Technical Datasheet
Sash Position Sensor
SPS100 / SPS200

SCHNEIDER

SCHAKO Group

WHERE TO FIND WHAT

SPS100 / SPS200
Sash Position Sensor

TECHNICAL DATA

Operating voltage	max. 24 V DC
Current consumption	< 5 mA
Working resistance	5 kΩ
Linearity	0.2 %
Rope length SPS100	max. 1 m
Rope length SPS200	max. 2 m
Temperature (storage)	-20 bis +55 °C
Humidity	max. 80 % relative, non-condensing
Protection type	IP 20
Dimensions (L x B x H) SPS100	67 x 53 x 53
Dimensions (L x B x H) SPS200	94 x 68 x 87
Weight SPS100	approx. 260 g
Weight SPS200	approx. 460 g

SPECIAL FEATURES

- With the SPS100 the front sash position is detected with an accuracy higher than 2 mm, with the SPS200 with an accuracy of higher than 4 mm (0.2 %)
- Simple installation
- Stable actual value signal
- Suitable for all types of laboratory fume cupboards

PRODUCT DESCRIPTION

The sash position sensor SPS100 / SPS200 developed by SCHNEIDER has been especially designed for the precise, reproducible and stable detection of the vertical front sash position.

The rope of the sash position sensor SPS100 has a throw length of one meter, SPS200 two meters.
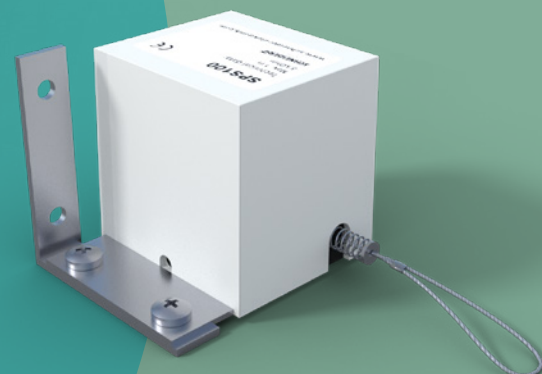
> **IMPORTANT!**
>
> The product is exclusively intended for use in connection with the devices of SCHNEIDER Elektronik.

FUNCTIONAL DESCRIPTION

The sash position sensor provides a sash voltage signal as a function of the vertical front sash position. This voltage signal is absolutely stable and interference-free, making it ideal as command signal for a laboratory fume cupboard controller by SCHNEIDER. Likewise, the sash position sensor can be used in place of limit switches in a laboratory fume cupboard monitor.

Application areas

- Standard laboratory
- Clean room (with air lock)
- Animal laboratory
- Training laboratory
- Nuclid laboratory

ORDER CODE

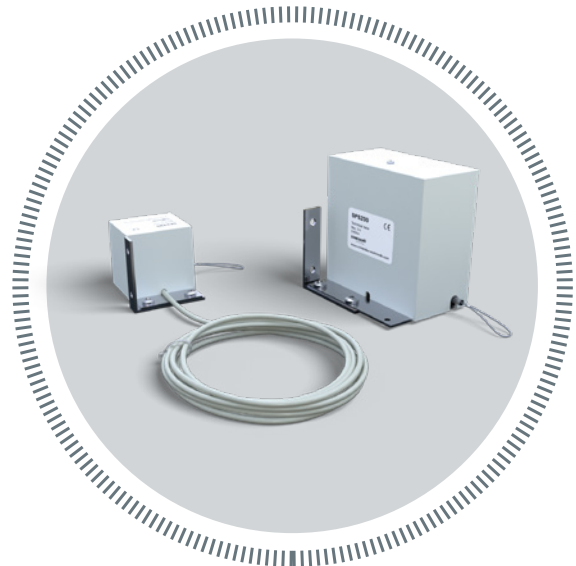| 01	02
Type	Terminal marking

01 – Type

SPS100: Sash position sensor, rope length 1 meter, with a connecting cable of 3 meters, for standard fume cupboards

