RHEASGARD® KLGF
RHEASREG® KLSW

Duct airflow monitors,
including mounting flange, electronic, one-step and two-step,
with active/switching output

S+S REGELTECHNIK

Electronic duct air flow sensor **RHE**ASGARD® **KLGF** with active output, in an impact-resistant plastic housing, optionally with/without display, for determining the flow velocity in m/s.
The measuring transducer converts the measurement signal into a standard signal of 0 - 10 V.

Electronic duct air flow monitor **RHE**ASREG® **KLSW** with switching output (relay one-step or two-step), in a plastic housing, for determining the flow velocity in m/s. Fine adjustment of the measuring range end value by the user is possible with the help of a potentiometer.

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

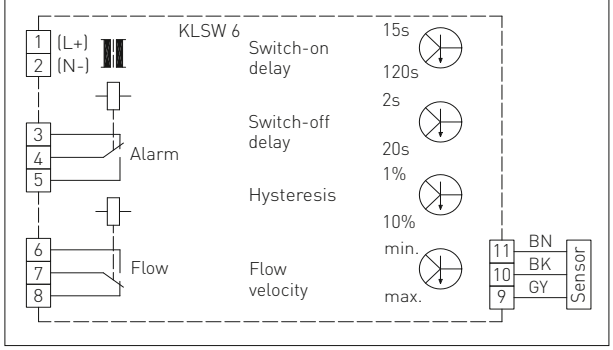
KLSW-xx

KLGF-1
with display

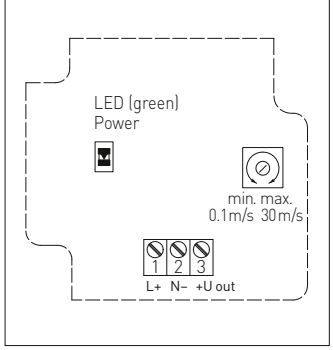
TECHNICAL DATA

Power supply:	24 V AC / DC or 230 V AC +5 / -13 %, 50...60 Hz		
Output:	1 or 2 potential-free relays (changeover contacts), 8 A, max. 2 kW or 0 - 10 V (relative, linearised on request), see table		
Current consumption:	approx. 3 VA		
	KLGF-1 | KLSW-3, KLSW-4	**KLSW-6**	
Measuring range:	0.1...30 m/s	0.1...15 m/s	
Sensitivity:	0.1...30 m/s (adjustable)	0.1...15 m/s	(adjustable)
Switching hysteresis:	2 % (permanently set)	approx. 1...10 %	(adjustable)
Start bridging:	– **| 60 s** / 0 s (adjustable)	approx. 15...120 s	(adjustable)
Switch-off delay:	–	approx. 2...20 s	(adjustable)
Connection cable:	max. 50 m at minimum cross section 1.5 mm² per conductor; avoid laying parallel with mains voltage-carrying lines, or use shielded cables, apply cable screen one-sided		
Ambient temperature:	0...+60 °C at the device; 0...+80 °C medium		
Medium:	pollutant-free, non-precipitating air		
Sensors:	calorimetric, sensor breakage protection, temperature-compensated		
Housing:	plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, colour traffic white (similar to RAL 9016) **KLSW-xx, KLGF-1 with display:** 108 x 70 x 73.5 mm (Thor 2) **KLGF-1 without display:** 72 x 64 x 37.8 mm (Tyr 1), with quick-locking screws (slotted / Phillips head combination)		
Cable connection:	**cable gland**, plastic (M 16 x 1.5; with strain relief, exchangeable, inner diameter 10.4 mm)		
Protective tube:	metal (brass, nickel-plated), Ø 10 mm, nominal length NL = 140 mm		
Process connection:	by mounting flange (included in the scope of delivery)		
Electrical connection:	0.25 - 2.5 mm², via screw terminals		
Protection class:	II (according to EN 60 730) at KLSW 3 (UB = 230 V AC) III (according to EN 60 730) at UB = 24 V		
Protection type:	**IP 65** (according to EN 60 529)		
Standards:	CE conformity, EMC directive 2014 / 30 / EU, low-voltage directive 2014 / 35 / EU		

