

vent-captor 3205.13/.12 S310/45

The vent-captor type 3205.13/.12 S310/45 is used in almost all automation processes and many other industrial applications in which air or other gases must be monitored. The 3205.12/.13 S310/45 offers 2 individually adjustable switching points – so within a selected measuring range, both the falling below or the exceeding of the limit value will be signalled (2-point-controller). The sensor operates according to the calorimetric (thermal) measuring principle - fully electronic and without any mechanically moved parts. The sensor detects the flow velocity of the medium and converts it into electrical signals.

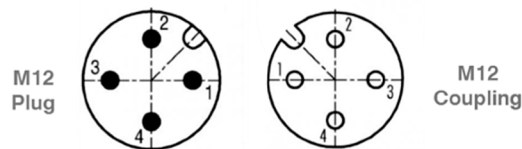
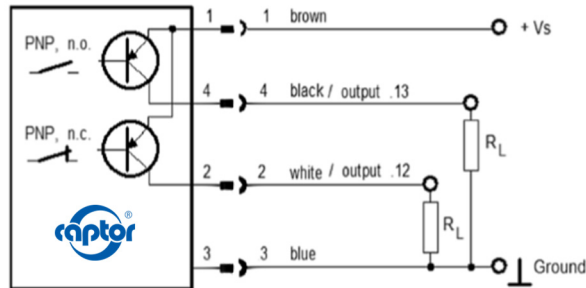


- 2 individually adjustable switching points
- switching points adjustable between 0.1 and 0.7 m/s
- robust stainless steel design (special potting)
- M12 plug version
- precise switching
- temperature-independent
- pressure resistant up to 10 bar
- **ISO 9001:2015**

Technical data		
Type	3205.13/.12 S310/45	
Medium	gaseous (aggressive media on request)	
Sensor data*		
Switching range	Nominal 0.1 – 0.7 m/s (total approx. 0.1 – 1.0 m/s)	
Switching delay	min. 1 sec. to max. 5 sec.	
Hysteresis	2 - 3 cm/s	
Pressure	up to max. 10 bar	
Repeatability tolerance of set-point	< 1 %	
Medium and ambient temperature	-20 °C bis +70 °C (-4 °F to +158 °F)	
Temperature drift	< 0.3 % / K	
Mechanical data		
Protection standard	IP67	
Sensor probe	ceramic with overglaze	
Sensor housing	Ultradur® (PBTP) / V2A	
Electronic housing	aluminium, anodized	
Thread	G 1/2" A	
Electrical connection	optional: 2 m connection cable type 4941 / 4 x 0.5 mm ² with M12-coupling (must be ordered separately)	
Mass	200 g	
Electrical data		
Electrical output	.12	.13
Output flow > set-point	PNP, not energized	PNP, energized
Supply voltage	24 VDC (18 to 30 VDC incl. residual ripple)	
Power consumption	ca. 800 mW to 2.4 W	
Switching current	0 - 400 mA	
Circuit protection	reverse polarity	
Output protection	short circuit and overload, pulsing	
Starting override time	approx. 30 sec. at 0.5 m/s to 5 sec. at 30 m/s set-point	
Display		
during starting override time	2-color LED: green/red	2-color LED: green/red
flow > set-point	LED red on	LED green on
flow < set-point	LED red on	LED green on
Set-point adjustment	LED green on	LED red on
	18 turn potentiometer	

*All data related to air

Connection diagram



Front View onto the pins and sockets

Positioning:

