

# AIR FLOW SWITCHES FF71A

# FF71A

## GENERAL CHARACTERISTICS

Designed to indicate, control and regulate the air flow in air-conditioning systems and where the air cooling or heating is required.

## OPERATION AND INSTALLATION

A flexible blade, of appropriate dimensions, is activated by the air flow, determining an angular displacement of a rod that, mechanically connected to a fluctuating arm, actuates an electric SPDT switch.

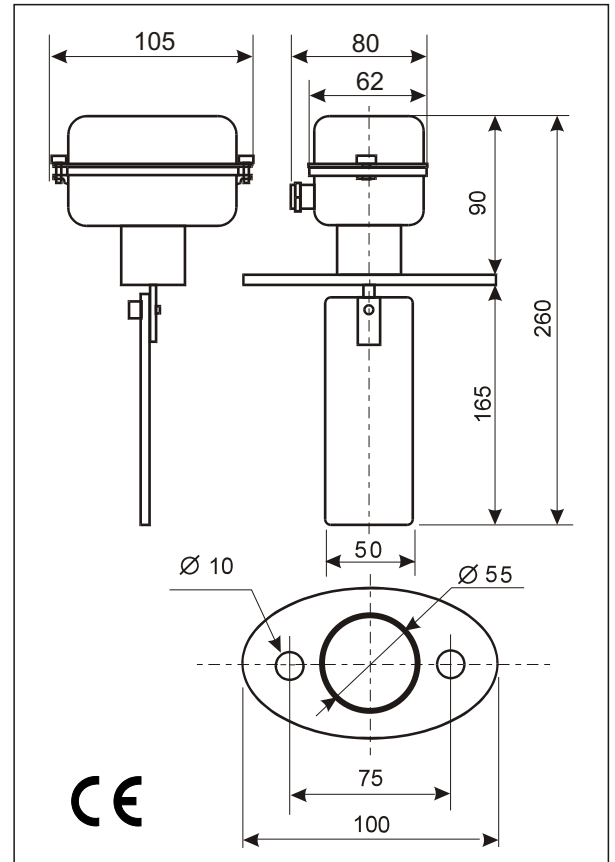
This electric contact can indicate the minimum and maximum air flow, control fans, refrigerating pumps, compressors or interrupt the power to electric heaters, should an abnormal flow exist.

Whenever possible, the air flow switches should be installed on a horizontal part of the piping or ducting. Avoid therefore to place it where air currents are too strong, as well as near bends, fans or at any point where excessive turbulence may occur.

THE ARROW DIRECTION ON THE COVER MUST CORRESPOND TO THAT OF THE AIR FLOW.

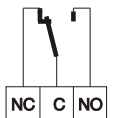
## TECHNICAL CHARACTERISTICS

- Double insulation
- Box in IP54 protection, anti-shock plastic material with built-in screws.
- Flexible blade in AISI 301 stainless steel (dimensions 50 x 165 mm)
- Unipolar SPDT microswitch, in compliance with: ASE-UL-CSA-BS-VDE
- Electric connections on Faston 6.3 (supplied)
- Cable gland in nylon G 3/8" (supplied)
- Calibration screw to adjust the set point
- Working temperature from -20 to 70°C
- PVC flange, 5 mm thick
- In compliance with CEI EN 60730-1

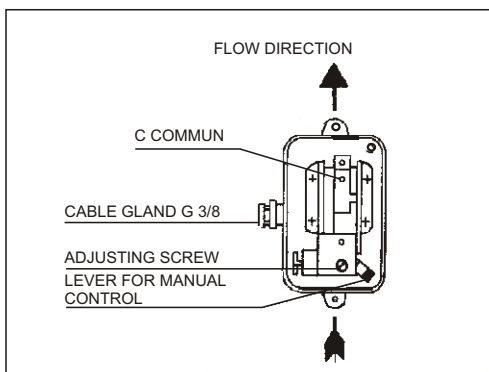


## ELECTRIC DATA

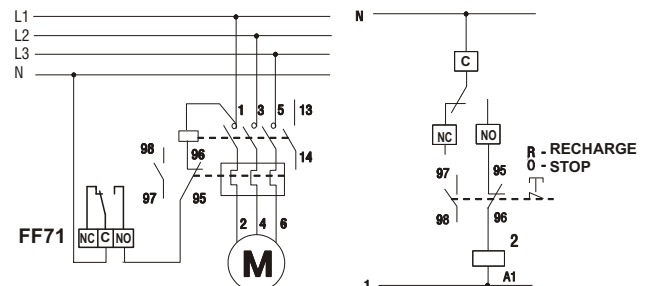
INCREASING FLOW:  
 The C-NC contact opens - The C-NO contact closes  
 DECREASING FLOW:  
 The C-NC contact closes - The C-NO contact opens



|  |          |       |
|--|----------|-------|
| Nominal insulation Voltage             | Ui 380V~ |       |
| Continuative operation nominal Voltage | Ith 10A  |       |
| Ie nominal Voltage:                    | 220V~    | 250V~ |
| Resistive charge                       | AC-12    | 10A   |
| Inductive charge                       | AC-15    | 3A    |
| Continuative Voltage                   | DC-13    | 0,2A  |



Example of electrical connection. Cut off the power supply if the air flow in the pipe is decreasing.



| TYPE  | DUCT SURFACE | MAXIMUM SPEED OF THE INCREASING FLOW | MINIMUM SPEED OF THE DECREASING FLOW |
|-------|--------------|--------------------------------------|--------------------------------------|
|       |              | cm <sup>2</sup>                      | m/sec                                |
| FF71A | 160          | 1,4                                  | 0,6                                  |
|       | 320          | 2,2                                  | 1,2                                  |
|       | 640          | 3                                    | 1,6                                  |
|       | 1280         | 3                                    | 1,7                                  |