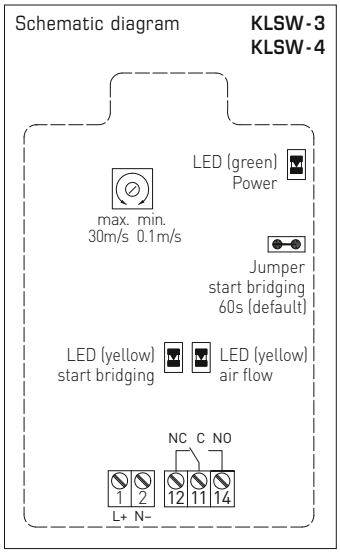
Schematic diagram **KLSW-6**



Schematic diagram **KLGF-1**

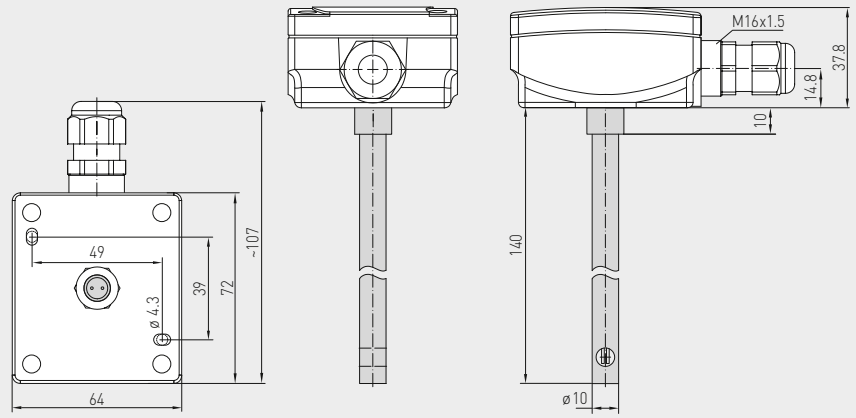


Schematic diagram **KLSW-3**
KLSW-4



Dimensional drawing

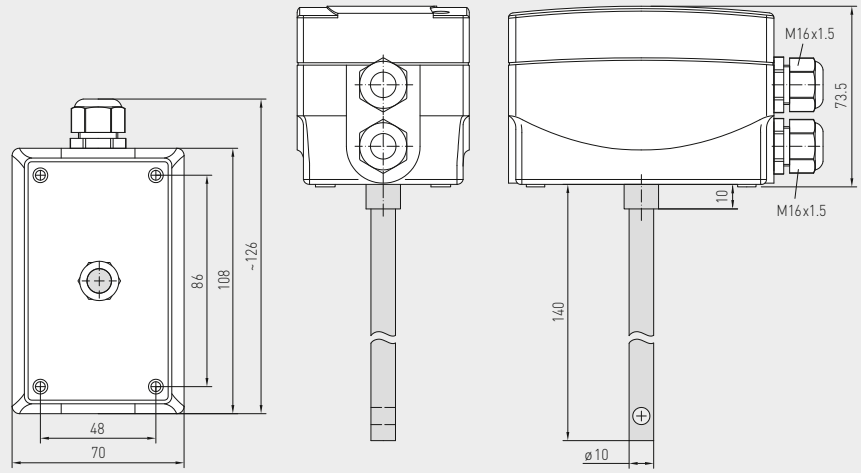
KLGF-1 without display (compact)



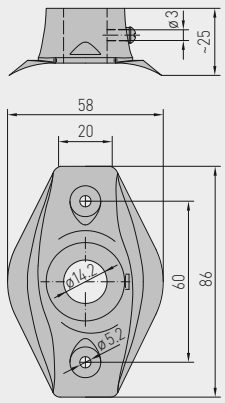
KLGF-1
without display
(compact)

Dimensional drawing

KLSW-xx
KLGF-1 with display



Dimensional drawing **MF-14-K**



RHEASGARD® **KLGF** Duct airflow monitors **RHE**ASREG® **KLSW** Duct airflow monitors, one-step and two-step						
Type / WG01	**Relay (Steps)**	**Power-Supply**	**Output**	**Display**	**Item No.**	**Price**
KLGF						
KLGF 1	–	24 V AC / DC	0-10 V (relative)		1701-3120-1000-000	**263,10 €**
KLGF 1_Display	–	24 V DC	0-10 V (linearised)	■	on request	
KLSW	**one-step**					
KLSW 3	1	230 V AC	1 x Changeover contact		1701-3011-0001-000	**195,19 €**
KLSW 4	1	24 V AC / DC	1 x Changeover contact		1701-3021-0000-000	**195,19 €**
KLSW	**two-step**					
KLSW 6	2	24 V AC / DC	2 x Changeover contact		1701-3022-0000-000	**246,12 €**
Note:	**KLSW 6** is supplied as standard with a **manual reset button**! **Automatic reset** (without reset button)				on request	
ACCESSORIES				**Tube Gland**		
MF-14-K	**Mounting flange**, plastic (included in the scope of delivery)			Ø 14.2 mm	7100-0030-2000-000	**9,10 €**
MF-10-K	**Mounting flange**, plastic			Ø 10.2 mm	7100-0031-1000-000	**9,10 €**
	For further information see last chapter!					