

PBS plus Pressure Switches

Product information for five SICK PBS plus electronic pressure switches

The SICK **PBS plus** is an electronic pressure switch, transmitter and display in one device, with IO-Link and several switching and output configurations. The five models here cover gauge ranges from **0 to 10 bar** up to **0 to 400 bar**.

At a glance

Model	Part no.	Range	Process connection	Output / signal
PBS2-RB010SG1SSDLMA0Z	6072937	0 to 10 bar	G 1/4 male	PNP/NPN, IO-Link
PBS2-RB025SG1SSDLMA0Z	6072939	0 to 25 bar	G 1/4 male	PNP/NPN, IO-Link
PBS2-RB100SG1SSDLMA0Z	6072942	0 to 100 bar	G 1/4 male	PNP/NPN, IO-Link
PBS2-RB250SG1SSDLMA0Z	6072944	0 to 250 bar	G 1/4 male	PNP/NPN, IO-Link
PBS2-RB400SG2SS0LMA0Z	6073461	0 to 400 bar	G 1/4 female*	PNP/NPN, IO-Link**

Common features

- IO-Link V1.1 with selectable switching outputs (PNP/NPN) and, on some variants, an analog output (4 to 20 mA / 0 to 10 V)
- 4-digit red 14-segment LED display with electronic rotation
- Accuracy up to +/-0.5% of span and response time up to 5 ms
- 316L stainless steel wetted parts; supply 15 to 35 V DC
- IP67 rating (with a suitable mating connector); ambient temperature -20 to +80 C

Product profiles

PBS2-RB010SG1SSDLMA0Z

Part no. 6072937 | 0 to 10 bar

PBS plus electronic pressure switch for the 0 to 10 bar range, combining switch, transmitter and display in one device.

- Measuring range 0 to 10 bar (gauge)
- Process connection G 1/4 male
- Switching outputs PNP/NPN with IO-Link V1.1
- Accuracy up to +/-0.5% of span, response time up to 5 ms
- 316L stainless steel wetted parts, IP67 rating

PBS2-RB025SG1SSDLMA0Z

Part no. 6072939 | 0 to 25 bar

PBS plus electronic pressure switch for the 0 to 25 bar range, combining switch, transmitter and display in one device.

- Measuring range 0 to 25 bar (gauge)
- Process connection G 1/4 male
- Switching outputs PNP/NPN with IO-Link V1.1
- Accuracy up to +/-0.5% of span, response time up to 5 ms
- 316L stainless steel wetted parts, IP67 rating

PBS2-RB100SG1SSDLMA0Z

Part no. 6072942 | 0 to 100 bar

PBS plus electronic pressure switch for the 0 to 100 bar range, combining switch, transmitter and display in one device.

- Measuring range 0 to 100 bar (gauge)
- Process connection G 1/4 male
- Switching outputs PNP/NPN with IO-Link V1.1
- Accuracy up to +/-0.5% of span, response time up to 5 ms
- 316L stainless steel wetted parts, IP67 rating

PBS2-RB250SG1SSDLMA0Z

Part no. 6072944 | 0 to 250 bar

PBS plus electronic pressure switch for the 0 to 250 bar range, combining switch, transmitter and display in one device.

- Measuring range 0 to 250 bar (gauge)
- Process connection G 1/4 male
- Switching outputs PNP/NPN with IO-Link V1.1
- Accuracy up to +/-0.5% of span, response time up to 5 ms
- 316L stainless steel wetted parts, IP67 rating

PBS2-RB400SG2SS0LMA0Z

Part no. 6073461 | 0 to 400 bar

PBS plus electronic pressure switch for the 0 to 400 bar range, combining switch, transmitter and display in one device.

- Measuring range 0 to 400 bar (gauge)
- Process connection G 1/4 female*
- Switching outputs PNP/NPN with IO-Link V1.1
- Accuracy up to $\pm 0.5\%$ of span, response time up to 5 ms
- 316L stainless steel wetted parts, IP67 rating

Notes and sources

* The 0 to 400 bar part number (PBS2-RB400SG2SS0LMA0Z) is the SG2 version, which SICK lists with a G 1/4 female (EN 837) connection. The other four are SG1 versions with a G 1/4 male connection.

** The SS0 output code on the 400 bar model differs from the SSD code on the other four. Its exact output and analog configuration was not confirmed from a data sheet, so the table shows the family switching outputs.

Overpressure and burst pressure per range could not be confirmed from the data sheets retrieved, so they are not listed. SICK's manual gives 2-fold overload protection for ranges up to 600 bar. Accuracy, response time, supply and temperature values are taken from the 0 to 10 bar and 0 to 250 bar data sheets and the PBS plus operating instructions and are applied to the family.

Compiled from SICK PBS plus data sheets and operating instructions. Confirm against the current SICK documentation before quoting or ordering.