

Shanghai

YuanYi

Control

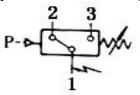
Factory

Co., Ltd

Pressure Switches (Explosion-proof type) Model: D505/7D D505/7DK (EX)

The sensor is Diaphragm-piston type. The switch is suitable for air, steam, Oil mist of gas and hydraulic oil which is non-corrosive, Water-oil emulsion and Neutral liquid medium of Good lubricity. The setting of switch is adjustable, and the range is from 0.3 to 23MPa. The process of using the phenomenon of leakage does not appear.





Switching Function: Micro-switch SPDT

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

Main Technical Performance

	General type	Explosion-proof type					
Working viscosity:	<1×10-3m²/s	<1×10-3m ² /s					
Switching element	Micro-switches	Micro-switches					
Explosion class		Exed II CT5 Certificate No:2073002X					
Protection Class :	IP65 (in line with DIN40050, appropriate on IP65 of GB4208)	IP54 (in line with DIN40050, appropriate on IP54 of GB4208)					
Ambient temperature:	-40°C ∼+50°C	-40°C∼+50°C					
Fluid temperature:	0~120°C	0∼120℃					
Mounting position		Vertical down					
Vibrations:	D505/7D: 40m/s ² D505/7DK: 20m/s ²	Max: 20m/s ²					
Repeatability:	≤1%	≤1%					
Electrical rating:	AC220V 6A (Resistance)	DC 250V 0.25A (Resistance) 60Wmax DC 250V 5A (Resistance) 1250VAmax					

Features Particularly applicable Hydraulic Equipment
Characteristic date

Switching pressure difference no adjustable

地址: 上海市嘉定区南翔镇顺达路 300 弄 46 号 电话: (021) 56325599 56983311 69927271

传真: (021) 69927273

邮编: 201802 网址: Http://www.shyuanyi.com

Tel: (021) 56325599 56983311 69927271

Fax:: (021) 69927273

Address: NO. 46, Lane 300, Shunda Road, Nanxiang Town, Jiading District, Shanghai, China

PostCode:: 201802 Mail: 6369039@qq.com



Shanghai YuanYi Control Factory Co., Ltd

Туре	Adjustable	Switching pressure difference		Max. Allowable	Number of	Pressure sensor materials		Connec tion	Weigh	Drawing No.		Cat No.	
	Range MPa	Lower range MPa	Upper Range MPa	Pressure *MPa	switching cycles Z(1/min)	Housi ng	pisto n	(interna l thread)	t kg	General Type	Explosion proof type	General Type	Explosion proof type
	0.34 0.56.3	0.5 0.6	0.9 1.3	30 30	20	Stainl ess steel	Stainl - ess steel -	G1/4" G1/4"	0.8 0.8	01	02	0816500 0816600	0856580 0856680
D505/7 D	0.510 0.516	0.6 0.7	1.6 1.9	30 30				G1/4" G1/4"	0.8 0.8	01	02	0816700 0816800	0856780 0856880
	123 140	1 2	2.5 4	30 60				G1/4" G1/4"	0.8 0.8	01	02	0816900 0817000	0856980 0857080

Switching pressure difference adjustable

	Adjustable	Switching pressure difference		Max. Allowabl Number of switching		Pressure sensor materials		Connectio	Weigh	Drawing No.		Cat No.		
Type	Range MPa	Lower range MPa	Upper Range MPa	e Pressure *MPa	cycles Z(1/min)	housin g	piston	n (internal thread)	t kg	General Type	Explosion proof type	General Type	Explosion proof type	
	0.34	0.82.	1.32.5	30	20	0 Stainle ss steel		G1/4"	0.95	01	02	0806500	0846580	
	0.56.3	5 14	1.64	30			Stainl	G1/4"	0.95 0.95			0806600	0846680	
D505/7	0.510	1.18	1.68	30				G1/4"		01	02	0806700	0846780	
D	0.516	1.312	2.212	30			ss steel	steel ess	G1/4"	0.95	01	02	0806800	0846880
	123	1.412	2.812	30			steel	G1/4"	0.95	0.1	02	0806900	0846980	
	140	224	324	60				G1/4"	0.95	01	02	0807000	0847080	

