

SST SENSOR TESTER



Dear Customer,

Congratulations on choosing a SCHUNK product. By choosing SCHUNK, you have opted for the highest precision, top quality and best service.

You are going to increase the process reliability of your production and achieve best machining results – to the customer's complete satisfaction.

SCHUNK products are inspiring.

Our detailed assembly and operation manual will support you.

Do you have further questions? You may contact us at any time – even after purchase. You can reach us directly at the mentioned addresses in the last chapter of these instructions.

Kindest Regards,

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1 Safety

1.1 Explanation of symbols



This symbol is displayed wherever the possibility of **danger to humans** or **damage to the product** exists.



This symbol denotes **important information** about the product and its handling.

1.2 Intended use

The unit may be used only within the range of its technical data. Intended use also includes compliance with the manufacturer's commissioning, installation, operating, environmental and maintenance conditions. Any other use is deemed improper and unintended use. The manufacturer will not be liable for any damages resulting from improper use.

The SST sensor tester is used for testing and adjusting proximity switches from SCHUNK, i.e. the products IN, INK, MMS and RMS.

2 Warranty

The warranty period is 24 months from the date of delivery when utilized as intended in single-shift operations and in compliance with the specified maintenance and lubrication intervals. Parts that come into contact with the workpiece and wearing parts are not covered by the warranty. See also our General Terms and Conditions in this regard.

3 Scope of delivery

The scope of delivery includes:

- SST sensor tester incl. battery already installed
- Operating Manual

4 Technical data

Product designation	SST
ID No.	301400
Housing material	PA 6.2, blue
Protection class	IP 00 (according to IEC 529, EN 60529)
Connection type	M8 and M12 cable socket with 0.4m cable
Supply voltage	9V DC (block battery type: 6LR61)
internal operating voltage 15V DC	15V DC
LED green	Operating voltage indicator
LED yellow	Function indicator
LED red	Indicates battery change
Connection possibilities	Inductive, capacitive and opto-electronic sensors (3-conductor DC, 2-conductor DC and NAMUR)

Table 1: Technical data SMG

The switching function is signaled acoustically as well.

The sensor tester switches off automatically when not in use after about 30 seconds.

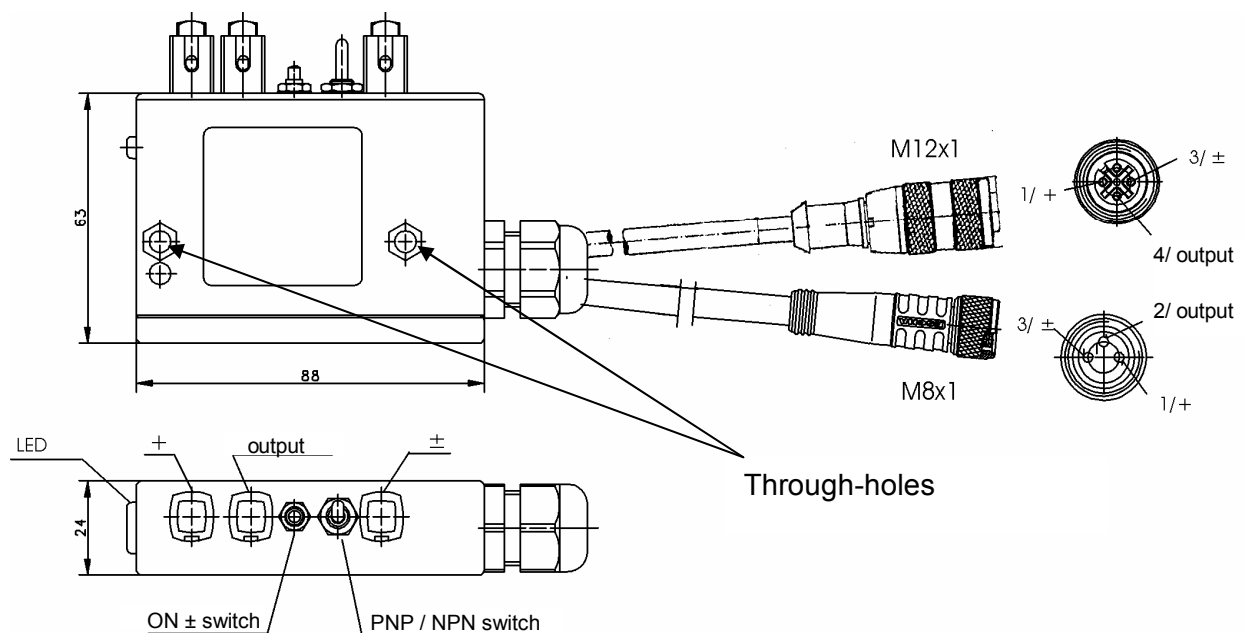
Additional technical data can be found in our catalog.

