

# Industrial Automation ***System HIMatrix***

## **Data Sheet**

### **Z 7308**

**Shunt Adapter**



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Industrial Automation

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# 1 The *HIMatrix Z 7308* Shunt-Adapter

HIMA part number 98 2220137

## 1.1 Shunt Adapter

The shunt adapter is a plug-in modul for the analog inputs of the safety-related controller HIMatrix F35 controller and the safety-related remote I/O module F3 AIO 8/4 01.

- Voltage divider
- Overvoltage protection

Shield cables must be attached at the shunt adapter. The shield must be connected at the controller.

The shunt adapter is coated for protection against dust and humidity.



Figure 1: View of the Z 7308 Shunt Adapter

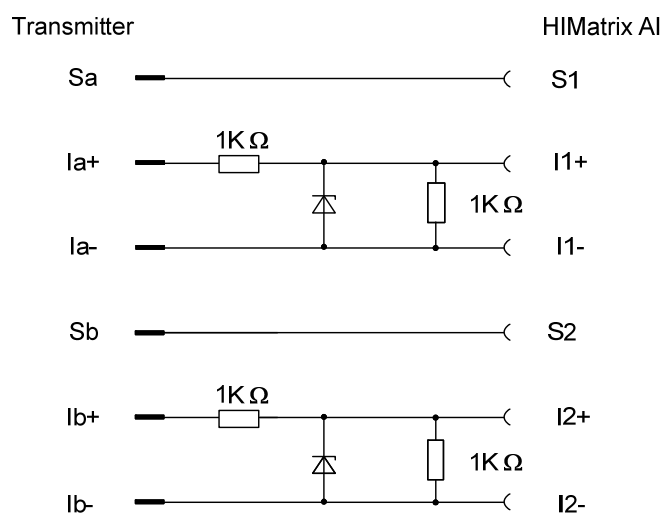


Figure 2: Shunt Adapter, internal wiring to the HIMatrix analog inputs

The shunt adapter terminals are connected as follows:

| Designation | Function (Analog Inputs) |
|-------------|--------------------------|
| Sa          | Transmitter supply a     |
| Ia+         | Analog input a           |
| Ia-         | Reference pole a         |
| Sb          | Transmitter supply b     |
| Ib+         | Analog input b           |
| Ib-         | Reference pole b         |

**Table 1: Terminal assignment of the Shunt Adapter**

## 1.2 Application of the F35 and F3 AIO 8/4

The shunt adapter can be used to connect contacts with resistors.



For all applications the limit values for current and voltage must be considered (see Technical Data). When connecting lines, please pay attention to the polarity!

Contacts with resistors and a cable resistance  $R_L < 30 \Omega$

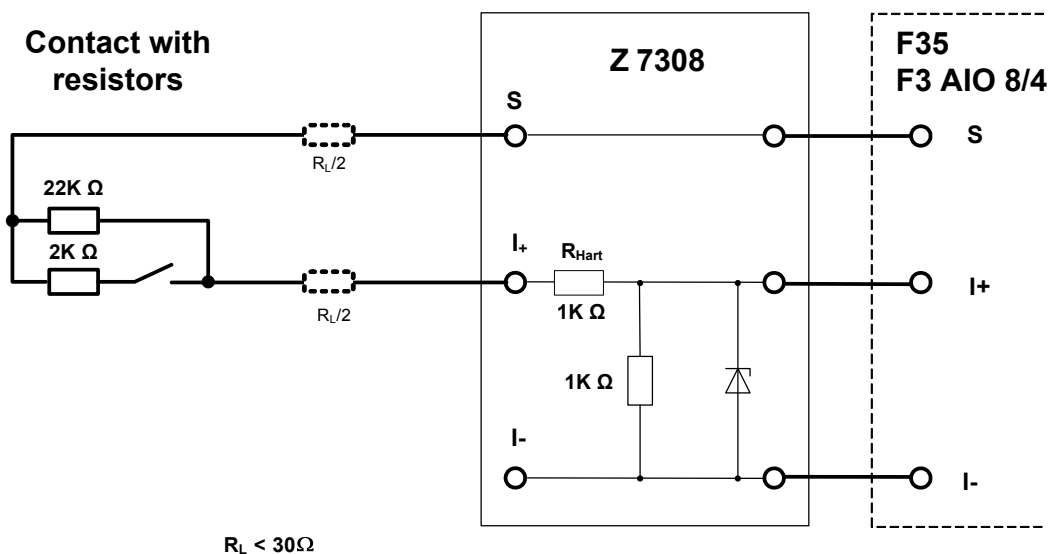


Figure 3: Contact with resistors connected to F35 or F3 AIO 8/4 via Z 7308

## 1.3 Technical Data Z 7308

| Shunt Adapter                 |   |
|-------------------------------|---|
| Maximum power loss per branch | 0.6 W, bei $I_{\max} = 20 \text{ mA}$         |
| Overvoltage protection        | $U_{I \max} \leq 30 \text{ V}$                |
| Operating temperature         | $0^\circ \text{C} \dots +60^\circ \text{C}$   |
| Storage temperature           | $-40^\circ \text{C} \dots +85^\circ \text{C}$ |
| Dimensions (H x W x D)        | 35 x 23 x 25 mm                               |

Table 2: Technical Data

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