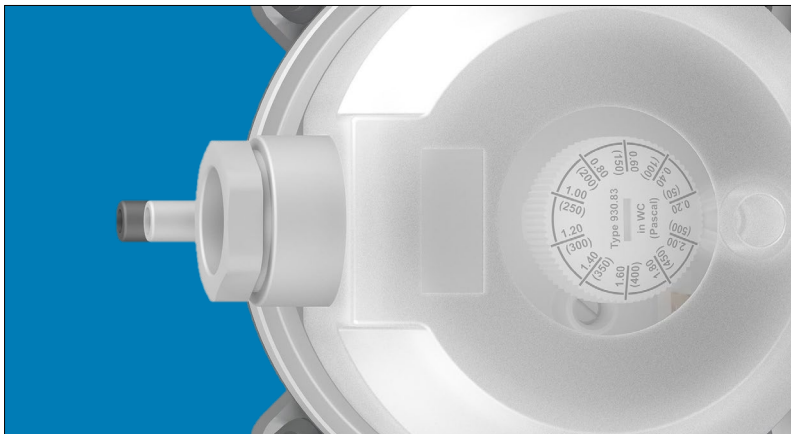


Beck.

The adjustable Differential pressure switches Climair® with UL approval



Differential pressure switches 930.8x Climair®

with UL approval



Applications

Adjustable differential pressure switch for monitoring overpressure, vacuum and differential pressure of air or other non-combustible, non-aggressive gases.

Possible fields of application include:

- Monitoring air filters and ventilators
- Monitoring industrial cooling-air circuits
- Overheating protection for fan heaters
- Monitoring flows in ventilation ducts
- Controlling air and fire-protection flaps
- Frost protection for heat exchangers

Versions

The switching pressure can be adjusted without a pressure gauge using a scaled adjustment knob. Deviation $\leq \pm 15\%$, min. ± 10 Pa.

Type	Adjustment range from to	Switching differential*	Repeatability of the switching pressure
930.80U	20 200 Pa	10 Pa	$\pm 5\%$, min. ± 5 Pa
930.80BU	20 300 Pa	10 Pa	$\pm 5\%$, min. ± 5 Pa
930.84U	30 400 Pa	15 Pa	$\pm 5\%$, min. ± 5 Pa
930.83U	50 500 Pa	20 Pa	$\pm 2.5\%$, min. ± 5 Pa
930.85BU	100 1000 Pa	50 Pa	$\pm 2.5\%$, min. ± 5 Pa
930.85U	200 1000 Pa	100 Pa	$\pm 1\%$, min. ± 5 Pa
930.86U	500 2500 Pa	150 Pa	$\pm 1\%$
930.87U	1000 4000 Pa	250 Pa	$\pm 1\%$
930.87BU	1000 5000 Pa	250 Pa	$\pm 1\%$

* typically, at beginning of setting range.

Switching pressure specifications apply to vertical installation which is also the recommended position with pressure-pipe connections pointing downwards. If the switches are installed horizontally with the tab terminals uppermost, the switching values are approx. 20 Pa higher.

Maximum operating pressure

10 kPa for all pressure ranges.

Medium

Air, non-combustible and non-aggressive gases.

Temperature range

Medium and ambient temperature from -20°C to $+60^{\circ}\text{C}$.
Storage temperature from -40°C to $+85^{\circ}\text{C}$.

Diaphragm material

Silicone, free of gas emissions.
Other materials available on request.

Pressure connections

2 plastic pipe connection pieces (P1 and P2), external diameter 6.0 mm:
P1 for connection to higher pressure (marked +).
P2 for connection to lower pressure (marked -).

Housing materials

Switch body and cover of plastic.

Weight

150 g.

Life

Mechanically more than 10^6 cycles.

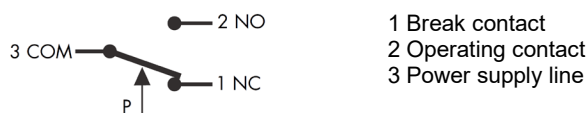
Electrical rating

Standard version: max. 1.0 A (0.4 A) / 250 VAC / 50-60 Hz.
Low-voltage version: max. 0.1 A / 24 VDC.

Electrical connection

Tab terminals 6.3x0.8 mm in accordance with DIN 46244 or push-on screw terminals.

Arrangement of contacts



Protection

IP54; IP65

Conformity

CE; ANSI; UL508; CSA C22.2#14

Accessories

See order matrix.

