CHAPTER 1: DESCRIPTION

1.1 **Product Description**

The RTD Input Modules allow RTD temperature sensors to be directly connected to the PLC without external signal processing (transducers, transmitters, etc.). All analog and digital processing of the RTD signal is performed on the module, and temperature values in 0.5°C or 0.5°F increments are written to the 90-30 %Al input table. All modules feature six channels, and support PT-90 (MIL-7990), PT-100 (alpha=.00385, .003902 and .03906), Ni-120, Cu-10, Cu-50, Cu-53, Cu-100, Pt-1000, TD5R and Linear Resistance.

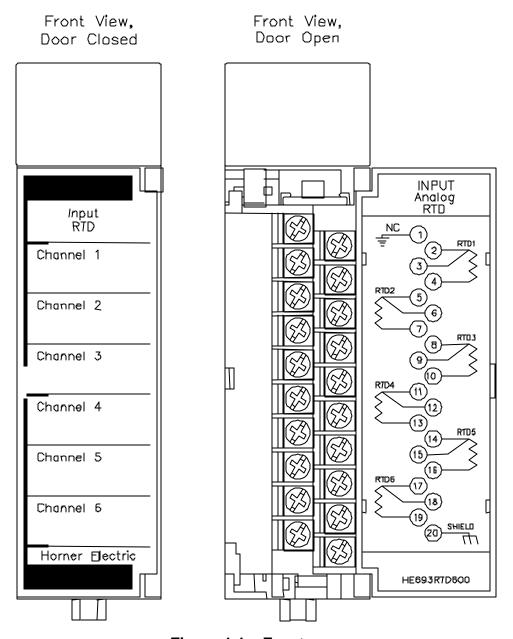


Figure 1.1 – Front



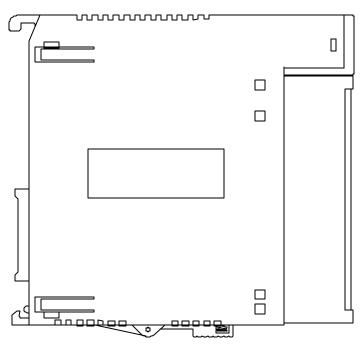


Figure 1.2 – Side View RTD600.DWG

1.2 Specifications

Table 1.1 - HE693RTD600-24 Specifications				
Power Consumption (Typical)		75mA @ 5VDC	Number of Channels	6
	Pt-100E	-200 to 850°C	I/O Points Required	6%AI
	Pt-100C	-100 to 650°C	Input Impedance	>1000 Meg Ω
	Pt-100Z	-200 to 300°C	Fault Protection	Zener Diode Clamp
	Pt-1000	-100 to 850°C	A/D Conversion Type	16 bit, Integrating
	Cu-10	-200 to 260°C	Update Time	50 Channels per second
Types Supported	Cu-50	0 to 100°C	Average RTD current, PT-100	330 microamps
	Cu-53	-200 to 260°C	Channel to Channel Tracking	0.1°C
	Cu-100	-200 to 200°C	Resolution	0.5°C or 0.5°F
	Ni-120	-100 to 270°C	Accuracy	± 0.5°C typical, ± 1.0°C for Cu-10 and TD5R
	Linear	0 to 200Ω	Operating Temperature	0 to 60°C (32° to 140°F)
	TD5R	-40 to 150°C	Relative Humidity	5% to 95% non- condensing
	Pt-90 (MIL-7990)	-50 to 200°C		