# **INSTRUCTION MANUAL**

For PB-limit-switch-boxes with V3-proximity-switches



## 1. Description

Signal devices are used to report and control the position of valves which are operated by pneumatic actuators. Depending on their design the signal boxes type PPF2V3... / PPF3V3... are equipped with one or two (standard) proximity switches. With the enclosed mounting parts the boxes can be easily and quickly mounted on actuators or valves.

### 2. Assembling



#### Risk of injury

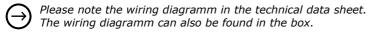
The electric components inside the box carry dangerous voltage. Moreover there is a risk of bruise by some rotating parts.

ightarrow Do not open the housing while operating!

1. Bring the actuator to a completely "Open" or "Close" position.

Closed: Valve is closed, Channel position is abreast the actuators longitudinal axis. Open: Valve is open, Channel position towards actuator axis.

- 2. Equate the modules axis with the actuator.
- 3. Attach the box with bracket on the actuator or valve and fix it.
- 4. Adapt the control unit by leading the system cable through the cable gland and wiring the single conductors with the terminal block.



# 3. Adjusting switch-points

Ex factory the modules are adjusted in the following way:

Switch-point close: Position Valve/Actuator at 0° to 3° Switch-point open: Position Valve/Actuator at 87° to 90°

(Switch-points of other switches optionally)

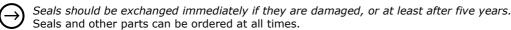
If readjustment should be necessary proceed as following:

- 1. Remove the housing cover.
- 2. Untighten the socket head screw M6 of the switch-cam-tower.

  Turn the lower switch-cam until the aglet in the cam damps the sensors. Where applicable the sensor-LED lights up.
- 3. Proceed in the same way with the upper switch-points.
- 4. Refasten housing cover.

### 4. Maintenance

Long time outdoor usage can cause gaskets to become brittle after some time. Safe operation can only be guaranteed with leak-proof boxes.



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