CE

Pressure switches for air DL..K

- Precision differential pressure switches
- Monitoring of air, flue gas and other non-flammable gases
- High switching point stability
- Switching point selection via hand wheel
- Screw terminals for electrical connections
- Flexible mounting options
- All connections accessible from one side
- EC type-tested and certified

4.2.1.6 Edition 2.04 GB

Easy-to-install connections, accessible from one side.

Application

Pressure switches for air DL..K can be used as excess pressure, negative pressure or differential pressure switches for air, flue gas and other non-flammable gases. They monitor extremely slight pressure differences and trigger switch-on, switch-off or switch-over operations if a set value is reached.

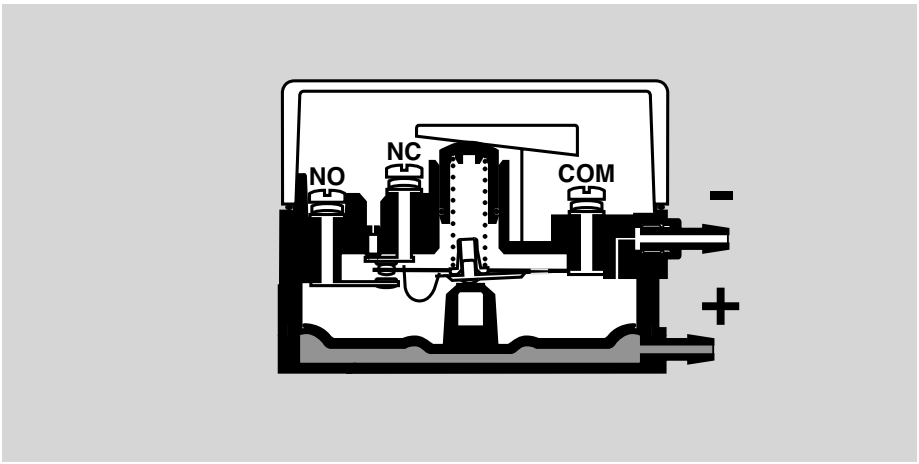
Fields of application include fan monitoring on calorific value boiler units or on atmospheric wall-mounted units with flue gas fan, fan monitoring and filter monitoring on intake and extract ventilation systems, on air-conditioning systems, in laboratories and in kitchens, frost-protection control on heat exchangers and closed-loop control of butterfly valves for air and fire dampers for instance.

The pneumatic and electrical connections are accessible from the same side in order to ensure space-saving installation.

Pressure switch for fan monitoring in laboratories.

DL..K for filter monitoring in kitchens.

Example applications

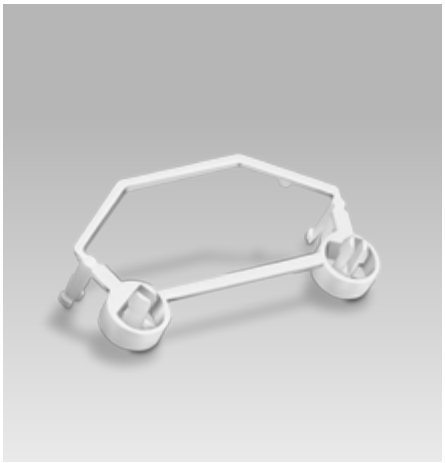


Excess pressure measurement
For instance for checking fan function.

Negative pressure measurement
For instance for monitoring air locks and checking fan function.

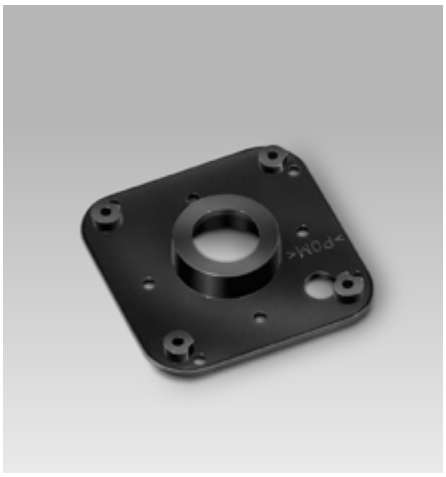
Differential pressure measurement
For instance for safeguarding an air flow rate and for monitoring filters and fans.

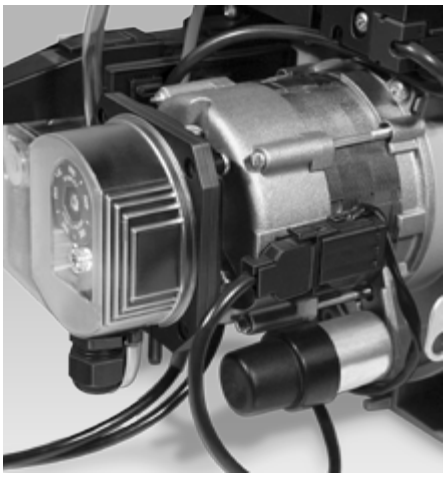
Simple mounting
By means of two screws on the mounting plate or air duct.



