

INSTRUCTION MANUAL

Please keep these operating instructions.

PRESSURE SWITCH WITH NC/NO CONTACT

TYPE 801/802/803/804/851/852/853/854



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TYP 801/802/851/852



Without protective cap



Cap PG7



Cap PG9

TYP 803/804/853/854 with plug connection



Without protective cap



Protective cap PG9 with strain relief

Attention: All of the following warnings and notes must be considered.



Note: This document can be downloaded from our homepage www.Kant-Druckschalter.de
Only the documents currently available on the homepage are valid.

SAFETY INSTRUCTIONS

These installation and operating instructions are intended for fitters and maintenance personnel as well as for designers who require the pressure switch for an application. Please read the complete operating instructions carefully before commissioning and pay particular attention to the following hazard warnings and notes.



Caution: Failure to observe these instructions may result in injury.

Instructions for the safe use of the pressure switch:

- Do not exceed any of the specified limits.
- Remove all packaging before installation.
- Extreme environmental conditions such as high temperatures, humidity, dirt etc. must be avoided at all costs. These can cause the pressure switch to fail.
- Do not use damaged installation elements and always ensure proper fastening.
- Always make sure that the fastening screws are complete and ensure firm screwing.
- The pressure switch must not be subjected to strong shocks.
- The user must check whether the plug connection complies with the regulations of the specified degree of protection.
- Switch off the pressure medium during assembly or repair work on the pressure switch.
- Piston pressure switches are not suitable for gaseous media (oxygen etc.). When using oxygen with diaphragm pressure switches, all safety regulations must be observed.
- The overpressure protection refers to static load. Under dynamic load the value is reduced by at least 25%.
- Always consider all safety instructions and warnings during installation and commissioning.

FUNCTION

A Kant Pressure Switch Type 801/802/803/804/851/852/853/854 opens/closes an electric circuit when a certain pressure range is exceeded, thus monitoring a specific pressure value. By applying a pressure, a diaphragm is deformed or a piston is displaced by a lifting movement. The deformation or movement depends on an adjustable spring preload. When the switching point is reached, the diaphragm or piston has undergone a defined movement, via which the switch is actuated and the electrical circuit is opened/closed.

TECHNICAL DATA**Type 801/851**

Pressure switch with NC contact
Width across flats 24
Height 40
Thread length 9

Type 802/852

Pressure switch with NO contact
Width across flats 24
Height 40
Thread length 9

Type 803/853

Pressure switch with NC contact and
plug connection
Width across flats 24
Height 43
Length of thread 9
Flat-pin plug 6.3

Pg 9 with strain relief
Optionally with coupler plug
Plug connection swivelling 6 x 60°

Type 804/854

Pressure switch with NO contact and
plug connection
Width across flats 24
Height 43
Length of thread 9
Flat-pin plug 6.3

Pg 9 with strain relief
Optionally with coupler plug
Plug connection swivelling 6 x 60°

