



Pressure Switches

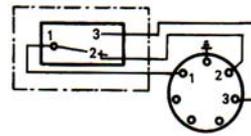
Model: D512/10D (originally YTK-12)

The sensor is spring type. The switch is suitable for corrosive gas and liquid medium. The setting of switch is adjustable, and the range is from 1 to 40MPa.



Main Technical Performance

Working viscosity: $\leq 400 \text{ mm}^2/\text{s}$
Switching element: Micro-switches(one group)
Protection Class: IP65
Ambient temperature: $-25^\circ\text{C} \sim +55^\circ\text{C}$
Fluid temperature: $0 \sim +80^\circ\text{C}$
Vibrations: MAX 10 m/s^2
Repeatability: $\leq 1\%$
Electrical rating: $V_{\text{max}}=380\text{VAC}$ $I_{\text{max}}=6\text{A}$ (Resistance)
 $P_{\text{max}}=600\text{VA}$
Mounting position: Option



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

Features

wide range of controlling
 high accuracy of controlling
 Small pressure difference
 The sensor is suitable for corrosive medium including gas or liquid.

Characteristic date

● **Switching pressure difference no adjustable**

Adjustable Range MPa	Switching pressure difference MPa	Max. Allowable Pressure * MPa	Number of switching cycles Z(1/min)	Pressure sensor materials	Interface external thread	Drawing No.	Cat No.
1-10	0.20	15	60	316L	G1/2"	01	0830200
1-16	0.32	20	60	316L	G1/2"	01	0830300
2-25	0.50	32	60	316L	G1/2"	01	0830400
2-40	0.80	50	60	316L	G1/2"	01	0830500

注:* Even shot pressure peaks must not exceed this value (=max.test pressure).

Setting of the switching points



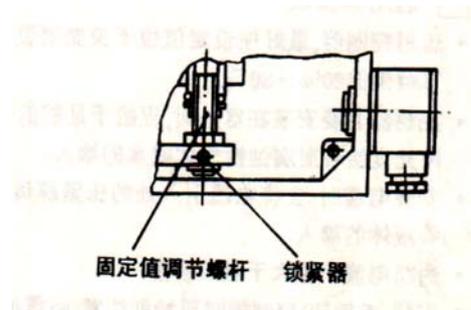
Choose a switch of pressure difference from 2 to 40MPa.As follows:

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.

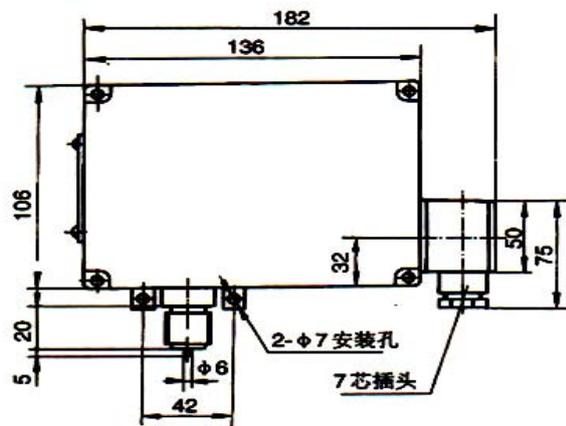
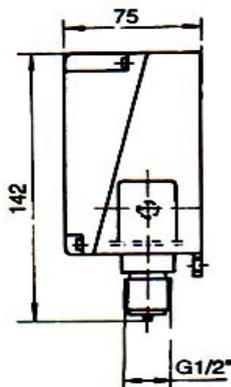
Desired : Lower switching point 25Mpa
 Upper switching point 26MPa
 (Switching pressure difference=0.8Mpa)
 Setting: 26MPa (with **Range spindle**)
 0.8MPa (with **Differential spindle**)



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 leadsealed.

Dimensional drawing

Units: mm



Switch selection and mounting instructions (the same as D512/9D)