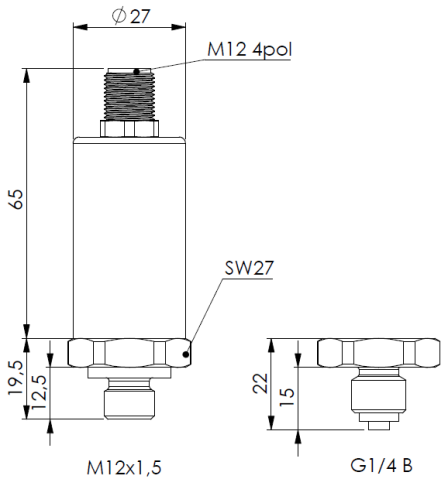


10 Technical Data

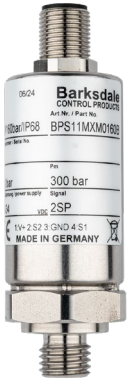
Table with 2 columns: Parameter and Value. Rows include Measuring element, Measuring Ranges, Transistor switching outputs PNP, Operating temperature range, Media temperature range, Storage temperature range, Process connection, Protection system, Electrical connection, and Power supply.

- 1) Operating conditions: max. ambient temperature 60°C, auxiliary energy max. 28 V DC
- 2) The specified protection classes apply only in mated condition with mating connectors of the respective protection class

Dimensions in mm



Operating Instructions
Dual Pressure Switch BPS1000



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Changes without notice!

**1 Intended Applications**

The dual pressure switch monitors system pressures and has up to two switching outputs and one analog output.

Operate the switch exclusively in the specified fields of application (see chapter "Technical Data" on page 12).

Observe the applicable national safety regulations for assembly, commissioning and operation of the switch.

Do not use the switch as the only safety relevant element according to DGR 2014/68/EU (PED).

**2 Safety Instructions**

The safety instructions are intended to protect the user from dangerous situations and/or prevent material damage.

In the operating instructions the seriousness of the potential risk is designated by the following signal words:



Refers to imminent danger to life and health of men.

Nonobservance will result in serious injuries, or even life-threatening injuries and death.



Refers to a potential hazard.

Nonobservance may result in serious injuries, or even fatal injuries and death.



Refers to a potential hazard.

Nonobservance may result in light injuries.



Refers to a potential hazard.

Nonobservance may result in damage to the switch and/or to the plant.



Refers to important information essential to the user.

**Disposal**

The switch must be disposed of correctly in accordance with the local regulations for electric/electronic equipment.

The switch must not be disposed of with the household garbage!

**3 Standards**

The standards applied during development, manufacture and configuration are listed in the CE conformity and manufacturer's declaration.

**4 Warranty/Guaranty**

Our scope of delivery and services is governed by the legal warranties and warranty periods.

**Terms of guaranty**

We guaranty for function and material of the dual pressure switch under normal operating and maintenance conditions in accordance with the statutory provisions.

**Loss of guaranty**

**The agreed guaranty period will expire in case of:**

- incorrect use,
- incorrect installation or
- incorrect handling or operation contrary to the provisions of these operating instructions.

No liability is assumed for any damage resulting therefrom, or any consequential damage.

Refer to Barksdale "Standard Terms and Conditions".

**5 Installation**

**Attention!** Jolts and heavy vibrations must be avoided during transport. Even if the switch casing remains undamaged, inside parts may be damaged and cause malfunctions.

**The pressure switch may only be installed and electrically connected by trained and instructed staff according state-of-the-art standards.**



Install the switch only in systems where the maximum pressure Pmax is not exceeded (see type label). Only install the switch when deenergized (electrically and hydraulically/pneumatically).

Mount the pressure switch from the bottom to the fitting using a wrench SW 27 and tighten it to a torque of 20 Nm.

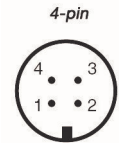
The maximum axial torque on the electrical connector should not exceed 1 Nm.

Electrical connection is to be carried out dependent on the type of switch (see type label) according to the chart below. Wrong assignment of the connections may cause malfunctions or incorrect switch outputs.

**Electrical connection**

Plug M 12x1 4-pin	Model with 2 switching points
	Signal output code 1
1	+Ub
2	SP2
3	0V
4	SP1

**Plug**



**6 Commissioning / Operation**

The pressure switch may only be commissioned and operated by authorized staff.

**⚠ WARNING! Hot surfaces!**

During operation with higher temperatures the casing surface may become very hot! Wear protective gloves!

**⚠ WARNING! Electric shock!**

Do not put the switch into operation when the switch itself or the connection cable is damaged.

**7 Programming**

Programming is carried out using the BPS1000 programming adapter. This must be purchased separately. The device has the preset switching points and switching behavior specified on the name plate.

**8 Maintenance/Cleaning**

**Maintenance**

The pressure switch requires no maintenance.

**⚠ WARNING! Risk of injury!**

Check the switch for functioning at regular intervals.

If the switch does not work properly, stop operation immediately.

**Cleaning**

**Attention! Material damage!**

The devices may be damaged by the use of unsuitable cleaning agents.

**9 Decommissioning**

**⚠ DANGER! Electric shock and/or explosion!**

Only remove the switch when deenergized (electrically and hydraulically/pneumatically).

Disconnection of the switch from pressure and power supply must be carried out by trained or instructed personnel according to state-of-the-art standards.

**⚠ WARNING! Hot surfaces!**

During operation with higher temperatures the casing surface may become very hot! Wear protective gloves!