



Pressure Switches (Double Set Point) Model: D512/9D

The switch is Direct-structured type.
Temperature Package is Capillary type or DIP.
It can be used for general or corrosive gases and liquid medium. The set point is adjustable, and the capillary range is from -30°C~350°C, the DIP range is -30°C~220°C.

Main Technical Performance

Switching element	Micro-switches
Protection Class	IP65
Ambient temperature	-5~+55°C
Vibrations	20m/s ²
Repeatability Error	≤3%
Electrical rating	AC 220V 6A (Resistance) Pmax=600VA

Features

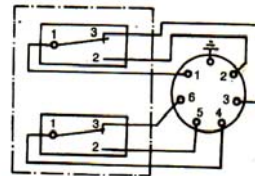
Wide range of controlling
High control accuracy
Small pressure difference
Set points of two groups micro-switches can be set separately
Sensor is suitable for corrosive medium(gas or liquid)



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Switching Function:
Micro-switch SPDT
Terminals 1-3
4-6: Contacts close on rising pressure
Terminals 1-2
4-5: Contacts open on rising pressure

Characteristic date

● Switching pressure difference no adjustable

Adjustable Range MPa	Switching pressure difference MPa	Max. Allowable Pressure *1 MPa	Number of switching cycles Z(1/min)	Pressure sensor materials	Interface MALE	Drawing No	Cat No
1-10	0.20	15	60	316L	G1/2"	01	0860200
1-16	0.32	20	60	316L	G1/2"	01	0860300
2-25	0.50	32	60	316L	G1/2"	01	0860400
2-40	0.80	50	60	316L	G1/2"	01	0860500

Remakr:*In practice work, Even shot pressure peaks must not exceed this value (=max.test pressure).



□ Setting of the switching points

Choose a switch, it's set point range is 2-40MPa.

Use Range spindle to set the upper or lower switching point on design with fixed switching pressure difference. The opposite one is determined by the fixed switching pressure difference.

On designs with adjustable switching pressure difference. Use Range spindle to set the lower switching point, then use Differential spindle to set the upper switching point by adding the desired switching pressure difference.

Turning the range spindle anticlockwise shifts both switching points upwards.

Turning the differential spindle anticlockwise shifts only the upper switching point upwards, i.e. the switching pressure difference (distance between the upper and lower switching points) increases.

Example :

Desired :

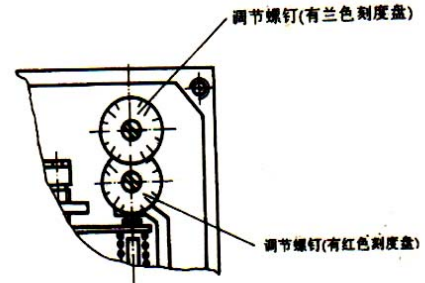
Lower switching point 25.4MPa Mpa(one group), 34.4MPa(another group)

Upper switching point 26MPa(one group),35MPa(another group)

(Switching pressure difference=0.6Mpa)

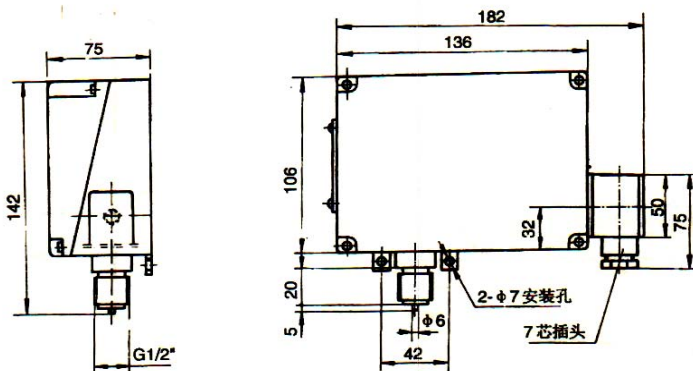
Setting: 26MPa,35MPa (with Range spindle)

0.6MPa (with Differential spindle)



To set precise switching points a pressure gauge is required.(The pressure switch is a switching and regulating device and not a measuring instrument even if has a scale to assist in the setting.). Switches can be adjusted even during operation. Range- and differential spindle are provided with a releasable detent; switch can also be lead-sealed.

□ Dimensional drawing Units: mm



□ Switch selection and mounting instructions

The switching points should normally be in about the middle of the adjustable range.(20%~80%)

Observe switching pressure during normal operation .

Do not exceed electrical ratings.

Electrical connection by a M18x1.5 cable gland, in accordance with local regulations.

For outdoor installation sufficient protection has to be provided for Critical conditions are: Aggressiveness of air, high or low temperatures, drastic changes in temperature, solar radiation, penetration of water.

For liquid media with pressure peaks and /or pulsating pressure, install surge damper upstream to eliminate scattering of switching points and excessive wear.

If working fluid is steam, install condenser coil upstream. Avoid twisting of pressure sensor, hold it tight when connecting the switch.