The most recent version applies (according to Chapter 2.3 of the General Terms and Conditions).

5 Assembly and installation

5.1 Assembly

The SST can be mounted via the through-holes on the side, if necessary.





5.2 Installation of a sensor on the sensor tester

5.2.1 Connection of a sensor with an M8 connector plug

- Plug the M8 plug of the sensor into the M8 socket of the SST
- Tighten the knurled nut.
- Set the NPN/PNP' switch for your sensor.
- **Note: In Europe, PNP sensors are generally used. The switch must then point in the direction of the printed label.**
- **For NPN sensors, push the switch in the other direction.**
- Push the On switch.

5.2.2 Connection of a sensor with an M12 connector plug

- Plug the M12 plug of the sensor into the M12 socket of the SST
- Tighten the knurled nut.
- Set the NPN/PNP' switch for your sensor.
- **Note: In Europe, PNP sensors are generally used. The switch must then point in the direction of the label.**
- **For NPN sensors, push the switch in the other direction.**
- Push the On switch.

5.2.3 Connection of a sensor with open wires

- Please check first whether the wire colors on your sensor match the definitions in the table. You can find information on this in the operating manual for your sensor

Wire color of most sensors	Spring-loaded terminal on SST	Explanation
Brown	+ PLUS	Supply voltage of sensor + VDC
Black	A	Signal output of the sensor
Blue	- MINUS	Supply voltage of sensor GND

- Connect the wires accordingly.
- Set the NPN/PNP' switch for your sensor.
- **Note: In Europe, PNP sensors are generally used. The switch must then point in the direction of the printing.**
- **For NPN sensors, push the switch in the other direction.**
- Push the On switch.

5.3 Operation of SST with a sensor

After the sensor tester is switched on, it remains active for 30 seconds. If the state of the connected sensor changes, the SST remains switched on for 30 seconds longer. The switched on state is indicated by the green LED. If this LED lights up red after switching on the unit, then you should replace the battery.

If the connected sensor is dampened, then the SST beeps once and the orange LED lights up. If the connected sensor changes from dampened to undampened state, then the SST beeps again and the orange LED goes out.

6 Battery change

1. Open the snap-on cover with a screwdriver.
2. Remove the old battery and replace it with a new one.
3. Press the snap-on cover back onto the housing.

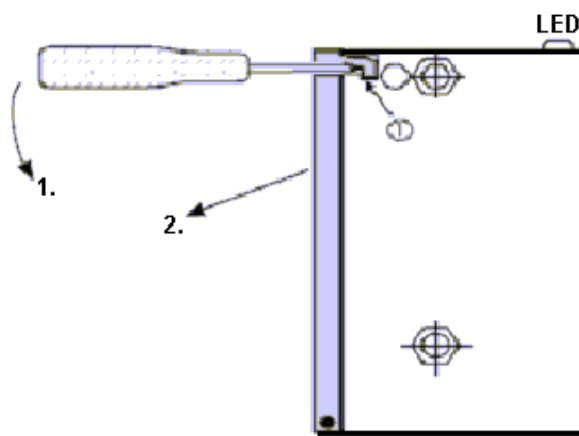


Figure 1 Battery change

7 Maintenance and care

The unit is maintenance-free.

8 Problem analysis

No LED lights up

The battery is dead or there is no battery in the unit

A red LED lights up

The battery is nearly dead. Please replace the battery.

The orange LED lights up continuously

The PNP/NPN switch is in the wrong position



9 Manufacturer's declaration

In accordance with EC Machine Directive 98 / 37 / EC, Appendix II B

Manufacturer / distributor

SCHUNK GmbH & CO:KG.
Precision Workholding Systems
Bahnhofstr. 106 - 134
D-74348 Lauffen/ Neckar

We hereby declare that the following products

SST Sensor Tester

Product type	Product no.
SST	301 400

are intended for installation in a machine and must not be put into service until the machine into which these products are to be installed has been declared to comply with the provisions of EC Machine Directive 98 / 37 / EC.

Applied harmonized standards, in particular:

EN ISO 12100-1 and EN ISO 12100-2

Date / Manufacturer's signature:

2007

Position of the undersigned

Manager, Development

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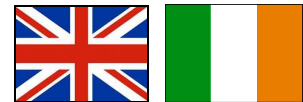
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