SPS200: Sash position sensor, rope length 2 meter, with a connecting cable of 3 meters, for low-level fume cupboards and walk-in fume cupboards

02 – Terminal marking

5:        For the product series FC500 and SC500

6:        For the product series FC600 / SC600 and iCM500

7:        For the product series FC700

E: Spare part for all product series, terminal blocks being supplied loose
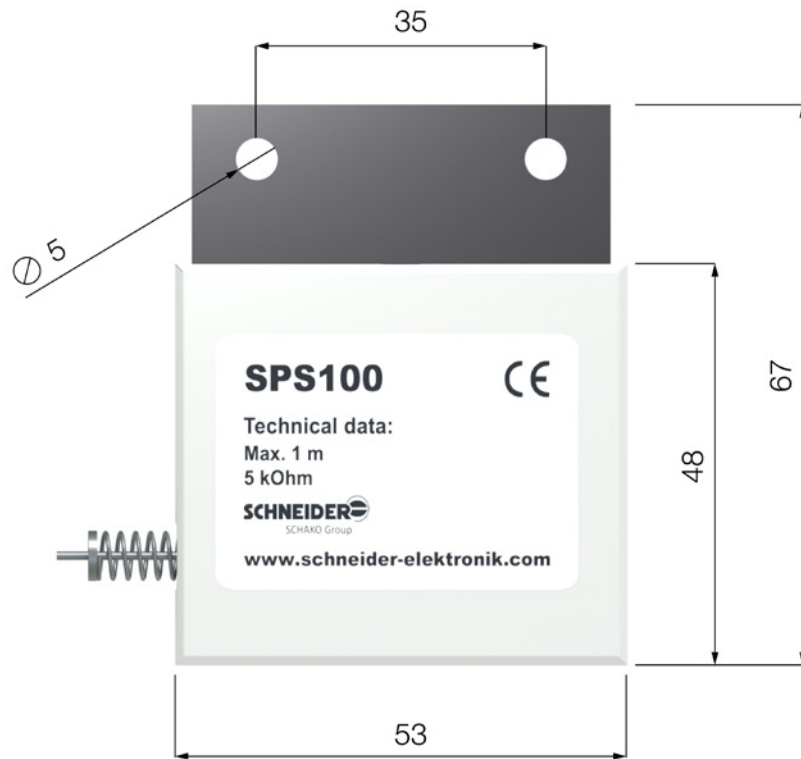
Order example:

