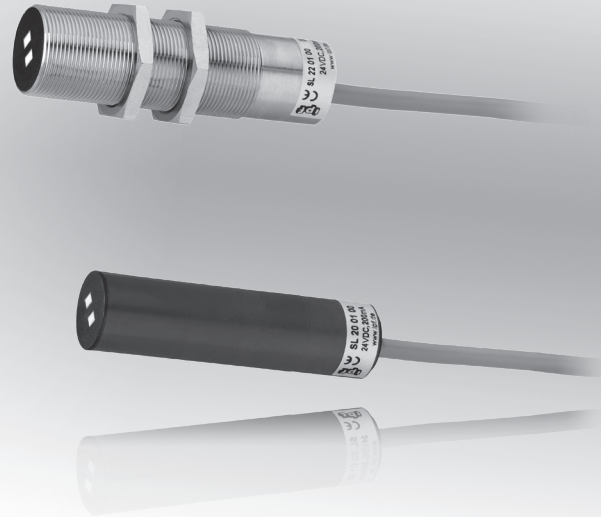


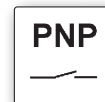
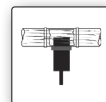
dimensions	M18 x 1 Ø 20mm M22 x 1	
flow	operating range	0.5 to 15m/s

- ✓ **integrated amplifier**
- ✓ **20-turn potentiometer**
- ✓ **LED function display**
- ✓ **fully-electronic operation**
- ✓ **housing made of brass or plastic**



11

fan sensor for monitoring air or gas flow



description

The flow sensor functions according to the calorimetric principle. The measuring probe is heated by a few degrees (Celsius) above the temperature of the medium.

Heat is dissipated by the medium flowing past. The difference in temperature between the medium and the sensor is a measure for the flow condition which occurs.

A corresponding switching signal can be assigned for a specific flow condition using the potentiometer of the integrated amplifier electronics.

In addition, a switch-on delay becomes active for 20 to 40s. This delay depends on the set response sensitivity and ensures that, for example, no fault message is issued when a fan starts up.

When installing, it is essential to ensure that the sensor head is fully surrounded by the medium to be monitored, not only when the medium is at rest but also when it is flowing.

setting instructions:

After presetting the nominal flow, turn the potentiometer to the left limit stop. The LED must light up for at least 5 seconds. After approx. 20 seconds, turn the potentiometer clockwise gradually until the LED just extinguishes. The correct switching point setting is achieved by now turning the potentiometer back counterclockwise by 1 to 1.5 turns.

application examples

- ▶ ensuring a certain flow value for applications with fan controllers
- ▶ continuous presence monitoring of gas or air flow
- ▶ prevention of fan failures

article-no.	SL180100	SL200100	SL220100
operating range ¹	0.5 ... 15m/s	0.5 ... 15m/s	0.5 ... 15m/s

TECHNICAL DATA

operating range ¹	0.5 ... 15m/s	0.5 ... 15m/s	0.5 ... 15m/s
output	pnp, no	pnp, no	pnp, no
operating voltage	24V DC ±20%	24V DC ±20%	24V DC ±20%
output current (max. load)	200mA	200mA	200mA
current consumption (w/o load)	< 70mA	< 70mA	< 70mA
voltage drop (max. load)	< 2V DC	< 2V DC	< 2V DC
readiness delay ²	20 ... 40s	20 ... 40s	20 ... 40s
response time ³	approx. 2s	approx. 2s	approx. 2s
display (signal)	yellow LED	yellow LED	yellow LED
sensitivity adjustment	potentiometer	potentiometer	potentiometer
short-circuit protection	+	+	+
reverse polarity protection	+	+	+
dimensions	M18x1	Ø 20mm	M22x1
length (thread/complete)	60mm/80mm	-/76mm	55mm/76mm
housing material	PBT	nickel-plated brass	nickel-plated brass
material (front cap)	PBT	PBT	PBT
operating temperature	-20 ... +70°C	-20 ... +70°C	-20 ... +70°C
temperature gradient	200K/min	200K/min	200K/min
degree of protection (EN 60529)	IP67	IP67	IP67
connection	2m PVC cable, 3-wire	2m PVC cable, 3-wire	2m PVC cable, 3-wire
mounting accessories	-	collar AS000006	-

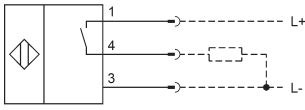
1 With optimum and constant ambient and installation conditions

2 Depends on medium temperature

3 Depends on medium and setting of switching point

connection

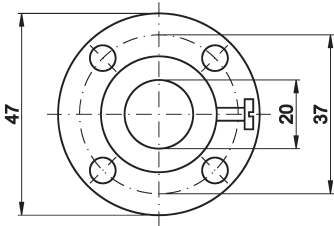
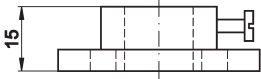
devices with switching output



wire colors:

1	L+	br	brown
4	pnp/no	bl	black
3	L-	bl	blue

collar AS000006



ACCESSORIES

article-no.	description	material
AS000006	collar	plastic

This data sheet only contains the available standard variants. For other output / connection variants, we kindly ask that you contact us.

We are happy to supply the right cable socket for the plug equipment. You will find a list in the “accessories” section of the catalog under **ipf-SENSORFLEX**® “cable sockets” or in the search window on our homepage www.ipf-electronic.com (using the search term “VK”).

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

NOTES

A large grid area for taking notes, consisting of a 20x30 grid of small squares. The grid is empty and occupies the majority of the page.