

Industrial-Automation
System *HIMatrix*

Z 7301/Z 7302/Z 7309
Shunt Adapter

Data Sheet



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Revisions index	Revisions	Type of Change	
		technical	editorial
1.00	Added: Shunt adapter Z 7309 Changed: Operating temperature	X	X



Z 7301 / Z 7302 / Z 7309

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1 HIMatrix Shunt Adapter Z 7301 / Z 7302 / Z 7309

1.1 Shunt Adapter

The shunt adapter is a plug-in module for the analog inputs of the controller F 35 and the safety-related remote I/O F3 AIO 8/4 01.

The shunt adapters Z 7301 / Z 7302 / 7309 are equipped with the following resistors:

- Z 7301: 250 W
- Z 7302: 500 W
- Z 7309: 500 W, for F3 AIO 8/4 01 when connecting proximity switches

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

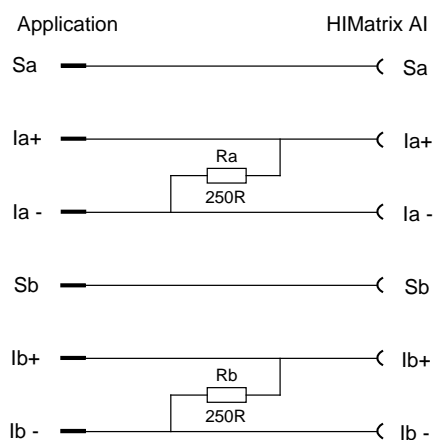


Figure 1: Shunt adapter Z 7301 (250 W adapter) and internal wiring to analog inputs of the HIMatrix

The terminals of the shunt adapter have the following functions:

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 Technical Data

Shunt adapter	
Resistor value	Z 7301: 250 W (part no.: 98 2220059) Z 7302: 500 W (part no.: 98 2220067) Z 7309: 500 W (part no.: 98 2220177)
Tolerance	0.1%
Temperature coefficient	25 ppm/°C
Permanent load at current measurement	See service value of analog inputs
Maximum power loss per shunt	Z 7301: 0.4 W (250 W) at $I_{\max} = 40 \text{ mA}$ Z 7302: 0.8 W (500 W) at $I_{\max} = 40 \text{ mA}$ Z 7309: 0.4 W (500 W) at $I_{\max} = 20 \text{ mA}$
Operating temperature	-25 °C to +70 °C
Storage temperature	-40 °C to +85 °C
Dimensions	Width: 25 mm, Height: 25 mm, Depth: 25 mm



Warning!

The shunt adapter Z 7309 may be operated only with the transmitter supply of 8,2 V.

Higher voltages will destroy the shunt adapter.

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...the safe decision.



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