

RHEASGARD® KHSSFxx RHEASREG® KHSSWxx

Duct top-hat rail airflow sensor/airflow monitor, electronic, external flow probe incl. mounting flange, with active/switching output



Electronic duct top-hat rail airflow sensor RHEASGARD® KHSSF with active / switching output, housing for installation in distributor boxes or control cabinets with 35 mm mounting rail, external flow probe incl. mounting flange, for determining the flow velocity (0.1...20 m/s). The measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA (Automatic Output Switching).

 $Electronic \ duct \ top-hat \ rail \ airflow \ monitor \ \textbf{RHE} ASREG \textbf{@ KHSSW} \ with \ switching \ output, \ housing \ for \ installation \ in \ distributor$ boxes or control cabinets with 35 mm mounting rail, external flow probe incl. mounting flange, for determining the flow velocity (0.1...20 m/s).

The flow sensors / flow monitors are suitable for monitoring or controlling airflows in ducts, at fans and dampers, for flow-dependent monitoring of humidifiers and electric heating registers according to DIN 57100, Sect. 420, or for use in connection with DDC systems.

Power supply:	24 V AC / DC (± 10%) (KHSSW-W24, KHSSF-W) 230 V AC (± 10%), 50 Hz (KHSSW-W230)				
Current consumption:	tion: approx. 3 VA				
Outputs:	KHSSF-W 0-10 V / 420 mA (via Automatic Output Switching -				
	the unit recognises the required output type				
	and automatically switches to U or I output); 24 V changeover contact (max. 5 A, $\cos \varphi = 1$)				
	KHSSW-W24 24 V changeover contact (max. 5 A, $\cos \varphi = 1$)				
	KHSSW-W230 230 V AC changeover contact (max. 10 A, $\cos \varphi = 1$)				
Data point:	flow velocity [m/s]				
Sensor:	calorimetric, temperature compensated, sensor breakage protection				
Measuring range:	0.120 m/s				
Accuracy:	0.5 m/s + 3 % measured value				
Long-term stability:	± 0.5 % of final value per year				
Reproducibility:	+ 1.0 % of final value				
Switching point:	120 m/s, threshold can be adjusted via potentiometer				
Switching hysteresis:	2.0 % of final value				
Warm-up time:	< 2 min				
Response time:	< 5 s				
Start-up override:	60 s (changeover contact switched or 10 V / 20 mA at output,				
Sual v up over riue.	after applying the supply voltage)				
LED operating	Yellow LED off: switching point not reached (contact 5-6 open)				
status indicator:	on: switching point reached (contact 5-6 closed)				
	flashing: start-up override is active				
	Green LED on: Unit is ready for operation				
	flashing: error in sensor or sensor line				
Housing:	PC / ABS (UL94-VO) material, light grey colour, 36 mm (2TE) wide for 35 mm mounting rail,				
	approx. 90 x 36 x 58 mm (H x W x D)				
Probe/sensor:	Polyamide (PA6) material, white colour (blue sensor holder), with torsion protection,				
	\emptyset 12 mm, EL = approx. 20–155 mm, v_{max} = 30 m/s (air)				
Sensor cable:	PVC LiYY, 3-wire, KL = approx. 2.4 m				
Electrical connection:	0.14–2.5 mm², via screw terminal				
Process connection:	by means of mounting flange with seal				
	(included in the scope of delivery)				
Ambient temperature:	storage -20+50 °C; operation 0+60 °C				
Medium temperature:	0+70 °C				
Permitted humidity:	< 98 % RH, non-precipitating air free of harmful substances				
Protection class:	II (according to EN 60730) with UB = 230 V (KHSSW-W230) III (according to EN 60730) with UB = 24 V (KHSSW-W24, KHSSF-W)				
Protection type:	IP 30 (according to EN 60529) housing IP 20 (according to EN 60529) sensor technology				
	IF 20 taccording to EN 000207 sensor technology				







A

Duct top-hat rail airflow sensor/airflow monitor, electronic, external flow probe incl. mounting flange, with active/switching output



