

# INSTRUCTION MANUAL

Please keep this manual for future reference.

## PRESSURE SWITCH WITH CHANGEOVER SWITCH TYPE 606/656



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The following warnings and instructions are to be observed at all times.



Note: This document is available for download on our homepage [www.Kant-Druckschalter.de](http://www.Kant-Druckschalter.de) .  
Only the documents currently obtained via our homepage are valid.

### SECURITY

These installation and operating instructions are intended both for fitters and maintenance personnel as well as for design engineers who require the pressure switch for an application. Please read the entire instruction manual carefully before commissioning and pay particular attention to the alerts and notes explained below.

#### Safety instructions



**Caution: Failure to observe can lead to injuries.**

Instructions for the safe use of the pressure switch:

- Do not exceed any of the stated limit values.
- Remove all packaging before installation.
- Extreme environmental influences such as high temperatures, humidity, dirt etc. must be avoided at all costs. These can lead to failure of the pressure switch.
- Do not use any damaged installation elements and always ensure good fastening.
- Always make sure that all fixing screws are in place and connected tightly.
- The pressure switch must not be exposed to strong vibrations.
- The user must check whether the plug connection complies with the regulations for the stated 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.). All safety regulations must be observed when using oxygen with diaphragm pressure switches.
- The overpressure safety refers to static load. With dynamic load, the value is reduced by at least 25%.
- Always observe the safety and warning instructions during installation and commissioning.

## FUNCTION

A Kant pressure switch type 606/656 has an integrated electric changeover switch. When pressure is applied, a diaphragm is deformed or a piston is displaced via a lifting movement. The deformation or displacement is dependent on an adjustable spring preload. When the switching point is reached, the diaphragm or piston has undergone a defined movement which actuates the switch and opens or closes an electrical circuit. Specific pressure values can be monitored via the switching signal.

## TECHNICAL DATA

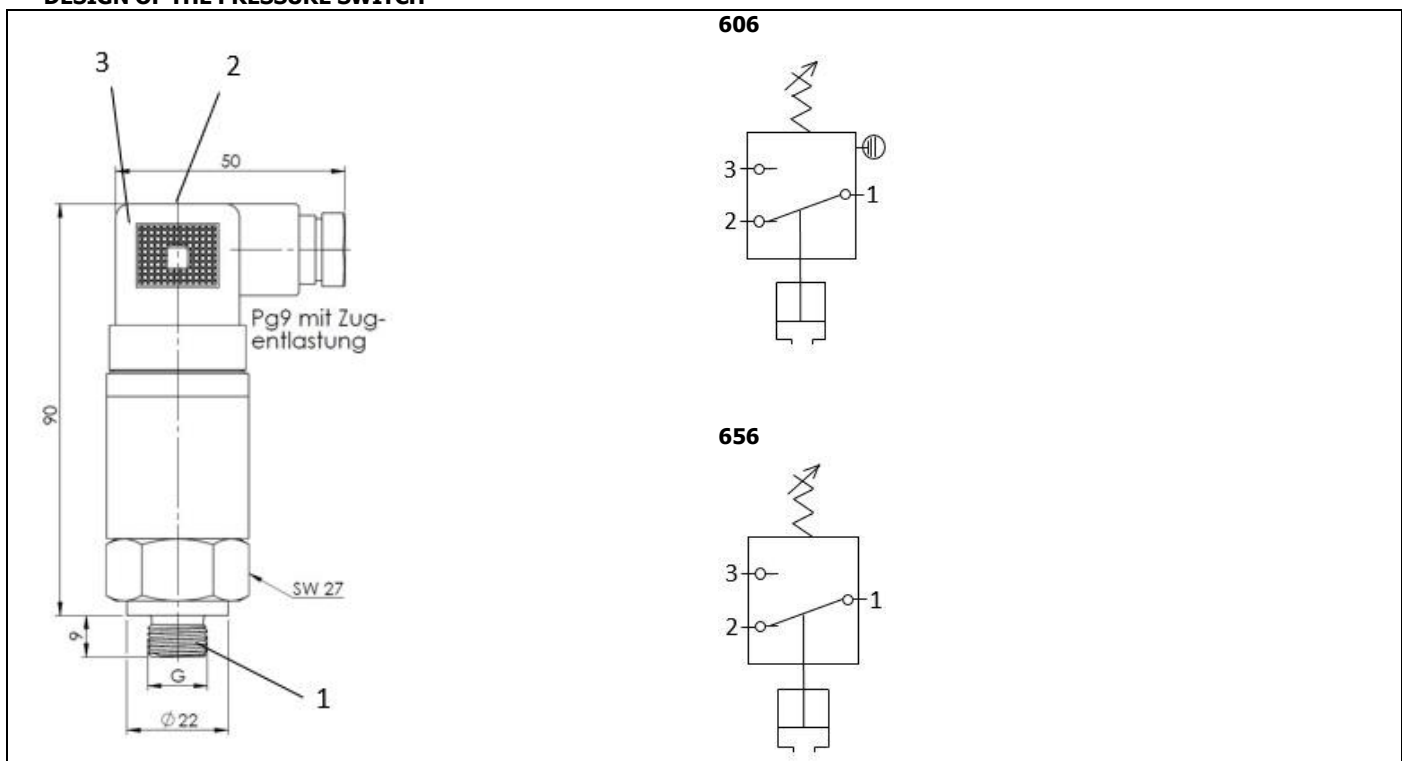
Pressure switch with changeover switch  
 Flat connector 6,3 DIN 46244  
 Wrench size 27  
 Installation height 90mm  
 Thread length 9mm