Mounting without the need for tools or screws
Optional S-clip for fast installation and removal of the pressure switch. Only two holes in the mounting plate or air duct are required for secure mounting.

Rugged, locked mounting
Optional, L-shaped or Z-shaped angle bracket for fast installation and removal with diverse mounting options, even with only one screw. The angle bracket increases the distance between pressure switch and mounting plate and protects against hot mounting plates.





Mounting directly on the fan motor

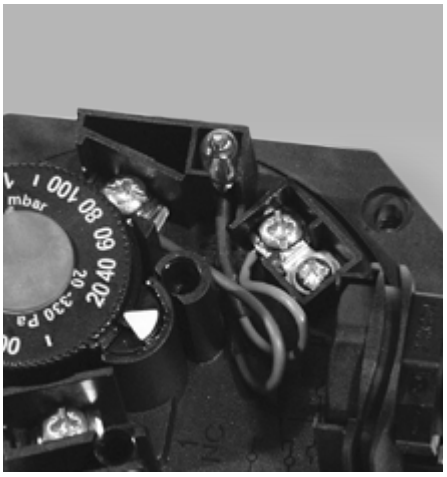
Optional motor flange for space-saving installation of the pressure switch. It is not necessary to drill holes for mounting.

Protection against pressure surges

Optional damping nozzle for compensating for pressure fluctuations and pressure surges, e.g. a brief pressure occurs in the air supply line when igniting a burner.

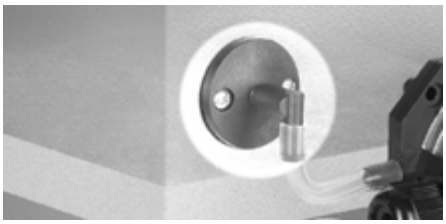
Clearer handling in complex installations

Optional scale marking, e.g. for pressure switches with the same switching point setting. Can simply be plugged on. In various colours.



Easier diagnosis and maintenance

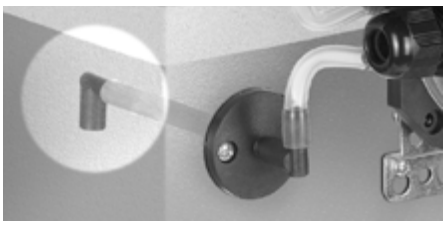
Red pilot lamp, green pilot lamp or red-green LED to indicate the switching status of the pressure switch. Optional mounting hardware set.



Safe, no-pressure-loss connection with optional set of tubes

Duct connection flange and angular hose connector for no-kink connection of pressure switch and pressure measuring point.

Add-ons for use on insulated and lagged ducts.



Angle connector for boosting air streams which are too low for the adjusting range of the pressure switch.

Technical data

Type	Adjusting range Pa	Switching hysteresis Pa
DL 3,5K	30– 350	10– 20
DL 4,5K	30– 500	12– 30
DL 8K	50– 800	20– 40
DL 11K	100–1100	20– 40
DL 16K	400–1600	30– 60
DL 24K	200–2400	35– 75
DL 40K	500–4000	60–100

Microswitch to EN 61058-1,
Switching capacity:
DL..K: 24 V (min. 0.05 A) to 250 V AC (max. 5 A, at cos φ 0.6 = 1 A)
DL..KG: 12 V (min. 0.01 A) to 250 V AC (max. 5 A, at cos φ 0.6 = 1 A)
12 V (min. 0.01 A) to 48 V DC (max. 1 A)

If the DL..KG has switched a voltage > 24 V and a current > 0.1 A once, the gold plating on the contacts will have been burnt through. It can then only be operated at this power rating or higher power rating.

Contact gap < 3 mm (μ).

Line entrance: M16 × 1.5.

Enclosure to IEC 529: IP 54.

Safety class II to VDE 0106-1.

Diaphragm:
Tempered LSR diaphragm system.

Max. inlet pressure p_e or differential pressure: 5000 Pa.

Ambient temperature:
-15 to +85°C.

Storage and transport temperature:
-40 to +85°C.

Installation position: Arbitrary.

Certification

EC type-tested and certified pursuant to
- Gas Appliances Directive (90/396/EEC) in conjunction with EN 1854,
- Low Voltage Directive (73/23/EEC) in conjunction with the relevant standards.

CE

Maintenance

We recommend a function check once a year.

Selection

DL..K: Air pressure switch for monitoring non-flammable gases

Order example
DL 8KG

	3,5	4,5	8	11	16	24	40	K	G
DL	●	●	●	●	●	●	●	●	○

Type

Adjusting range:
30– 350 Pa = 3,5
30– 500 Pa = 4,5
50– 800 Pa = 8
100–1100 Pa = 11
400–1600 Pa = 16
200–2400 Pa = 24
500–4000 Pa = 40

Screw terminals, tube connections and setting hand wheel = K

Gold contacts = G

● = standard
○ = available

Detailed information on this product

www.kromschroeder.com

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