weber
vent-captor

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vent-captor Type 3302.1-

The inline vent-captor type 3302.1- is a compact air mass flow monitor for industrial applications, ideal for small diameters.

The operating principle is based on the calorimetric principle. The inline vent-captor is completely resin encapsulated, thus rugged, shock and vibration proof.

- Small diameters
- Ideally suited to small flow volume
- Temperature compensated
- Compact, no additional parts
- LED - output display
- Rugged industrial version
- ISO 9002 certified manufacturing
- CE approval

Order description

Unit type	(1) Electrical output				(2) Pipe size		
	NPNn.c.	NPNn.o.	PNPn.c.	PNPn.o.	8x1	12x1	18x1,5
3302.-- (1) / (2)	.10	.11	.12	.13	/8	/12	/18

For example: 3302.13 / 18

vent-captor

Type 3302.1
Inline Air flow meter

Typical Application Examples:
vent-captor air flow-monitors are used to monitor air flow in a wide variety of industrial applications for air or gasous medium e. g. air conditioning, ventilation, air filter monitoring, extraction fans, blowers, damper regulators and controlling air flow rates in energy conservation systems. The vent-captor is also ideal for monitoring air flow in thyristor cabinets, motor/generators and shipping containers.

Sensor Data

Measuring range	0.5 - 20 m/s
Set-point adjustment	stepless over total measuring range
Switching hysteresis	< 20%
Switching delay	approx. 2 s when falling below or when exceeding set-point by more than 2 m/s
Repeatability	< 1%
Temperature drift	< 0.3 % / K
Medium	gaseous, all data related to air at normal pressure (1 atm_{abs})
Medium-/ambient temperature	-20 °C to +70°C (-4 °F to +158°F)
Protection class	IP 65 (DIN 40050)
Mechnanical pressure-resistance	10 bar (140 PSI)
Electrical connection	moulded oilflex cable, 3 x 0,5 mm^2, length 2 m

Mechanical Data

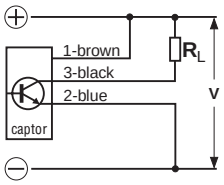
Material: Inline - sensor pipe	stainless steel WN 1.4571 V4A
Sensor probe	Ceramic, platinum with overglaze
Housing	Makrolon
Dimensions (mm) Sensor Pipe	8 x 1, 12 x 1, 18 x 1.5 (diameter x wall thickness)
Housing	65 x 98 x 37
Torsion between pipe and housing or ends of flow-captor pipe during mounting	10 Nm to 40 °C ambient temperature (104 °F)

Electrical Data

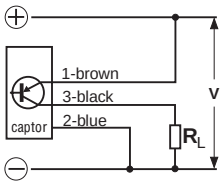
Operating voltage	24 VDC 15%
Current consumption	approx. 100 - 200 mA (max. flow)
Switching current	400 mA
Protective circuit	reverse voltage- , short circuit-, and overload protection (non latching)

Connection Diagrams:

NPN-transistor output



PNP-transistor output



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