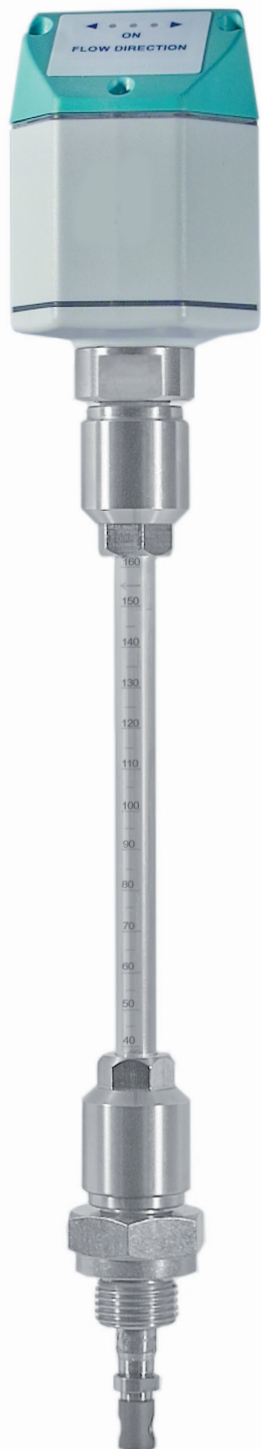


IVA 409 - Flow direction switch for compressed air systems



The thermal flow direction switch IVA 409 with direction indication serves for determination of the flow direction of compressed air and gases especially in closed circular pipelines.

By means of IVA 409 with flow direction indication the flow direction of the compressed air can be determined quickly and safely. Compared with the former mechanical paddle flow switches IVA 409 is able to detect even the smallest changes in the flow direction quickly and without any mechanical movement.

The direction information in form of a potential-free contact (normally closed max. 60 VDC, 0.5 A) is transferred to the flow meters IVA 5xx or to a separate building management system (BMS). Two LEDs show the flow direction.

In connection with 2 flow sensors IVA 5xx incoming and out flowing compressed air in closed circular pipelines can be measured precisely.

Special features:

- detects the smallest changes < 0.1 m/s relative to 20 °C and 1,000 mbar
- no mechanical wear parts
- easy installation under pressure



TECHNICAL DATA IVA 409

Response area detection of direction:	< 0.1 m/s relative to 20 °C and 1000 mbar
Measuring principle:	Calorimetric measurement
Sensor:	Pt 30/ Pt 700/ Pt 330
Measured medium:	Air, gases
Operating temperature:	0...50 °C sensor tube -20...70 °C housing
Operating pressure:	Up to 16 bar
Power supply:	24 VDC, 40 mA
Current consumption:	Max. 80 mA to 24 VDC
Protection class:	IP 54
EMC:	in acc. with DIN EN 61326
Connection:	2 x M12, 5-pin, plug A and plug B
2 potential-free contacts:	2 x U max. 60 VDC, I max 0.5 A (normally closed); on request: Normally open
Housing:	Polycarbonate
Sensor tube:	Stainless steel, 1.4301, length 160 mm, Ø 10 mm, safety ring Ø 11.5 mm, longer sensors on request
Mounting thread:	G 1/2"
Housing diameter:	65 mm
Direction indication:	2 LED'S

DESCRIPTION

Direction switch IVA 409

Mains unit in wall housing for maximum 2 sensors of the series IVA/ IFA 5xx, 100-240 V, 23 VA, 50-60 Hz / 24 VDC, 0,35 A

Connection cable for IVA/IFA series, 5 m

Connection cable for IVA/IFA sensors, 10 m

ORDER NO.

0695 0409

0554 0110

0553 0104

0553 0105