

INSTRUCTION MANUAL

Please keep this manual for future reference.

PRESSURE SWITCH WITH CHANGEOVER SWITCH TYPE 603/653



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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 .
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 602/652 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
without connector 54mm

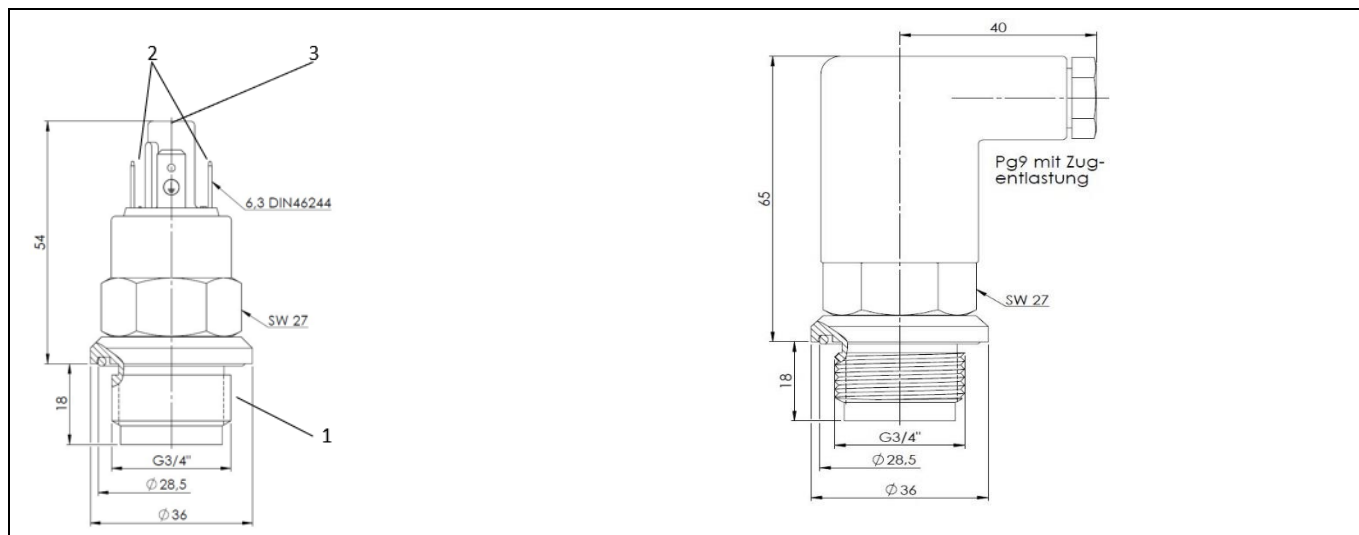
Optionally with device connector
600 PG 9 with strain relief Plug
connector 6x60° pivotable

SWITCHING ELEMENT 603/653	Changeover switch		
REPRODUCIBILITY	~ 2-5%	MAX. CURRENT	6Amp
HYSTERESIS	~ 20%*	MAX. VOLTAGE	48V/250V
SWITCHING FREQUENCY	200/min	PROTECTION CLASS	IP65
TEMPERATURE RANGE	-20 bis +100°C	WEIGHT	0,12 kg
THREAD	G3/4"	MATERIAL	Va. 1.4305
SEALING ELEMENT	Membrane 60 FKM 590	ON ENQUIRY	Va 1.4571

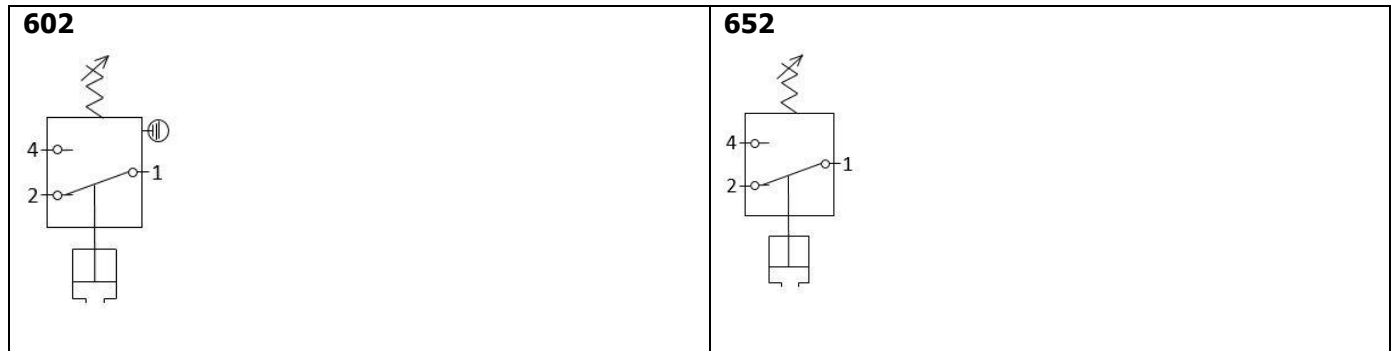
* smaller on enquiry

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.
- With device connector 600/601:
Remove the device connector before adjusting the pressure switch.



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

- Connect the electrical connections (2) to a continuity tester.
- Completely screw in the adjusting screw (3) 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.

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.