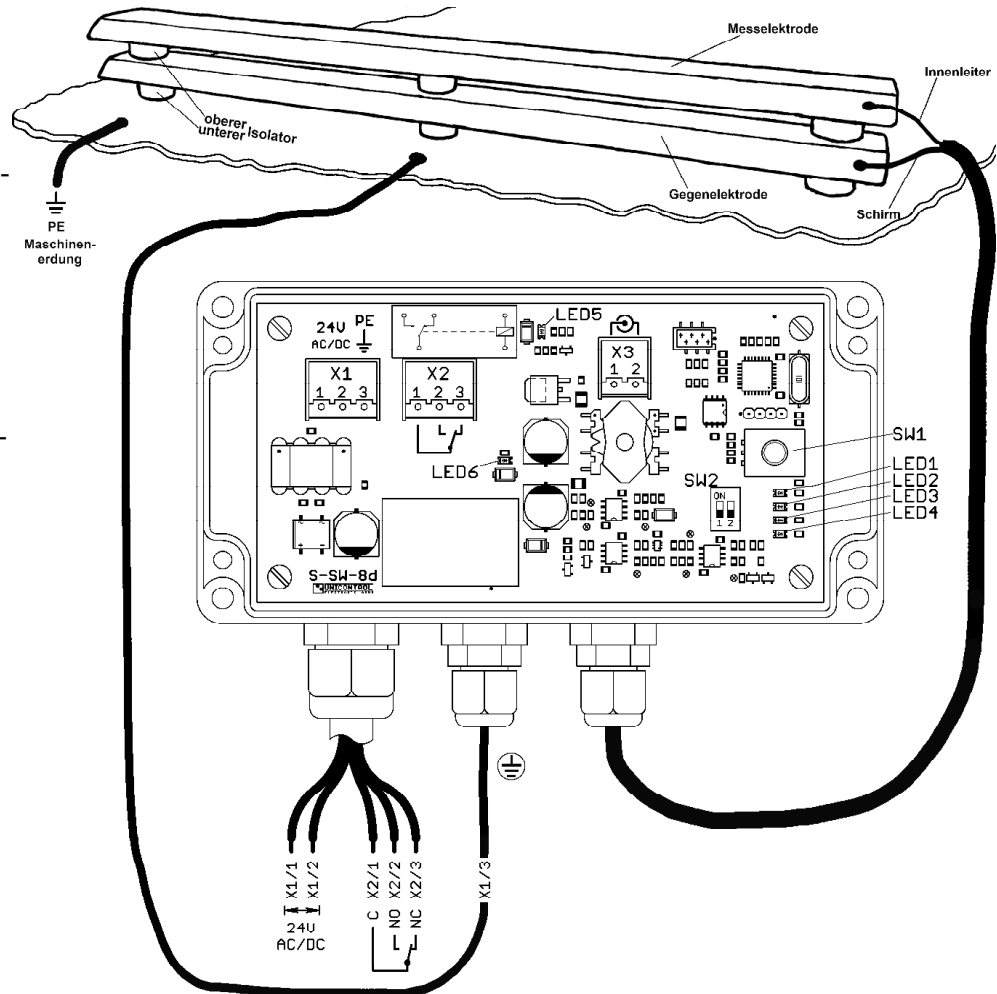


# S-SW-8

## Resumed Manual

- Primary use in the transport technology controls of roller transport lines.
- Capacitive sensor system with differential signal comparison.
- Detection of metallic and other conductor objects.
- Minimal function influence from the presence of impurities, metal dust or abrasives.
- Optional memory function: Power on with the last valid operational parameters without adjustments. Unmoved objects on previous power down keep on recognized.



### Connections

Stecker	Pin	Anschluss		
X1	1	24V <sub>AC/DC</sub>	Supply Voltage	Switchable polarity.
	2			
	3	PE	Electric reference potential for the evaluation unit.	! Connect to the sensor's mounting plate! The mounting plate must be connected to (safety) earth potential.
X2	1	C	Relay common contact	
	2	NO	Relay normally open contact	
	3	NC	Relay normally closed contact	
X3	1	Core	Connecting in the measuring electrode (up).	Use of coaxial cable.
	2	Shield	Connecting in the opposite electrode (down).	

## SW1: Sensibility and System Adjustment

- Clockwise rotating → **Increases the sensibility** ! Set just to the necessary sensibility
- Anticlockwise rotating → **Reduces the sensibility** !
- 2s ... 3s pushing → **Automatic setting of sensibility**  
Appropriated to detect the currently present target object.  
The LED 2 lights up after 2s pushing
- > 5s pushing → Triggers **system readjustment** process.  
No object should stay over the electrodes.

## SW2: Configuration

Hysteresis SW2-1	
ON	20 %
OFF	10 %



Memory-Function SW2-2	
ON	Active!
OFF	De-active



♥ = Default Settings

- ! By active memory function, an object which is present at the sensor may not be moved or removed in power off time!

## Information Elements

- LED1** is active by measurements. Its activity gives an idea about the level of the sensor detection signal.
- Slowly blinking (1/s) → no or small sensor signal level.
  - Moderate blinking (2/s) → middle range sensor signal level.
  - Fast blinking (4/s) → high sensor signal level.  
For safe detection of objects, it should be selected a greater range (SW2-3, SW2-4)!
  - Permanently on (1) → the sensor signal level is very high and is near or is exceeding the measurement range limits.  
For safe detection of objects, it should be selected a greater range (SW2-3, SW2-4)!
- LED2** informs about the push duration of the switch SW1.
- 0 s ... 2 s → LED2 off
  - 2 s ... 5s → LED2 on
  - > 5 s → LED2 off
- LED3** Lights when the sensor signal exceeds the measurement range limits.
- LED4** – always ON if the system falls in error conditions. The evaluation unit stops working. To restart it is necessary to perform a readjustment procedure.  
– slow blinking (1/s) while in adjustment [comparison] procedure.
- LED5** lights when relay is on (busy sensor electrodes).
- LED6** is the operation indicator. It lights when the evaluation unit is on.

## Function Explanation (Turning OFF without memorization)

Case the detector device is switched OFF while the memory function is inactive and an object is left in the detection area, the device “ignores” this condition. In this case, when the device is switched ON again, it will proceed with a new adjustment considering free detection area and the relay will stay OFF.

To be sure about this procedure, one can move his hand to the detection area to see the relay turning ON. After removing the object and subsequently the hand from the detection area, the relay turns OFF again and around 2s later the new conditions will be detected by the device as empty area.

The sensitivity setting is always saved, even in the case when the device is switched off. On the next switching ON, it will be recovered the same sensitivity from the last operation time.