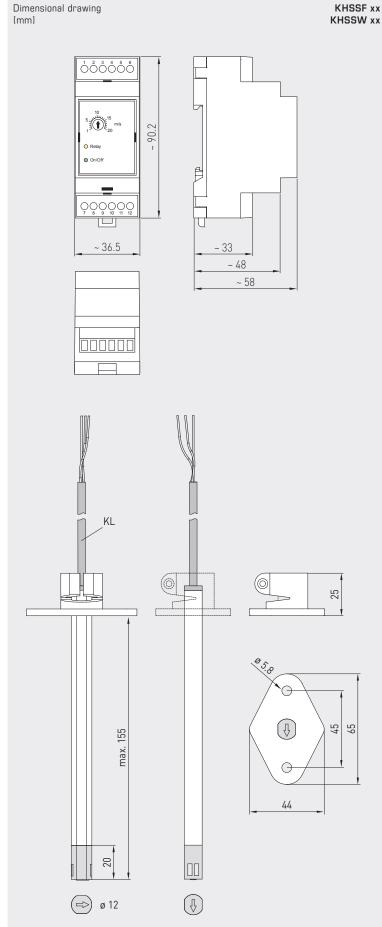


Probe









S+S REGELTECHNIK

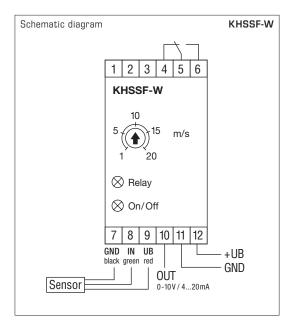
1 +49 (0) 911 / 5 19 47-0



RHEASGARD® KHSSFxx RHEASREG® KHSSWxx

Duct top-hat rail airflow sensor/airflow monitor, electronic, external flow probe incl. mounting flange, with active/switching output

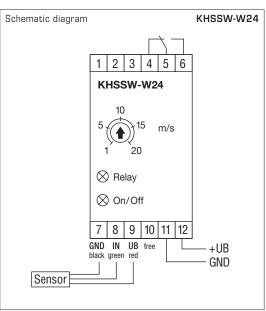




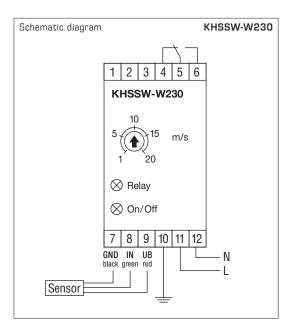


Automatic detection and switching to standard signal 0...10 V or 4...20 mA













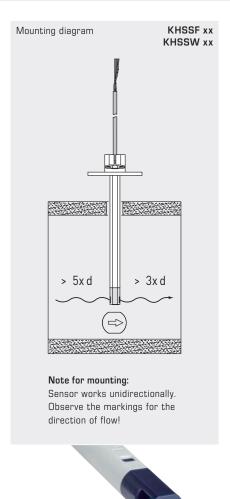




RHEASGARD® KHSSFxx RHEASREG® KHSSWxx A

Duct top-hat rail airflow sensor/airflow monitor, electronic, external flow probe incl. mounting flange, with active/switching output







RHEASGARD®	KHSSF KHSSW	Duct top-hat rail airflow sensor, with active and switching output Duct top-hat rail airflow monitor, with switching output				
Type/WG01	Power supply	Output active	Output switching	ltem no.	Price	
KHSSF		AOS				
KHSSF-W	24 V AC / DC	0-10V/420mA	1 changeover contact	1701-5118-0102-001	352,42 €	
KHSSW						
KHSSW-W24	24 V AC / DC	-	1 changeover contact	1701-5113-0102-001	235,66 €	
KHSSW-W230	230 V AC	-	1 changeover contact	1701-5133-0102-001	235,66 €	
Note:	Changeover contact with automatic reset (relay opens automatically when value falls below the threshold again)					
	AOS (Automatic Output Switching) = patented analogue interface (patent no. DE 10 2015 015 941 B4),					

Rev. 2025 - V13 GB

the unit automatically detects the required output type 0-10~V or 4...20~mA