• Switching pressure difference no adjustable -Small switching difference (No Explosion-proof Type)

- Swittening	pressure uniter			7111411 5 11 164	ming uniter	1100	aprosion	proor rype)			
Туре	Adjustable	Switching differ		Max. Number of switching		Pressure sensor materials		Connection	Weight	Descripe	
	Range MPa	Lower range	Upper Range	le Pressure	cycles	housing piston	(internal thread)	kg	Drawing No.	Cat No.	
		MPa	MPa	*MPa	Z(1/min)		F	,			
	0.34	0.3	0.8	30	20			G1/4"	0.9	01 01 01	0817207
	0.56.3	04	1.2	30			Stainles	G1/4"	0.9		0817307
D505/7DK	0.510	0.4	1.4	30				G1/4"	0.9		0817407
D303//DK	0.516	0.5	1.6	30			s steel	G1/4"	0.9		0817507
	125	0.5	1.2	30				G1/4"	0.9		0817607
	140	0.8	1.8	60				G1/4"	0.9		0817707

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

☐ Switch selection and mounting instructions

Setting of the switching points (see pressure switches)

地址: 上海市嘉定区南翔镇顺达路 300 弄 46 号

电话: (021) 56325599 56983311 69927271

传真: (021) 69927273 邮编: 201802

网址: Http://www.shyuanyi.com

Address: NO. 46, Lane 300, Shunda Road, Nanxiang Town, Jiading District, Shanghai, China

02

Tel: (021) 56325599 56983311 69927271

Fax:: (021) 69927273 PostCode:: 201802 Mail: 6369039@qq.com



Shanghai YuanYi Control Co., Ltd. Factory

1. Pressure difference is non-adjustable

Choose Cat. No.0816700

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.

Example1:

Desired: Lower switching point 4.4MPa Upper switching point 5MPa (Switching pressure difference=0.6Mpa)

Setting: 5MPa (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.

Example2:

Choose Cat. No.0816800

Desired: Lower switching point 8MPa Upper switching point 8.9MPa (Switching pressure difference=0.9Mpa)

Setting: 8MPa (with Range spindle) 0.9MPa (with **Differential spindle**)

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.

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.

2. Pressure difference is adjustable

抽量量量量量量量

电话: (021) 56325599 56983311 69927271

传真: (021) 69927273 邮编: 201802

网址: <u>Http://www.shyuanyi.com</u>

Fax:: (021) 69927273

Tel: (021) 56325599 56983311 69927271

Address: NO. 46, Lane 300, Shunda Road, Nanxiang Town, Jiading District, Shanghai, China

PostCode:: 201802 Mail: 6369039@gg.com



Shanghai YuanYi Control Factory Co., Ltd.

Example3:

Choose Cat. No.0806700

Desired: Lower switching point 5MPa
Upper switching point 8MPa
(Switching pressure difference=3Mpa)

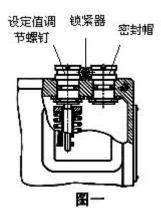
Setting: 5MPa (with **Range spindle**) 3MPa (with **Differential spindle**)

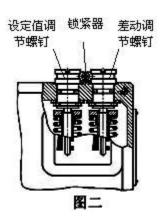
Use Range spindle to set the upper or lower switching point on design with fixed switching pressure difference. The opposite one is determined by the fixed switching pressure difference.

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.

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.





地址: 上海市嘉定区南翔镇顺达路 300 弄 46 号 电话: (021) 56325599 56983311 69927271

传真: (021) 69927273 邮编: 201802

网址: <u>Http://www.shyuanyi.com</u>

Address: NO. 46, Lane 300, Shunda Road, Nanxiang Town, Jiading District, Shanghai, China

Tel: (021) 56325599 56983311 69927271

Fax:: (021) 69927273 PostCode:: 201802 Mail: 6369039@qq.com