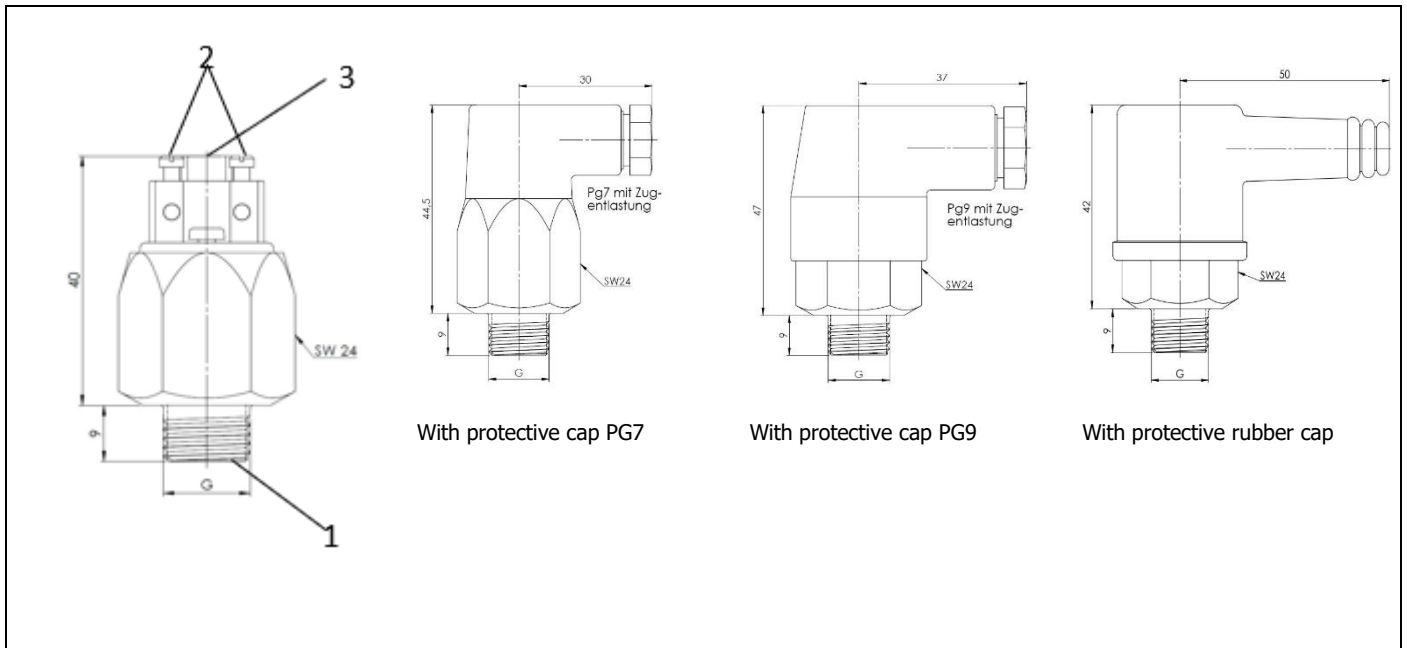
SWITCHING ELEMENT	NC 801/851	NO 802/852	
REPRODUCIBILITY	~ 5%	MAX. CURRENT	2Amp
HYSTERESIS	~ 5-10%	MAX. VOLTAGE	48V/250V
SWITCHING FREQUENCY	200/min	PROTECTION CLASS	IP55
TEMPERATURE RANGE	-20 to +100° C	WEIGHT	0,09 kg

SWITCHING ELEMENT	NC 803/853	NO 804/854	
REPRODUCIBILITY	~ 5%	MAX. CURRENT	2Amp
HYSTERESIS	~ 5-10%	MAX. VOLTAGE	48V/250V
SWITCHING FREQUENCY	200/min	PROTECTION CLASS	IP55
TEMPERATURE RANGE	-20 to +100° C	WEIGHT	0,09 kg

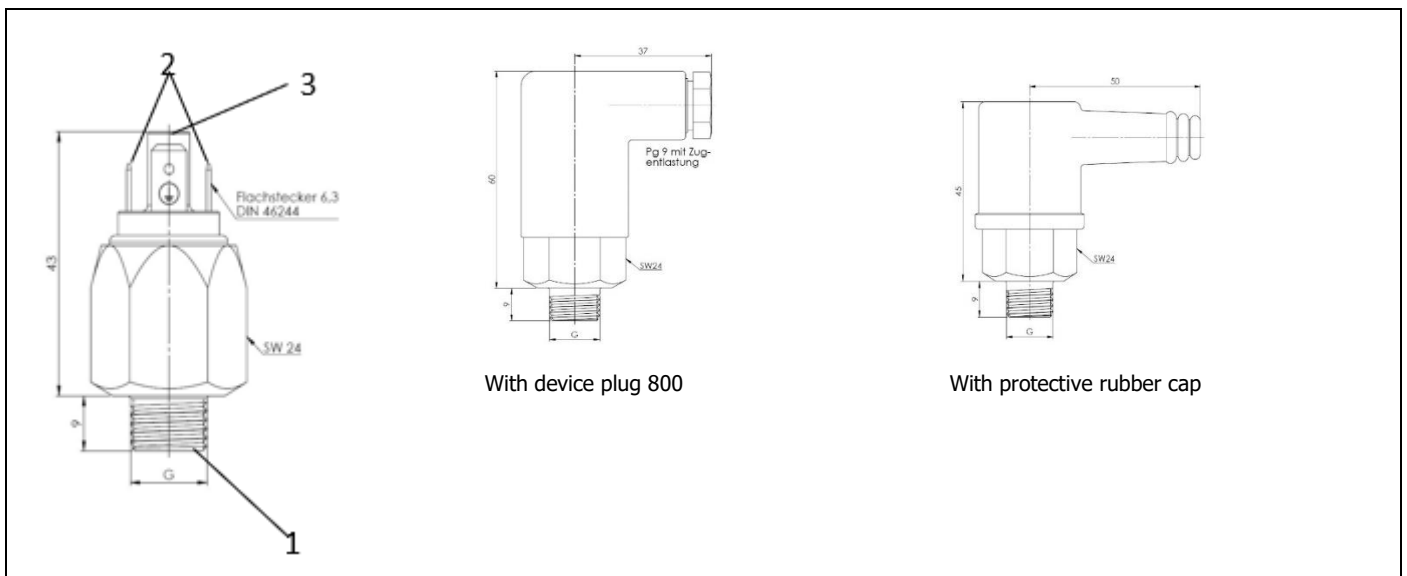
The functions breaking, making or changing relate to rising pressure.

