

INSTRUCTION MANUAL

Please keep these operating instructions.

PRESSURE SWITCH WITH NC/NO CONTACT

TYPE 801/802/803/804



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TYP 801/802



Without protective cap

Cap PG7

Cap PG9

TYP 803/804 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 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

Typ 801

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

Typ 802

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

Typ 803

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°

Typ 804

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

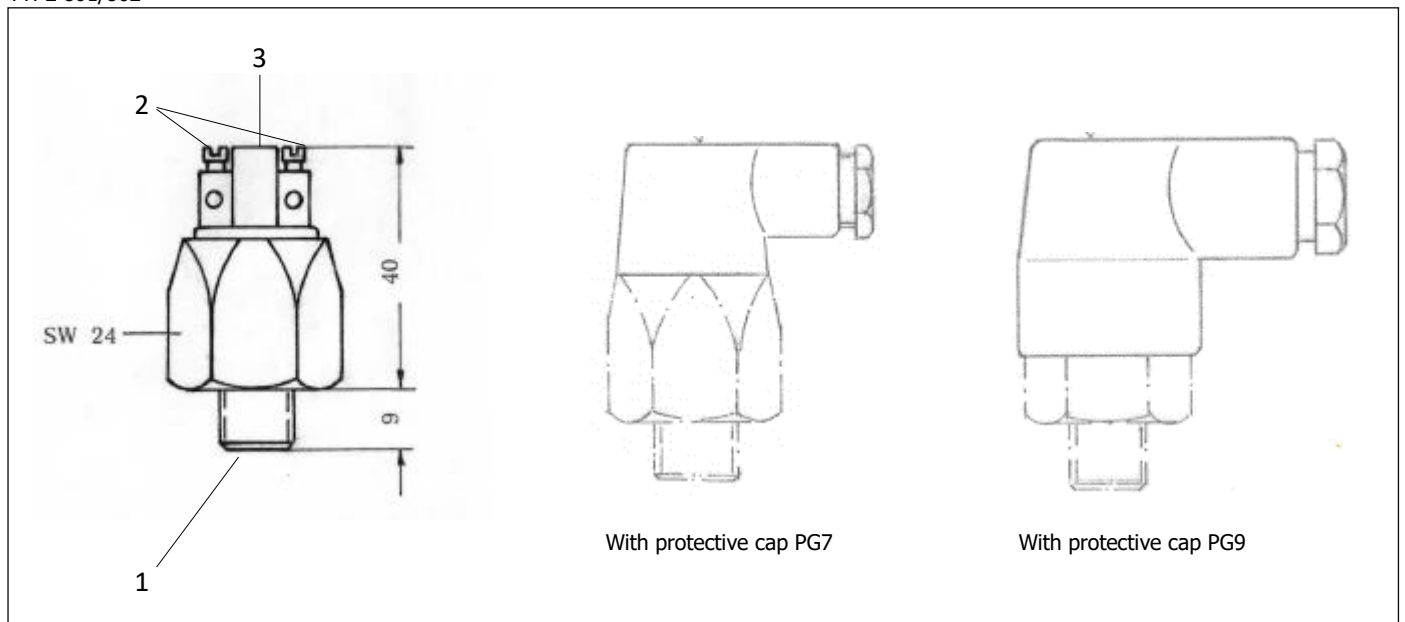
Pg 9 with strain relief
Optionally with coupler plug
Plug connection swivelling 6 x 60°

Type = Reference No.	801-1 802-1 803-1 804-1	801-10 802-10 803-10 804-10	801-20 802-20 803-20 804-20	801-100 802-100 803-100 804-100	801-200 802-200 803-200 804-200	801-100 K 802-100 K 803-100 K 804-100 K	801-200 K 802-200 K 803-200 K 804-200 K
Range of adjustment, bar	0,2-1	1-10	2-20	10-100	20-200	10-100	20-200
Overpressure safety	300 bar			600 bar			
Sealing element	Diaphragm					Rotary Seal	
Reproducibility	~5%						
Hysteresis	~5-10%						
Switching frequency	200/min						
Voltage, max.	250 Volt						
Current, max	2 Amp.						
Type of protection	IP 55						
Temperature, permissible	-20° bis +100°						
Weight	0,09 kg						
Thread	G 1/8", G 1/8" keg., NPT 1/8", G 1/4", M 10x1 keg., M 12x1,5						

