

EAF 250

AIR VELOCITY SENSOR

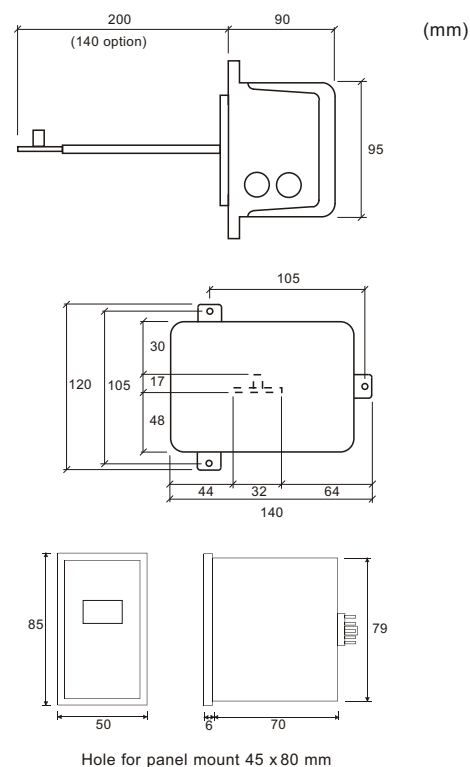


EAF 250 is an electronic air flow sensor used for the monitoring and/or control of the air flow in ducts and similar spaces. The sensor gives a linear output voltage and current signal proportional to air velocity. The sensor part is covered with polyurethane plastic. Measuring range can be adjusted 0-2...15 m/s with trimmer on the instrument unit. Instrument can be panel mounted and fits to a 11-pole relay socket. Sensor and instrument connects electrically with a 3-lead wire.



TECHNICAL DATA

Supply voltage:	24 VAC $\pm 15\%$ 50-60 Hz
Power consumption:	5 VA
Measuring range:	0-2...15 m/s
(Adjustable)	(Factory set, 0-10 m/s)
Outputs:	0-10 Volt (min. 1000 Ohm) 0(4)-20 mA (max 500 Ohm)
Output drift vs.temp:	max 0,1% of reading / °C (Cal.at 20°C)
Repeatability:	max $\pm 0,5\%$ of reading
Linearity:	$\pm (5\%$ of reading + 0,1 m/s)
Temperature range:	0°C to 70°C
Humidity range:	max 90% RH
Housing:	ABS-plastic
	Sensor: blue/black IP44
	Instrument: gray IP20



MOUNTING

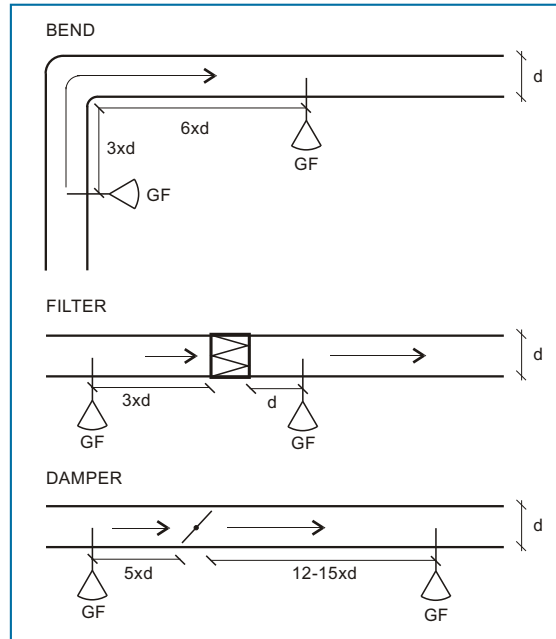
The detecting element should be surrounded by an even air flow and positioned with regard to the direction of flow as shown by the arrows on housing. This means that it may be installed laying or upright, in vertical or horizontal air stream.

Place the detecting element at least as far from the heating and cooling batteries or the humidifying equipment as normal duct temperature detectors. It should furthermore be placed such that the distance to the nearest air disturbance (for example bend, filter or damper) is at least as shown in withstanding figure.

WARNING

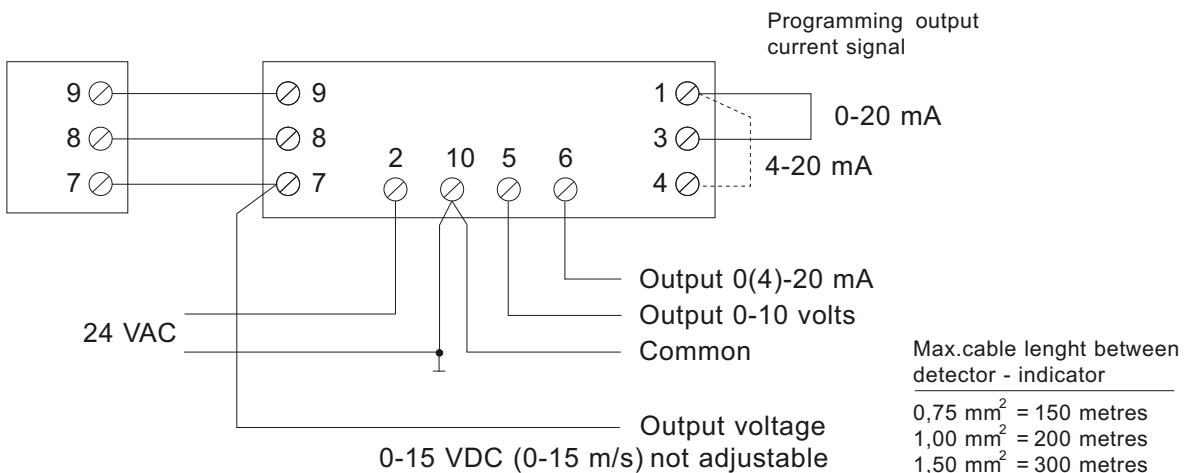
Do not place detecting element before filter and heater in system for inlet air. (Corrosion)

Use corrosion protected type EAF 250E



CONNECTING DIAGRAM

EAF 250



ADJUSTMENT

Range is at delivery factory set to 0 - 10 m/s.

Measuring range can be adjusted from lowest 0 - 2 m/s to highest 0 - 15 m/s with trimmer "Range adjust" on instrument unit. Instrument LCD can indicate ; output signal in % of desired range or actual velocity in m/s.



ELUW ELECTRONIC AB

Industrivägen 11
S-972 54 Luleå

Tel. +46 920 14480
Fax. +46 920 60897

E-mail eluw @ eluw.se

Internet www.eluw.se