



FBA-x

**The adjustable
differential pressure switches.**



Air Differential Pressure Switch

TOTALINE FBA-x

with adjustable switching pressure



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

With this pressure switch the switching pressure can be adjusted without a pressure gauge using a scaled adjustment knob. The switching differential can also be adjusted with a screwdriver.

Type	Adjustment range for upper switching pressure from - to	Switching differential set to	Tolerance for upper and lower switching pressure
FBA-2	20 - 200 Pa	10 Pa	+/- 15 %
FBA-4	30 - 400 Pa	15 Pa	+/- 15 %
FBA-5	50 - 500 Pa	20 Pa	+/- 15 %
FBA-10	200 - 1000 Pa	100 Pa	+/- 15 %

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 AMP connection 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 +85°C.
Storage temperature from -40°C to +85°C.

Diaphragm material

Silicone, tempered at 200°C, 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 made of PA 6.6.
Cover made of PS.

Weight

With cover 150 g
Without cover 110 g

Mechanical working life

Over 10⁶ switching operations.

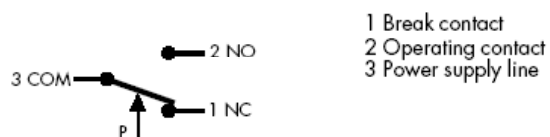
Electrical rating

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

Electrical connections

AMP flat plug 6.3 mm x 0.8 mm in accordance with DIN 46244 or push-on screw terminals.
Cable conduit PG-11 or M20x1.5 with cable strain relief.

Arrangement of contacts



Protection category

IP 54 with cover
IP 00 without cover

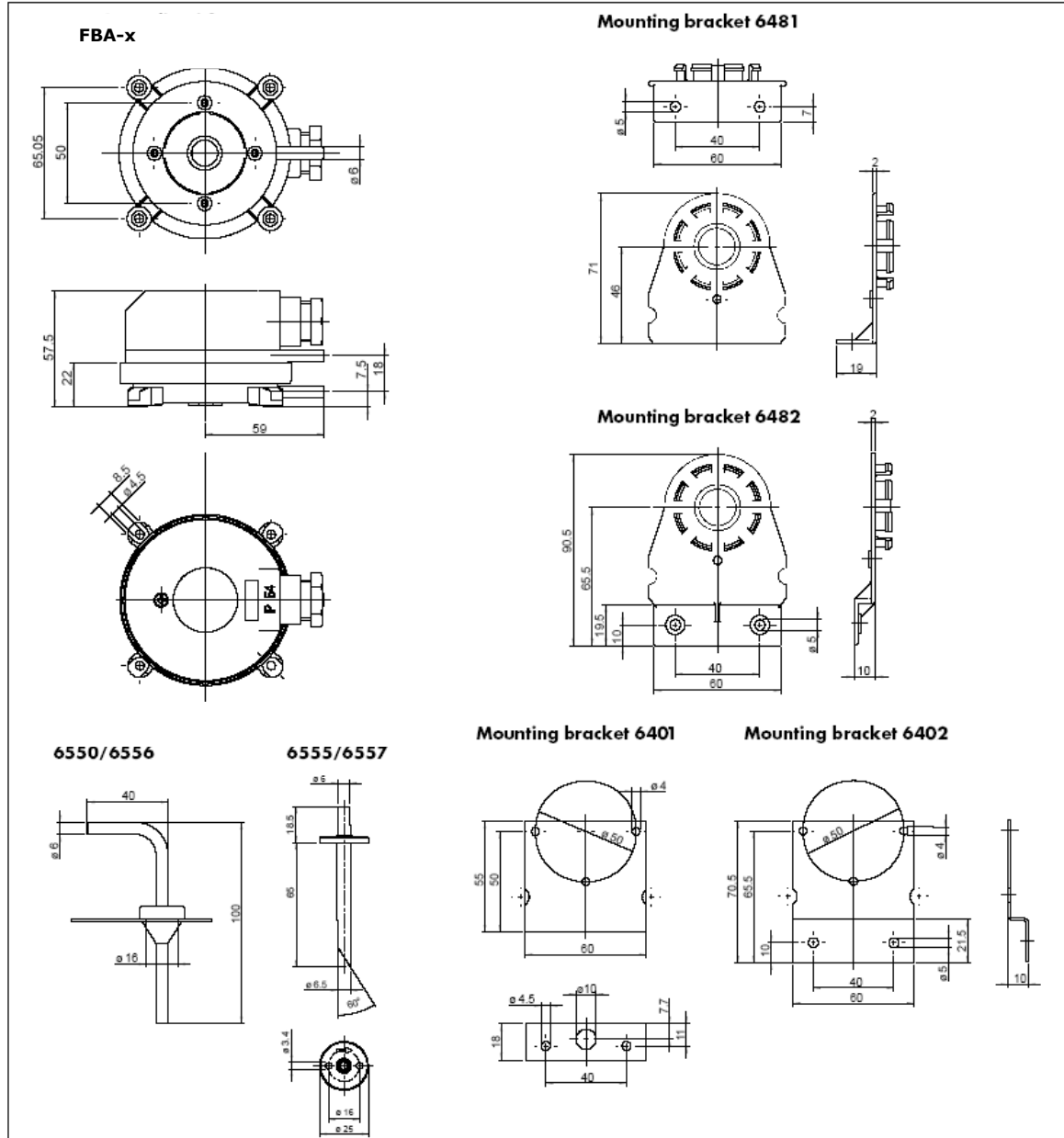
Approvals

CE marking according to EC Low Voltage Directive 73/23/EEC.

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İSTANBUL MARKETİ:

Adres: Yukarı Dudullu Organize Sanayi
Bölgesi 3. Cadde No.12/1
Dudullu - Ümraniye / İSTANBUL
Tel: (0216) 528 69 00
Fax: (0216) 365 43 51

ANKARA MARKETİ:

Adres: Ceyhun Atrı Karasu Caddesi
No.143/21 Balgat / ANKARA
Tel: (0312) 472 43 04 / 05
472 43 10
Fax: (0312) 472 43 75

İZMİR MARKETİ:

Adres: 2823 Sokak No.129B/5
Oto Plaza Halkapınar / İZMİR
Tel: (0232) 459 18 17 Pbx
Fax: (0232) 459 26 29