SWITCHING ELEMENT 606/656	Changeover switch		
REPRODUCIBILITY	~ 2-5%	MAX. CURRENT	6Amp
HYSTERESIS	~ 20%*	MAX. VOLTAGE	48V/250V
SWITCHING FREQUENCY	200/min	PROTECTION CLASS	IP65
TEMPERATURE RANGE	-20 to +100°C	WEIGHT	0,12 kg

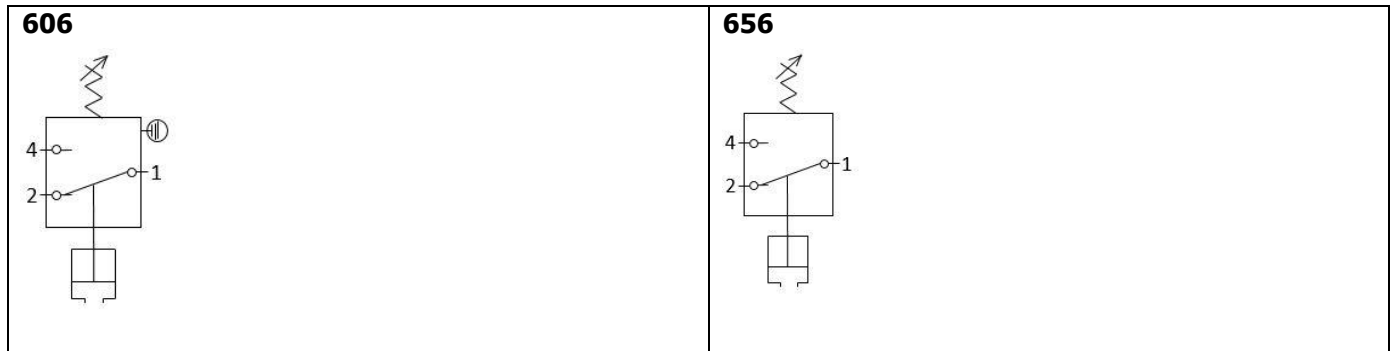
\* smaller on enquiry

The function Open, Close or Change refers to rising pressure

## DESIGN OF THE PRESSURE SWITCH



## CONNECTION



## ASSEMBLY AND COMMISSIONING

- Turn the pressure switch with its mounting thread (1) into the intended pressure connection (observe maximum tightening torque). Use a suitable sealing ring for sealing.



**Caution:** Only tighten the pressure switch on the metal housing – danger of damage!

Use the provided cable plug (3) for the electrical connection. Make sure that the cable is not bent or crushed.

- Loosen the fixing screw (2) until the cable plug (3) can be removed.
- Connect the electrical connections to a continuity tester.
- Completely screw in the adjusting screw in the center of the electrical plug with low torque. Then unscrew the adjusting screw until the continuity tester reacts and set the desired switching pressure. Never unscrew the adjusting screw completely.
- Alternative you can remove the screws of the electrical plug and remove itself, that you can see the adjusting screw to adjust the switch point.
- Press the connecting plate out of the cable plug (3).
- Connect the cables (max. wire cross-section 1.5 mm<sup>2</sup>) to the screw terminals according to the schematic diagram.
- Push the connecting plate into the connector housing (3) and reassemble with the fixing screw (2).
- Plug the cable plug (3) into the pressure switch and mount and tighten the fixing screw (2).
- Make sure that the strain relief is properly installed to ensure function and degree of protection.

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



**Caution:** Observe the permissible electrical switching capacity – danger of damage!

## DISASSEMBLY

Observe the following instructions when removing the pressure switch:

- The pressure switch must be in a depressurized and de-energized state.
- Remove the pressure switch using suitable tools on the provided key surfaces or hexagonal profiles.  
If other surfaces or unsuitable tools are used, damage may occur.
- Observe all relevant safety regulations.

## NOTE

The data and descriptions in this manual have been compiled to the best of our knowledge and belief. However, the manufacturer cannot be held liable for any errors. In any case, the operator must ensure that a failure or defect in the product cannot lead to further damage. Furthermore, This translation has been created to the best of our knowledge. If any doubt arises, the original version in German uploaded on our homepage must be applied.