

# ELECTRONIC PRESSURE SWITCH

**DPF**  
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**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 SiO<sub>2</sub> (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



**DS 4**

## APPLICATION

Hydraulic Systems                    ;   Environmental Techniques  
Pneumatics                             ;   Process Control  
Pressure Instrumentation           ;   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".



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