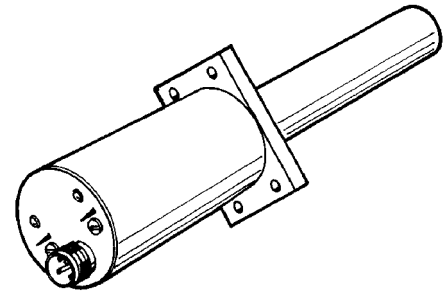


This air flow controller controls two independently adjustable limit values upto a flow velocity of 30 m/s. Short-circuit-proof normally open and normally close outputs as well as two-colour LEDs indicate when the values exceed or fall below the desired range. So troubles such as flow failure, hose rupture and required exchange of filter can be monitored in installations of inflow technique.

Normally open (LED and potentiometer at the left, 20 pitches): output connected through and given green light at min. flow existing; red LED flow failure.

Normally close (LED and potentiometer at the right, 20 pitches): output connected through and LED giving green light at value fallen below the max. flow; red LED = flow too high.



Technical Data

Type	FKM 230.18 GS4	
Art.-Nr.	8041A	
Output	PNP n. o. + n. c.	
Adjusting range normally open	1 - 30 m/s	
Adjusting range normally close	8 - 30 m/s	
Measuring principle	calorimetric	
Response time	< 10 s	
Readiness delay	30 s	
after applying the supply voltage both outputs are connected	during this time both LEDs give green intermittent light.	
Supply voltage	24 V DC +10 / -15%	
Ripple voltage	max. 15%	
Load current max.	0 - 400 mA	
Short-time load current	4 A / 100 ms	
Short circuit protection	yes, pulsing	
No-load current	50 mA	
Voltage drop	1,5 V	
Switching hysteresis	0,5 - 2 m/s	
Ambient temperature	-10 ... +60 °C	
Protection class	IP 65	
Connection	plug Lumberg M12	
Function display	2 LEDs 2-colour	
Housing material	sensor part	plastic
	electronic part with flange	aluminium
Weight	200 g	

The air flow controller is mounted in such a way that the air can flow onto the plane measuring surface (diameter 20 mm) from random direction. For effective temperature compensation the cylindrical part must be exposed to the same ambient temperatures 30 mm upto the measuring surface. Quick changes of temperature can result in misswitchings for a short time.

Diagram of Connections

