



## 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	$U_B - 1,75 \text{ V}$
Output current	max. 50 mA

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

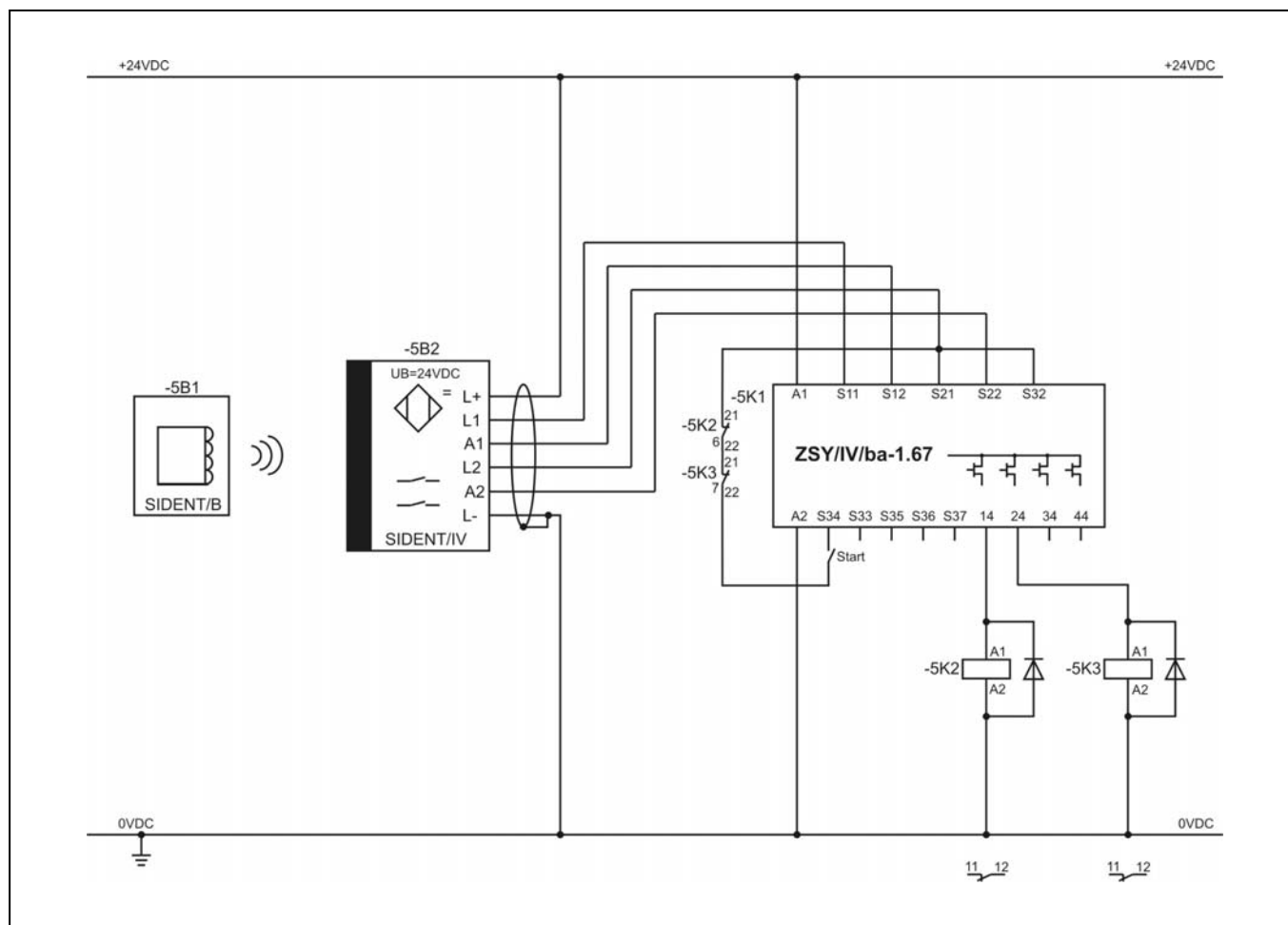
Output voltage	$U_B - 1,75 \text{ V}$
Output current	in total, max. 2,7 A
Pull-in delay	max. 70 ms
Dropout delay	max. 30 ms

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
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## 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!