DESIGN OF THE PRESSURE SWITCH

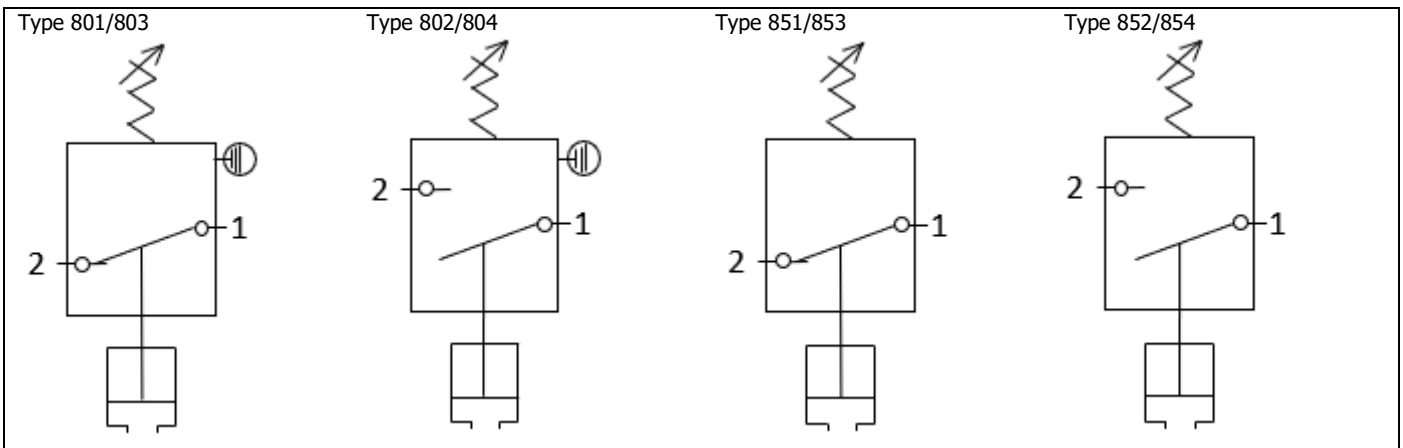
TYPE 801/802/851/852



TYPE 803/804/853/854



CONNECTION



ASSEMBLY AND COMMISSIONING

- Screw the pressure switch with its mounting thread (1) into the pressure connection provided. Use a suitable sealing ring for sealing.
- With protective cap PG7/PG9:
Remove the protective cap before adjusting the pressure switch.



Caution: Tighten the pressure switch only on the metal housing - risk of damage!

- Connect the electrical connections (2) to a continuity tester.
- Completely tighten the adjusting screw (3) with low torque. Then unscrew the adjustment screw until the continuity tester reacts to set the desired switching pressure.

When commissioning the pressure switch, please observe the relevant safety regulations of the employers' liability insurance association or the respective national regulations.



Caution: Observe the permissible electrical switching capacity - risk of damage!

DISASSEMBLY

Follow these instructions when removing the pressure switch:

- The pressure switch must be in a pressureless and deenergised state.
- Use a suitable tool to disassemble the pressure switch on the provided wrench surfaces or hexagonal profiles.
Damage may occur if other surfaces or unsuitable tools are used.
- Always observe all relevant safety regulations.

NOTE

The data and descriptions in this manual have been compiled to the best of our knowledge. However, the manufacturer cannot be held liable for errors. In any case, the operator must ensure that a failure or defect of the product cannot lead to further damage.