Balluff pressure sensors with display offer you an outstanding instrument for achieving this. This generation comes standard with IP67 protection, and even offers the option of IP69K. In addition to this exclusive feature the sensors also offer expanded functionality: Configurable outputs let you make flexible use of the pressure sensors and take advantage of their comprehensive diagnostic functions for condition monitoring.

The switchable outputs can be controlled via IO-Link and the reading out of the set switching point or an analog value is possible. You can also use IO-Link to detect and, when needed, eliminate the pressure peaks in the circuit. All of the features help deliver high machine uptime.

### Features

- Flexible application with configurable outputs: analog, digital and IO-Link
- Can withstand harsh environments – highest IP rating in the market (IP67, optional IP69K) and temperature range of  $-40 \dots +125 \text{ }^{\circ}\text{C}$
- Additional diagnostic functions: Supplies information on run hours, pressure peak counter and internal temperature trend
- One system – from the sensor to networking and connectivity in a single source



## BSP PRESSURE SENSORS WITH DISPLAY



0...0.1 BAR			BSP0102
0...0.5 BAR			BSP0103
0...1 BAR			BSP0100
0...2 BAR			BSP0101
-1...2 BAR	BSP00YR	BSP00ZH	
0...10 BAR	BSP00Y4	BSP00Z6	
0...20 BAR	BSP00Y6	BSP00Z7	
0...100 BAR	BSP00Y8	BSP00Z9	
0...250 BAR	BSP00YC	BSP00ZC	
0...400 BAR	BSP00YH	BSP00ZE	
0...600 BAR	BSP00YK	BSP00ZF	
Operating voltage	18...30 V DC	18...30 V DC	18...30 V DC
Output 1 selectable	PNP/NPN/IO-Link	PNP/NPN/IO-Link	PNP/NPN/IO-Link
Output 2 selectable	PNP/NPN/4...20 mA/0...10 V	PNP/NPN/4...20 mA/0...10 V	PNP/NPN/4...20 mA/0...10 V
Accuracy	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL	≤ ±0.5 % FSO BFSL
Media temperature	-40...+125 °C	-40...+125 °C	-10...+125 °C
Process connection	G¼" internal thread	G½" external thread, front-flush	1½" TriClamp, front-flush
Transmission medium	-	Silicone oil	Food grade oil
Process connection material	Stainless steel 1.4301	Stainless steel 1.4404	Stainless steel 1.4404
Protection degree	IP67	IP67	IP67, IP69K
Approval/conformity	CE, cULus	CE, cULus	CE, cULus, ECOLAB
Connection	M12 male, 4-pole	M12 male, 4-pole	M12 male, 4-pole

## ACCESSORIES



	BAM01U0	BAM01KP	BAM01KT	BAM01UJ
Description	Mounting clamp, 15 × 46 × 64 mm, anodized aluminum	Process adapters G¼" (DIN 3852) to G¼" (DIN 3852), stainless steel 1.4301	Process adapters G¼" (DIN 3852) to NPT¼" (DIN 3852), stainless steel 1.4301	Process adapters G¼" (DIN 3852) to G½" (DIN 3852), stainless steel 1.4301

## CONNECTIVITY



	BCC032F	BCC08MJ	BCC032H	BCC032J
Connection	M12 female, straight, 5-pole, A-coded	M12 female, straight, 5-pole, A-coded	M12 female, straight, 5-pole, A-coded	M12 female, straight, 5-pole, A-coded
Cable	PUR black, 2 m	PUR black, 3 m	PUR black, 5 m	PUR black, 10 m