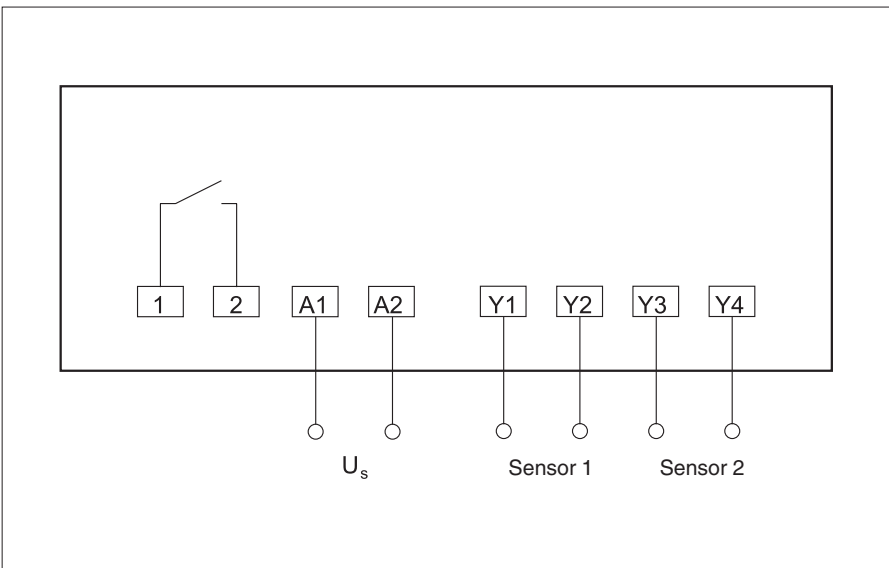


Control Unit SG-RS 204

Operating Instructions



Control Unit
Category 1 as per EN 954-1
for sensors with
1.2 k Ω monitoring resistor.



Control

This control unit has two monitoring circuits which operate one output relay.

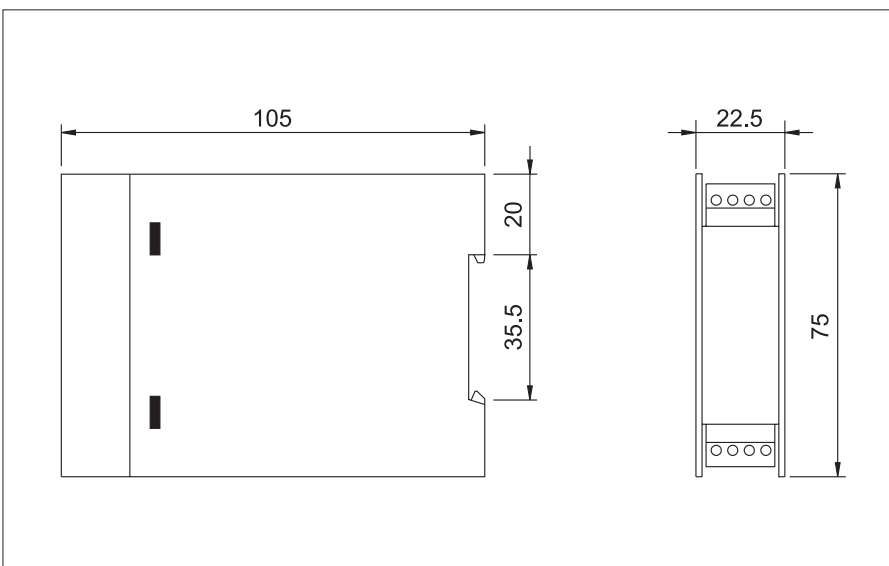
The electronics monitor the electrical resistance of the connected sensor, which operates on a specific closed-circuit current.

When the sensors are not activated the relay is energized (normal operating conditions).

When a sensor is activated, or if a break occurs in the power supply, the relay deenergizes.

Note

When using only one sensor, bridge the second input with $R = 1,2 \text{ k}\Omega$.



Enclosure

W x H x D (mm)	22.5 x 75 x 105
Protection class enclosure	IP 40
Plug connection	each 4 channel
Cable terminals	max. 2.5 mm ²
Weight	approx. 100 g

Installation and Operation

Technical Data

Connecting voltage U_s

SG-RS 204	DC 18 - 32 V
Power consumption	0.8 W

Relay Data

Switching voltage	max. 125 V AC
Switching current	max. 5 A

Permissible ambient temperature range	- 25 °C to + 60 °C
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Important notes:

- Supply voltage

must be in accordance with the connecting voltage U_s indicated on the type plate.

- Permissible ambient temperature range

Maintain sufficient distance from heat sources when mounting into a cabinet (min. 2 cm).

CAUTION

Do not disconnect the terminals or unplug the plug connection with power on!

Installation

The plug-in base can be mounted in any position:

- on a 35 mm EN 50 022 rail

Wiring takes place in the cable terminals of the plug connection:

Supply voltage	A1, A2
Relay	1, 2
Sensor 1	Y1, Y2
Sensor 2	Y3, Y4

Commissioning

After connecting up sensors, relay contacts and mains, carry out a function test in the following order:

Sensor not activated

- Output relay is energized

Sensor activated

- yellow LEDs "Betätigt" light up
- Output relay is deenergized

LED information

- (yellow) LED "Betätigt" (activated)
Sensor is activated and relays are deenergized
- (red) LED "Störung" (fault)
Break in power supply,
Relay deenergized
- (green) LED "Betrieb" (on)
Line voltage present

Subject to technical modifications.