

Differential pressure switches JDW-3 ... 10 / JDL-109 ... 117



Technical data		Application
JDW-3 / -5 / -10		<p>For the supervision of overpressure, differential pressure or negative pressure levels in airflows or non-aggressive, non-combustible types of gas. Also applicable for the supervision of pressures in exhaust airflows, airflows produced by fans or for use as flow monitor for the protection of electrical coil heating systems, the supervision of filters or for air pressure deficiency protection purposes or use as adaptive constraint control.</p> <p>JDW- ...: Delivered without installation bracket. Bracket can be fastened directly by means of two screws. Delivery also possible with installation bracket JZ-10 in already attached condition (optional).</p> <p>JDL ...: Delivered with installation bracket JZ-10 in already attached condition.</p> <p>Note: The gold layer on the contacts will, in the event the differential pressure switches a voltage > 24 V and a current > 0.1 A, burn off. Any time thereafter, the device can only be operated at exactly this or at a higher level of power.</p>
Switching capacity:	1.5 (0.4) A, 12–250 V~ 1 (0.2) A, 12–24V~ / =	
Contact:	changeover contact (gold contact), terminal screws	
Degree of protection:	IP 54	
Protection class:	II	
Ambient temperature:	–15 ... +80°C	
Pressure connection nozzle:	6.2 mm	
Colour:	black	
JDL-109 / 113, JDL-111, JDL-112 / 115–117		<p>Note: The hose set is not included in the scope of the delivery and needs to be ordered separately.</p>
Switching capacity:	5 (1) A, 12–250 V~ 1 (0.2) A, 12–24 V~ / =	
Contact:	changeover contact (gold contact)	
Degree of protection:	IP 54 (JDL-109 / 113: IP 20)	
Protection class:	II	
Terminal screws:	JDL-111, JDL-112 / 115 ... 117	
Cable lug connector:	JDL-109 / 113	
Ambient temperature:	–15 ... +80°C	
Pressure connection nozzle:	6.2 mm	
Colour:	black	

Pressure conversion table

	Pa	kPa	bar	mbar	mWs
1 Pa =	1	0,001	0,00001	0,01	0,000101971
1 kPa =	1,000	1	0,01	10	0,101971
1 bar =	100.000	100	1	1,000	10,1971
1 mbar =	100	0,1	0,001	1	0,0101971
1 mWs =	9.806,65	9,80665	0,0980665	98.0665	1

Type	Item No.	Setting range	Switching difference dependent on setting range	Max. pressure	PG
JDW-3	H 531002	20 ... 330 Pa	8 ... 20 Pa	5,000 Pa	G
JDW-5	H 530996	30 ... 500 Pa	10 ... 25 Pa	5,000 Pa	G
JDW-10	H 530997	400 ... 1.600 Pa	30 ... 60 Pa	5,000 Pa	G
Type	Item No.	Setting ex factory or setting range	Switching difference dependent on setting range	Max. pressure	PG
JDL-109	H 530959	exempt from silicone 20 Pa (ex factory)	10 Pa	15,000 Pa	G
JDL-111	H 5309098	exempt from silicone 20 ... 300 Pa	10 ... 15 Pa	15,000 Pa	G
JDL-112	H 5309100	exempt from silicone 40 ... 600 Pa	22 ... 33 Pa	30,000 Pa	G
JDL-113	H 530998	40 Pa (ex factory)	15 Pa	5,000 Pa	G