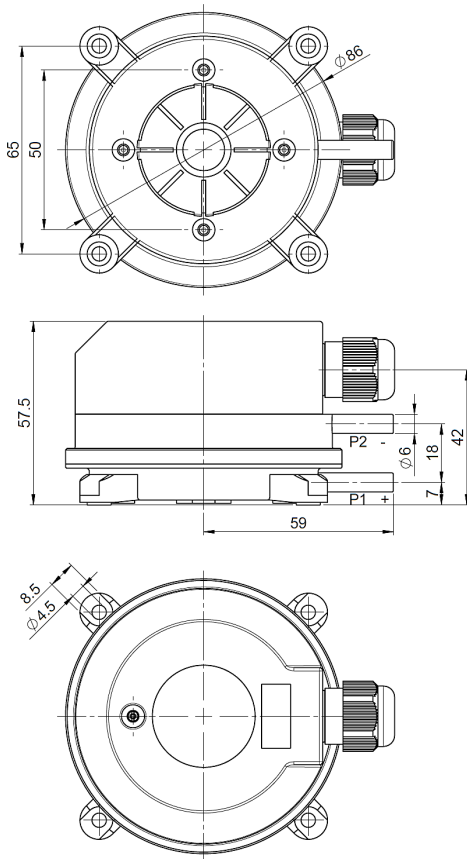
Order matrix		930.8	X	U	X	2	X	X	X	X
Pressure ranges	20 to 200 Pascal (0.2 to 2.0 mbar)	0								
	20 to 300 Pascal (0.2 to 3.0 mbar)	0B								
	30 to 400 Pascal (0.3 to 4.0 mbar)	4								
	50 to 500 Pascal (0.5 to 5.0 mbar)	3								
	100 to 1000 Pascal (1.0 to 10.0 mbar)	5B								
	200 to 1000 Pascal (2.0 to 10.0 mbar)	5								
	500 to 2500 Pascal (5.0 to 25.0 mbar)	6								
	1000 to 4000 Pascal (10 to 40 mbar)	7								
	1000 to 5000 Pascal (10 to 50 mbar)	7B								
Switching contacts	gold-plated for low voltages, screw terminals enclosed			1						
	up to maximum 1.0 A (0.4) / 250 VAC, 50-60 Hz, screw terminals enclosed			2						
	up to maximum 1.0 A (0.4) / 250 VAC, 50-60 Hz with tab terminals 6.3x0.8 mm			3						
	gold-plated for low voltages with tab terminals 6.3x0.8 mm			4						
Fitting method	mounted directly without bracket				2					
Adjustment knob	scale in mbar					1				
	scale in Pascal					2				
	scale in Pascal and inWC					3				
IP protection category	IP54 with cable conduit M20x1.5						2			
	IP54 with cable conduit NPT1/2						3			
	IP54 with cap nut conduit AF20						5			
Packaging	bulk packed, 45 pcs. per carton							1		
	bulk packed, folding boxes included							2		
	individually boxed							3		
Accessories	without accessories								1	
	with S-shaped metal mounting bracket 6402								2	
	with L-shaped metal mounting bracket 6401								3	
	with Climaset® 6555								4	
	with Climaset® 6550								5	
	with S-shaped metal mounting bracket 6402 and Climaset® 6555								6	
	with S-shaped metal mounting bracket 6402 and Climaset® 6550								7	
	with L-shaped metal mounting bracket 6401 and Climaset® 6555								8	
	with L-shaped metal mounting bracket 6401 and Climaset® 6550								9	
	with S-shaped snap-on plastic bracket 6482								A	
	with L-shaped snap-on plastic bracket 6481								B	
	with S-shaped snap-on plastic bracket 6482 and Climaset® 6555								C	
	with S-shaped snap-on plastic bracket 6482 and Climaset® 6550								D	
	with L-shaped snap-on plastic bracket 6481 and Climaset® 6555								E	
	with L-shaped snap-on plastic bracket 6481 and Climaset® 6550								F	
	with Climaset® 6557								G	
	with Climaset® 6556								H	
	with universal bracket set made of stainless steel 6596								I	

Optional Accessories

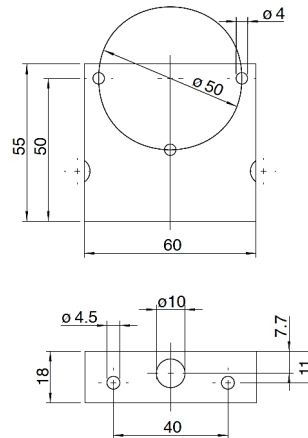
Metal mounting bracket, S-shaped	Article No. 6402
Metal mounting bracket, L-shaped	Article No. 6401
Snap-on plastic bracket, S-shaped	Article No. 6482
Snap-on plastic bracket, L-shaped	Article No. 6481
Universal bracket set made of stainless steel	Article No. 6596
Climaset® consisting of 2 m PVC hose and two plastic tubes	Article No. 6555
Climaset® consisting of 2 m silicone hose and two plastic tubes	Article No. 6557
Climaset® consisting of 2 m PVC hose and two angled metal pipes	Article No. 6550
Climaset® consisting of 2 m silicone hose and two angled metal pipes	Article No. 6556
Set consisting of three push-on screw terminals, bagged	Article No. 6415
Roll with 100 m PVC hose	Article No. 6424
Roll with 100 m silicone hose	Article No. 6425

Dimensional Drawings

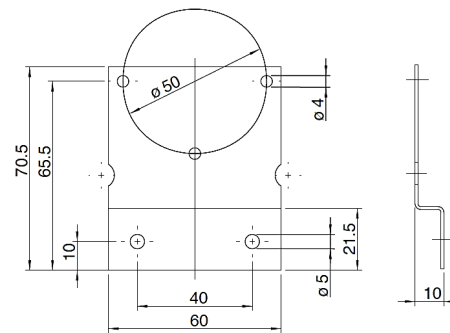
930.8x Climair® UL



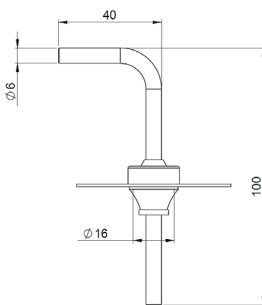
Mounting bracket 6401



Mounting bracket 6402



Climaset® 6550/6556



Climaset® 6555/6557