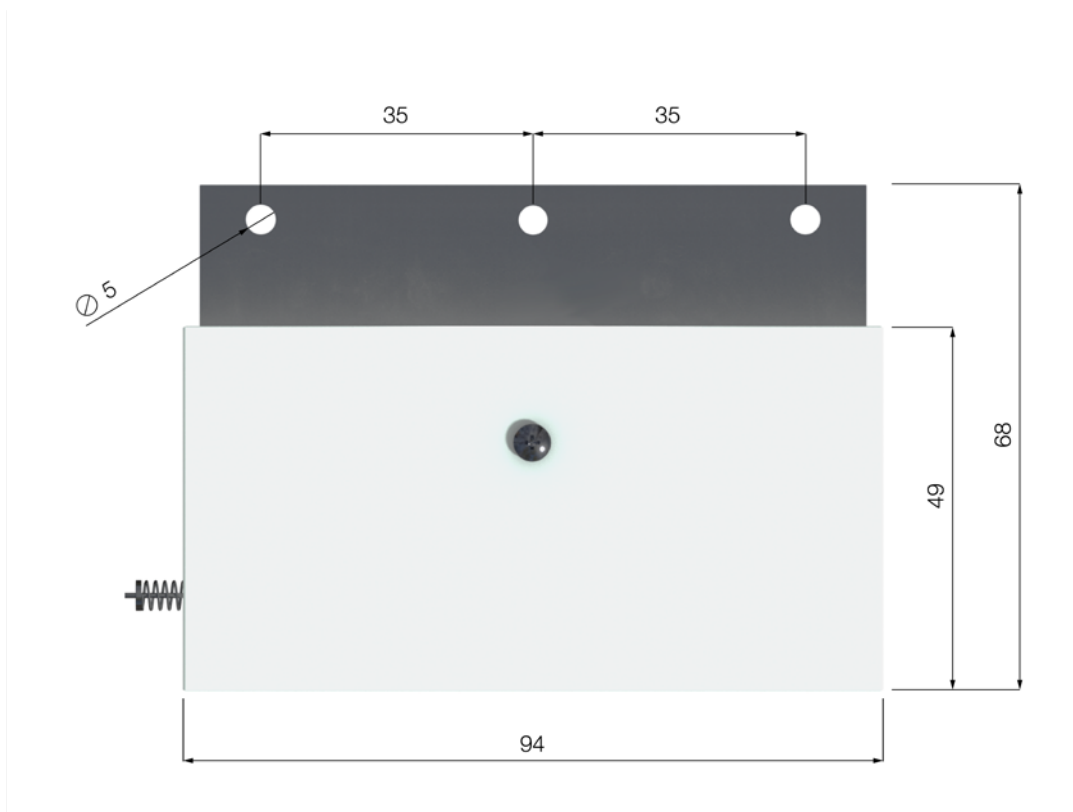Sash position sensor, rope length 1 meter for standard fume cupboards, product series FC700

01	02
SPS100	-7

HOUSING DIMENSION SPS100

HOUSING DIMENSION SPS200

MOUNTING

The rope of the sash position sensor is attached directly to the front sash frame. It is important to make sure that the rope of the sash position sensor can be easily rolled up. The rope must run free and must not be led over edges. The rope path (throw length) between the front sash completely closed and the front sash completely open must be at least 60 cm.
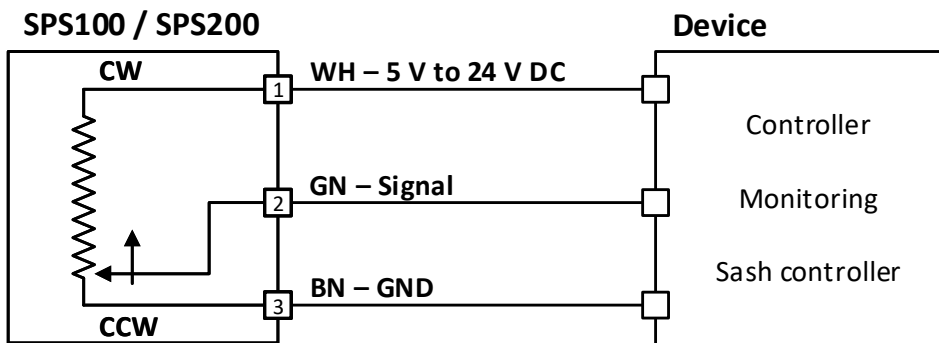
Electrical connection

The three-conductor preassembled sensor cable is fitted with a terminal for direct connection to the laboratory fume cupboard controller.

IMPORTANT!

Mounting of the sash position sensor must be carried out with utmost care. The sash position sensor must always be mounted such that the rope is rolled up when the front sash is open. This is the only way to ensure that the fume cupboard switches to the safe operating state in the event of a rope break. Do not pull the rope of the sash position sensor as far as possible and do not let it snap back, as the internal sensor and the mechanical winding device could be destroyed.

SPS100 / SPS200　　　　　　　　**Device**

CW			WH – 5 V to 24 V DC	
		1		Controller
		2	GN – Signal	Monitoring
		3	BN – GND	Sash controller
CCW				

Status: May 2021
Version: 02.00

Do you have any questions? We look forward to your message:

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