



## Application

The safety controller for emergency stop (e-stop) and gate monitoring ZSY/IV/ba-1.67 is applied together with the safety switches SIDENT/IV for monitoring safety doors, roller and lift gates.

For dual-channel application, the ZSY/IV/ba-1.67 can be protected from cross circuit and configured with monitored or automatic start.

## Configuration

The plastic housing of ZSY/IV/ba-1.67 made from Polyamid (PA) 6.6 can be snapped on and is mounted on standard rails.

## Operation mode

The safety switch SIDENT/IV has to be connected to the input circuits S11/S12 and S21/S22.

For monitored start, the Start button has to be connected to the reset circuit S34/S21. Monitored start is enabled by pressing the Start button.

For automatic start, the device is configured with bridge S34 – S11.

For monitoring the external contactors, the NC contacts of the positive-guided contactors have to be integrated into the reset circuit.

## Connection Instructions

Only qualified staff is authorised to mount and connect safety switches SIDENT/IV and safety relays ZSY/IV/ba-1.67.

## Technical data

|                         |                       |
|-------------------------|-----------------------|
| Operating voltage $U_B$ | 24 V DC + 25 / - 20 % |
| Power consumption       | approx. 3 W           |
| Operating temperature   | - 25°C ... + 55 °C    |

### Inputs

|                      |                         |
|----------------------|-------------------------|
| <b>Safety inputs</b> | <b>S12, S22</b>         |
| Input voltage        | 24 V DC                 |
| Input current        | max. 10 mA (at 24 V DC) |

### Combination inputs S32, S33

|               |                         |
|---------------|-------------------------|
| Input voltage | 24 V DC                 |
| Input current | max. 10 mA (at 24 V DC) |

### Outputs

#### Safe control outputs S11, S21

|                |                |
|----------------|----------------|
| Output voltage | $U_B - 1,75$ V |
| Output current | max. 50 mA     |

#### Safe semiconductor outputs 14, 24, 34, 44

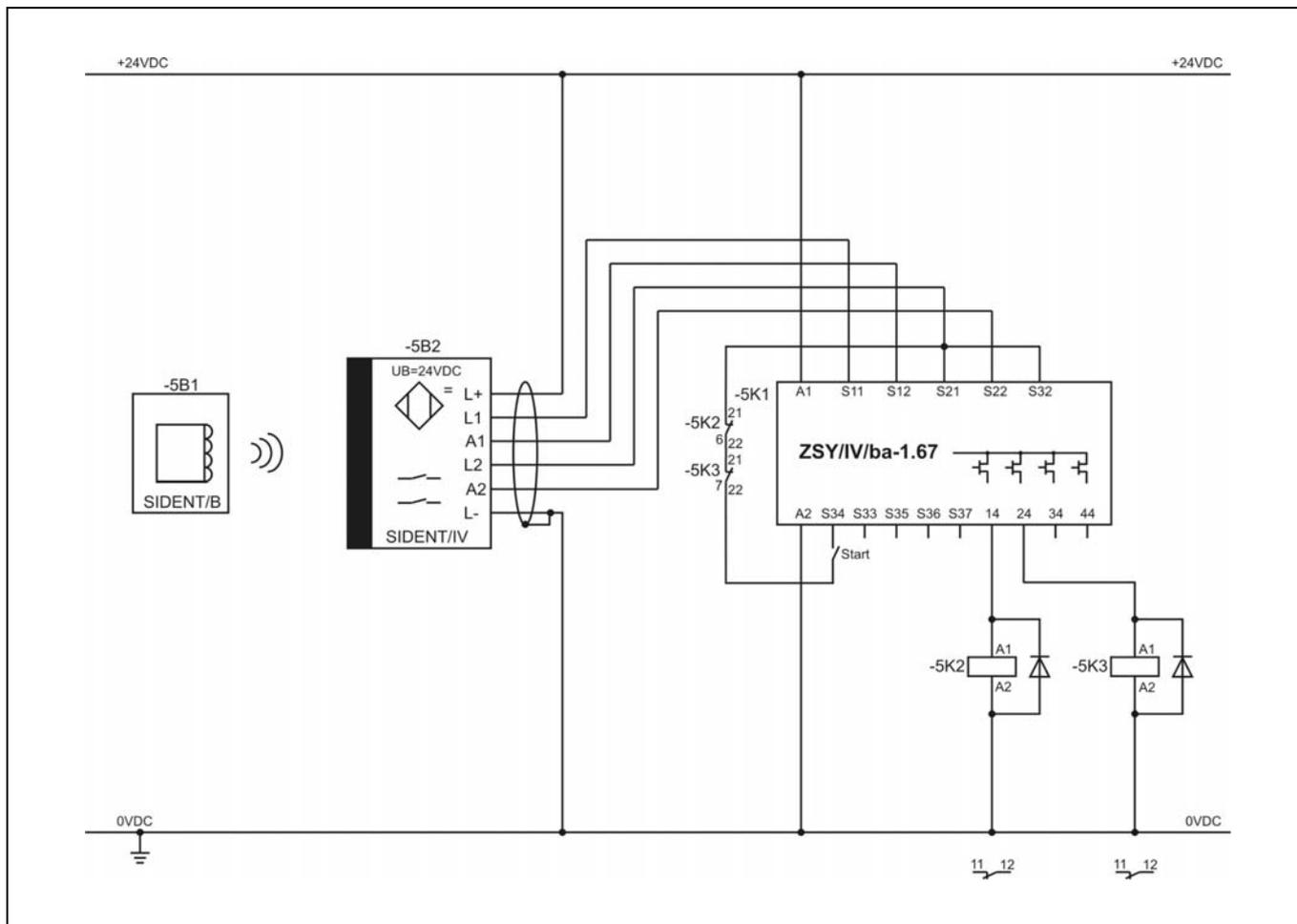
|                |                      |
|----------------|----------------------|
| Output voltage | $U_B - 1,75$ V       |
| Output current | in total, max. 2,7 A |
| Pull-in delay  | max. 70 ms           |
| Dropout delay  | max. 30 ms           |

|                                      |                     |
|--------------------------------------|---------------------|
| Dimensions (B x H x T)               | 22,5 x 100 x 115 mm |
| Protection rating housing            | IP 20               |
| Protection rating terminals (clamps) | IP 20               |
| Weight                               | 120 g               |

## Order data

|                       |                   |
|-----------------------|-------------------|
| <b>ZSY/IV/ba-1.67</b> | Ref. No. 20.20-01 |
|-----------------------|-------------------|

**Connection**



Safety Switches SIDENT for common application with Safety Relay ZSY you will find in the ALSEN TK 5 catalog.

We are certified according to DIN EN ISO 9001.

Subject to changes!