



Pressure Switches

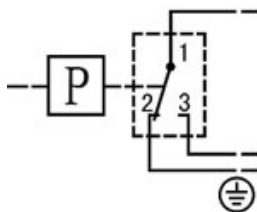
Model: D501/7D、D501/7DK



上海远仪控制器厂有限公司

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Switching Function:

Microswitch SPDT

Terminals 1-3:Contacts close on rising pressure
Terminals 1-2:Contacts open on rising pressure

Explosion-proof Pressure Switches

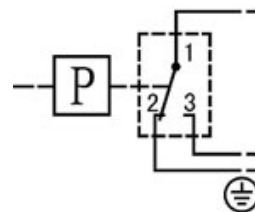
Model: D501/7D (EX)



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Switching Function:

Microswitch SPDT

Terminals 1-3:Contacts close on rising pressure
Terminals 1-2:Contacts open on rising pressure

Description:

The Sensor of Switches utilize Diaphragm style, the housing material for partial specification is stainless steel, it can be suitable for corrosive medium. the Set Point is adjustable, and its adjustable range is from 0 to 1Mpa.

Main Technical Performance

	General Type	Explosion-proof Type
Working viscosity	1×10^{-3} m ² /s	1×10^{-3} m ² /s
Switching element	Micro-switches	Micro-switches
Explosion Class	—	ExedIICT5 Certificate No: 2073002X
Protection Class	IP65	IP54
Ambient temperature	-5~40℃	-5~40℃
Fluid temperature	0~90℃	0~90℃
Mounting position		Vertical down
Vibrations	20m/s ²	Max: 20m/s ²
Repeatability	≤1.5%	≤1.5%
Electrical rating	AC 220V 6A	AC 250V 5A

Features

High sensitive at Lo-pressure range.

Characteristic date

- D500/7D -- Switching pressure difference no adjustable



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Shanghai YuanYi Control Factory Co., Ltd.

Adjustable Range MPa	Switching pressure difference		Max. Allowable Pressure ¹⁾ MPa	Number of switching cycles Z(1/min)	Pressure sensor materials		Connection (internal thread)	Weight (kg)	Drawing No		Cat No.	
	Lower range MPa	Upper range MPa			Housing	Diaphragm			General Type	Explosion proof type	General Type	Explosion proof type
0□0.01 0□0.025 0□0.04	0.0008 0.0009 0.001	0.0012 0.0018 0.0025	0.1 0.1 0.1	10	IC18N19Ti	IC17N14M02 (316L)	G1/4" G1/4" G1/4"	0.9 0.9 0.9	01 01 01	03 03 03	0815100 0815200 0815300	0855180 0855280 0855380
0.05□0.4 0.05□0.6 0.05□1	0.05 0.05 0.06	0.06 0.07 0.01	10** 10** 10**	40			G1/4"G 1/4"G1/4"	0.9 0.9 0.9	02 02 02	04 04 04	0813500 0813600 0813700	0853580 0853680 0853780

● **D500/7D -- Switching pressure difference adjustable**

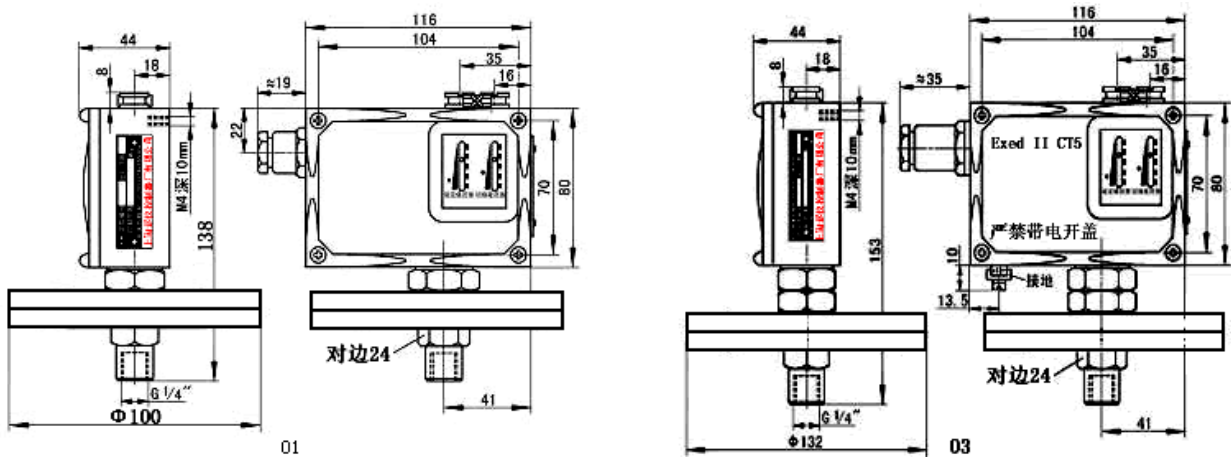
Adjustable Range MPa	Switching pressure difference		Max. Allowable Pressure MPa	Number of switching cycles Z(1/min)	Pressure sensor materials		Connection (internal thread)	Weight (kg)	Drawing No		Cat No.	
	Lower range MPa	Upper range MPa			Housing	Diaphragm			General Type	Explosion proof type	General Type	Explosion proof type
0□0.01 0□0.025 0□0.04	0.0025~0.0085 0.003~0.015 0.0035~0.03	0.004~0.0085 0.005~0.015 0.007~0.03	0.1 0.1 0.1	10	IC18N19Ti	IC17N14M02 (316L)	G1/4" G1/4" G1/4"	0.95 0.95 0.95	01 01 01	03 03 03	0805100 0805200 0805300	0845180 0845280 0845380
0.05□0.4 0.05□0.6 0.05□1	0.15~0.25 0.15~0.5 0.15~0.8	0.18~0.25 0.22~0.5 0.3~0.8	10** 10** 10**	10			G1/4" G1/4" G1/4"	0.95 0.95 0.95	02 02 02	04 04 04	0803500 0803600 0803700	0843580 0843680 0843780