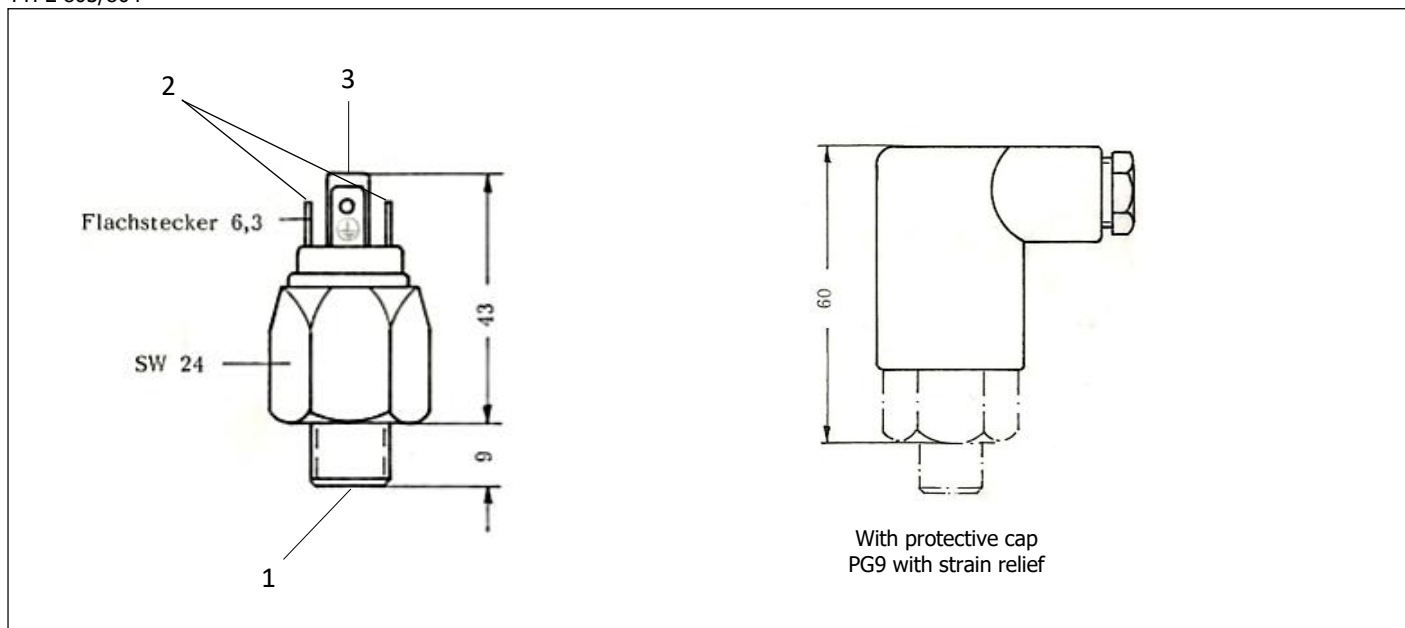
The functions breaking, making or changing relate to rising pressure.

DESIGN OF THE PRESSURE SWITCH

TYPE 801/802

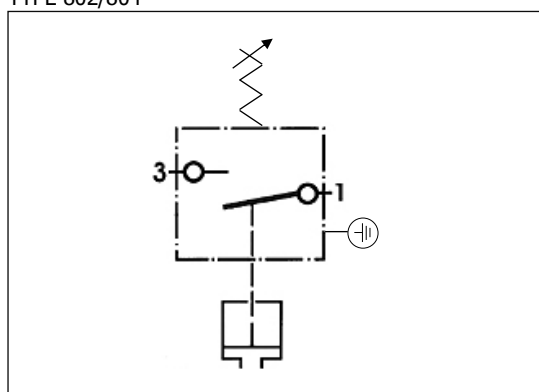


TYPE 803/804

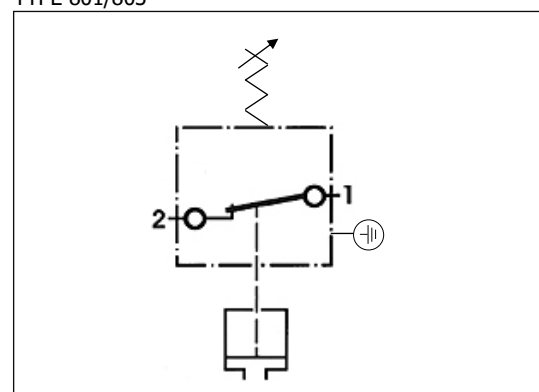


CONNECTION

TYPE 802/804



TYPE 801/803



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.