

ELECTRONIC PRESSURE SWITCH

Pressure range: 0...+4,000 bar
Operating voltage: 10...30 V DC
Output: npn or pnp; max. 1.7 A DC
Operating temperature: -20 °C to +80 °C,
optional: -40 °C to +125 °C

Resistant to pressure peaks
Shockproof- and vibration-proof
Insensitive to temperature shocks
Protection class IP 65 according to DIN EN 60 529
Parts and casing with contact to measuring material of CrNi steel

CONSTRUCTION

Special steel membrane
Poly-Si- on SiO₂ (thin film resistance)
Operating temperature: -20°C to +80 °C
Total error: < 0.5 %
Electrical Connection: Binder 4-pole
Options: Factory programmed or via PC (CD available), two switching points, programmable hysteresis and time delay, optional averaging
Weight: ca. 100 g

APPLICATION

Hydraulic Systems i Environnemental Techniques
Pneumatics i Process Control
Pressure Instrumentation i Heating plants

TECHNICAL INFORMATION

Standard pressure ranges:

0.6	1.6	2.5	6	10	16	25	40	60
100	160	250	400	600	1,000	1,600	2,000	4,000

other ranges on request

overload: > 2 x max. pressure
burst: > 3 x max. pressure

Supply voltage: 10...30 V DC
Power consumption: max. 30 mA
Max. output current: 1.7 A DC (internally limited)
Max. switching voltage: 30 V DC (for npn-type following to supply voltage)
Min. response time: 5 ms
reverse and overload protected
switching delay: min. 5 ms; max. 655 s; step width 10 ms
switching points at: 0.5...100 % F.S.; step width 0.5 %
number of switch. points: 2 (for switch); 4 (for range)
hysteresis: depending on switching points; min. 0.5 % F.S.
switching configuration: "NO" or "NC"
configuration tool: PC-adapter for LPT-port; software

Please note: Configurable parameters can be set by PC-software without necessity of any reference pressure. Factory setting is "NO"-switching with 35 % F.S. "ON" and 25 % F.S. "OFF".