● **D500/7DK -- Small switching difference (No Explosion-proof Type)**

Adjustable Range MPa	Switching pressure difference		Max. Allowable Pressure MPa	Number of switching cycles Z(1/min)	Pressure sensor materials		Connection (internal thread)	Weight (kg)	Drawing No	Cat No.
	Lower range MPa	Upper range MPa			Housing	Diaphragm				
0□□0.01 0□□0.025 0□□0.04	0.0005 0.0006 0.0006	0.0006 0.001 0.0018	0.1 0.1 0.1	10	IC18N19Ti	IC17N14M02 (316L)	G1/4" G1/4" G1/4"	0.9 0.9 0.9	01 01 01	0815107 0815207 0815307
0.05□□0.4 0.05□□0.6 0.05□□1	0.03 0.03 0.03	0.035 0.04 0.05	10** 10** 10**	10			G1/4" G1/4" G1/4"	0.9 0.9 0.9	02 02 02	0813507 0813607 0813707

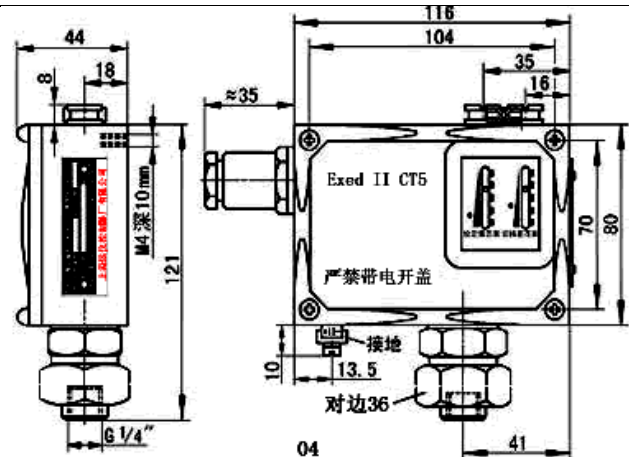
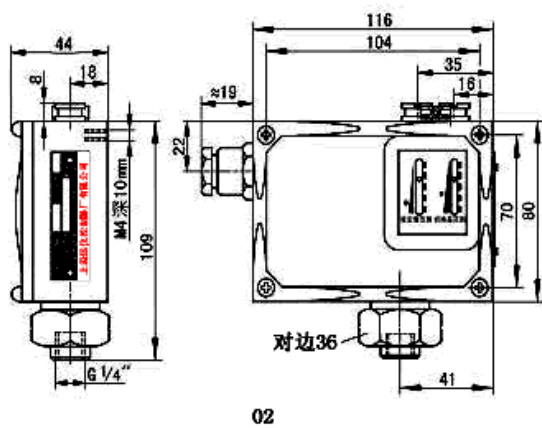
1) Even shot pressure peaks must not exceed this value (=max.test pressure)

□ **Dimensional drawing Units: mm**



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Switch selection and mounting instructions

The switching points should normally be in about the middle of the adjustable range.

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.

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.

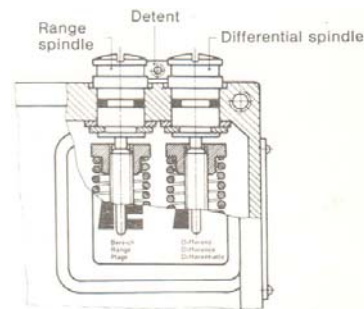
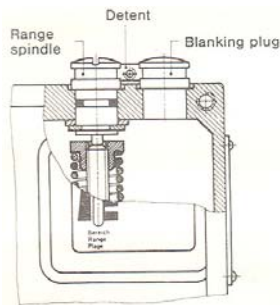
Example :

Desired : Lower switching point 0.6Mpa
Upper switching point 0.8MPa
(Switching pressure difference=0.2Mpa)

Setting of the switching points

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.



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.)

The setting can be changed at any time, even during operation.

Range and differential spindle are provided with a releasable detent; if desired, switch can also be leadsealed.

On designs with adjustable switching pressure difference. Use range spindle to set the lower switching point, then use differential spindle to set the upper