**Product Data Sheet**
**2021-2022**

# Digital Pressure Switch

# PEK451

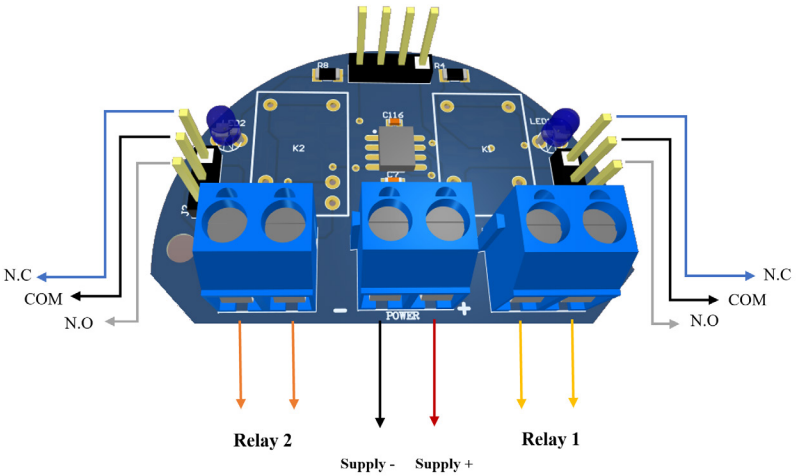
## Device Features

• Absolute and Gauge performance
• High measurement Accuracy
• Seven Segment Display
• Power Supply: 10VDC - 32VDC
• 4-20 mA output current
• 2 relays with configurable N.C. and N.O. using jumper
• Perform all calibration operations, Hystersis tuning, Setting the first stage switches and using the display locally
• Designed for use in industrial applications in the field of monitoring and warning systems

## Technical Data

| | | |
|---|---|---|
| **Power Supply** | | |
| Supply Voltage | Minimum | 12V DC |
| | Maximum | 36V DC |
| **Output** | | |
| Output Signal | SPST | |
| Load | Max. 10A | |
| **Input Types and Ranges** | | |
| Absolute Sensor | ±7MPa | 10.5 MPa |
| **Performance Characteristic** | | |
| Accuracy | 0.3 Kpa , 3mbar | |
| Stability | ±0.3% of output reading or ±0.5°C (whichever is greater) | |
| 5 Years Stability | ±0.7% of output reading or ±1°C (whichever is greater) | |
| Noise suppression for noise frequency | 50/60 Hz | |
| Update time | < 0.5 sec | |
| Response Time | 0.8 sec | |
| Switch on Delay | 3 sec | |
| Influence of Ambient | Negligible | |
| Load Influence | Negligible | |
| Power Supply Influence | Negligible | |
| Resolution | 1µA | |
| **Electromagnetic Compatibility (EMC) standards** | | |
| Electromagnetic Compatibility (EMC) standards | IEC/EN 61326-1: 2006<br>IEC/EN 61326-2-3: 2006 | |
| EMC | ESD | 4KV Contact<br>8KV Air |
| | Radiated | 80-1000MHz @ 10V/m AM |
| | Burst | 1KV |
| | Surge | 0.5KV Line-Line<br>1KV Line-Earth |
| | Conducted | 150KHz to 80MHz @ 10V |
| | Magnetic | 50Hz @ 30A/m |
| | Emission | 30-230MHz, 30dB (uV/m) @ 10m<br>230-1000MHz, 37dB (uV/m) @ 10m |

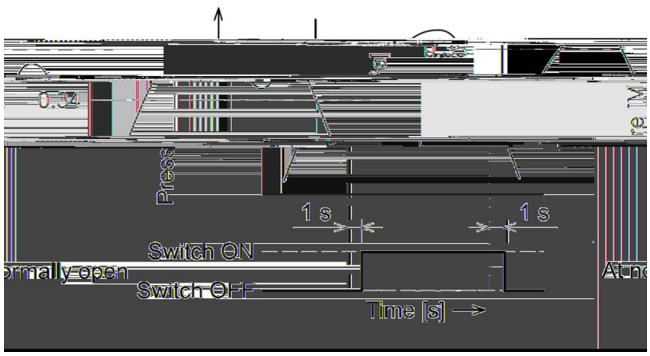
## Electrical Connection

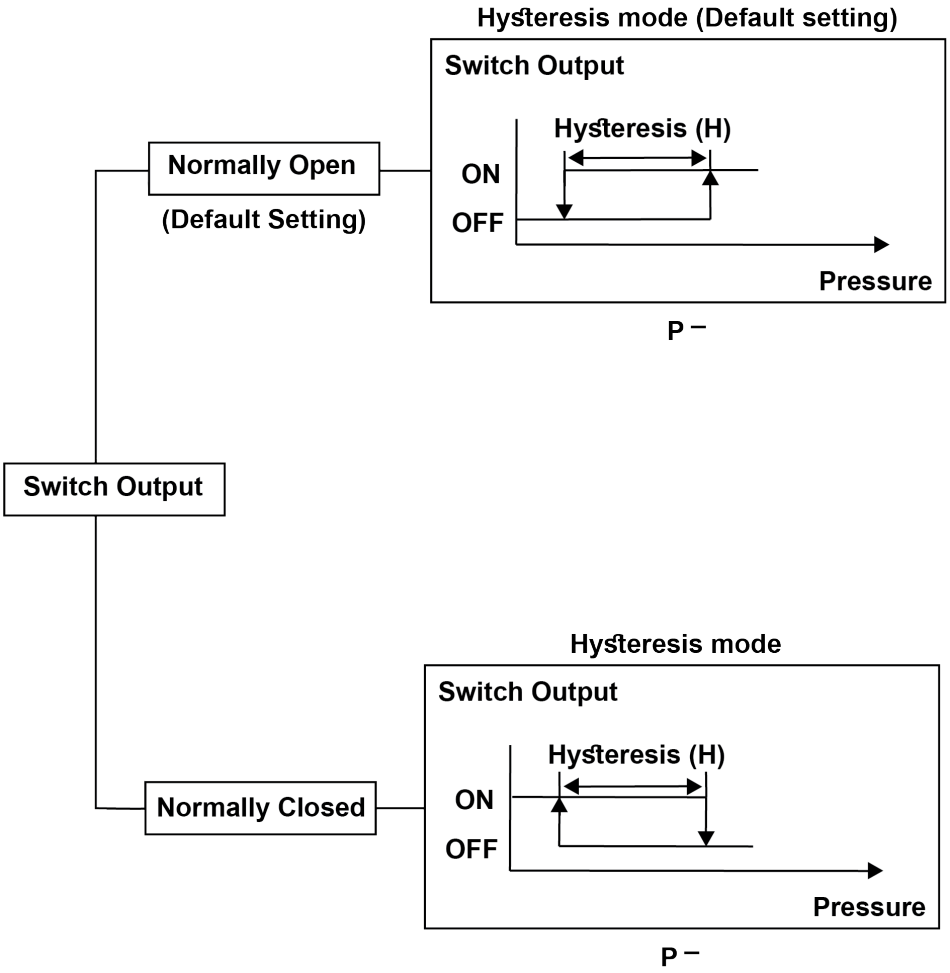



## Operation

When the pressure exceeds the value, the switch will be turned on. When the pressure falls below the set value by amount of hysteresis or more, the switch will be turned off.

For example, the Pressure switch is set to turn ON when the pressure exceeds 0.35 MPa, and turn OFF when it lowers 0.34 MPa.



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