

Description	Adjustable pressure switch for monitoring pressure, vacuum and differential pressure. From the 6 bar device on two turns of the adjusting knob are necessary for the whole adjustment range, so the scale on the knob is inappropriate.		
Media	compressed air, non-corrosive gases or liquids	Overpressure	see chart
Switch contact	SPDT switch with silver contact, optionally gold contact	Hysteresis	see chart
Contact load	2 A at 24 V DC, 6 A at 250 V AC	Vibration resistance	20 g
Electrical connector	AMP spade terminal, 6.3 x 8 mm, according to DIN 46244	Switching time	30 ms
Life cycle	10 ⁶ switching cycles	Protection class	IP 65 w/ coupling socket
Certifications	VDI, TÜV design test, optionally Atex		
Mounting position	any, but indication needed for switch point < 100 mbar		
Temperature range	-20 °C to 85 °C / -4 °F to 185 °F for NBR/Buna-N, EPDM and polyamide, up to 130 °C / 266 °F for FKM		
Material	Body: Zytel, a high-quality polyamide Elastomer: NBR/Buna-N, optionally EPDM, FKM or special FKM (saturated steam-resistant) Pressure connection: brass, at DSP-W polyamide, optionally stainless steel or PVDF		

Dimensions	Overpressure protection	hysteresis max.	Measurement range	Order number
B Ø	< bar	mbar / bar	mbar / bar	
mm mm				

Pressure switch G ¹ / ₄ male, for low pressure				wetted sections: brass and NBR/Buna-N, scale toleranz 10%	DSP-D
68	45	0.5	3 mbar	5 ... 20 mbar	DSP-DB2
		0.5	5 mbar	10 ... 50 mbar	DSP-DB5
		0.5	10 mbar	25 ... 100 mbar	DSP-DC1
		1.0	20 mbar	50 ... 250 mbar	DSP-DC2
		1.0	50 mbar	100 ... 500 mbar	DSP-DC5
		10	150 mbar	0.25 ... 1.0 bar	DSP-D01
		10	250 mbar	0.5 ... 1.5 bar	DSP-D02
		10	500 mbar	1 ... 3.0 bar	DSP-D03
		25	0.5 / 2 bar*	1 ... 6.0 bar	DSP-D06
		25	0.5 / 2 bar*	4 ... 9.0 bar	DSP-D09
		25	0.5 / 2 bar*	7 ... 12 bar	DSP-D12

Pressure switch G ¹ / ₄ male				wetted sections: brass and NBR/Buna-N, scale toleranz 10%	DSP-V
68	45	0.5	3 mbar	-5 ... -20 mbar	DSP-V02
		0.5	5 mbar	-10 ... -50 mbar	DSP-V05
		0.5	10 mbar	-25 ... -100 mbar	DSP-V10
		0.5	20 mbar	-50 ... -125 mbar	DSP-V12
		1.0	25 mbar	-75 ... -200 mbar	DSP-V20
		1.0	30 mbar	-100 ... -300 mbar	DSP-V30
		1.0	75 mbar	-200 ... -500 mbar	DSP-V50
		1.0	75 mbar	-300 ... -700 mbar	DSP-V70

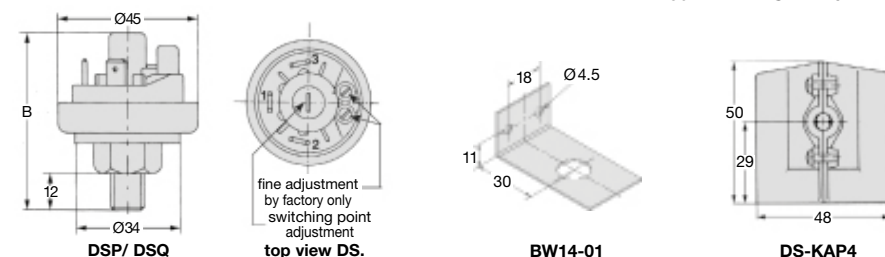
Differential press. switch, nipple Ø 6.5				wetted sections: polyamide and NBR/Buna-N, scale toleranz 10%	DSP-W
77	45	0.1	3 mbar	5 ... 20 mbar	DSP-W20
		0.1	5 mbar	10 ... 50 mbar	DSP-W50

Special options, add the appropriate letter

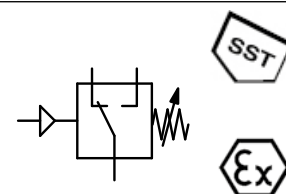
factory-set pressure				DSP-...
G¹/₈ male	pressure port thread,	(not for DSP-W)		DSP-...1
stainless steel port	pressure port thread, 1.4401,	(not for DSP-W)		DSP-...S
FKM elastomer	max. 130 °C / 266 °F			DSP-...V
EPDM elastomer				DSP-...E
increased overpressure	max. 4 bar for pressure measurement range < 1 bar			DSP-...U
gold contact	max. 24 V AC, 100 mA			DSP-...G
Ex-i-Atex	II 1/2G Ex ia IIB T4 and II 1/2G Ex ia IIC T4			DSP-...EX
Ex-i-Atex	II 1/2G Ex ia IIB T4 and II 1/2G Ex ia IIC T4			DSP-...SEX

Accessories, enclosed

mounting bracket	made of steel, including nut	for G ¹ / ₄	BW14-01
protection cap	angular, cable feedthrough Ø 5 mm	IP44	DS-KAP4
	angular, high-strength cable gland Pg 9	IP54	DS-KAP5
		IP65	DS-KAP6



* 0.5 bar at the beginning, 2 bar at the end of the pressure range



5...20 mbar / 12 bar
-5...-20 / -700 mbar



DSP-D09

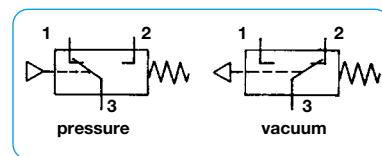


DSP-W

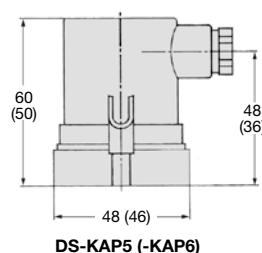


DS-KAP5

DS-KAP4



pin configuration



DS-KAP5 (-KAP6)