

SG-770 Hardware User Guide *Ver 1.0*

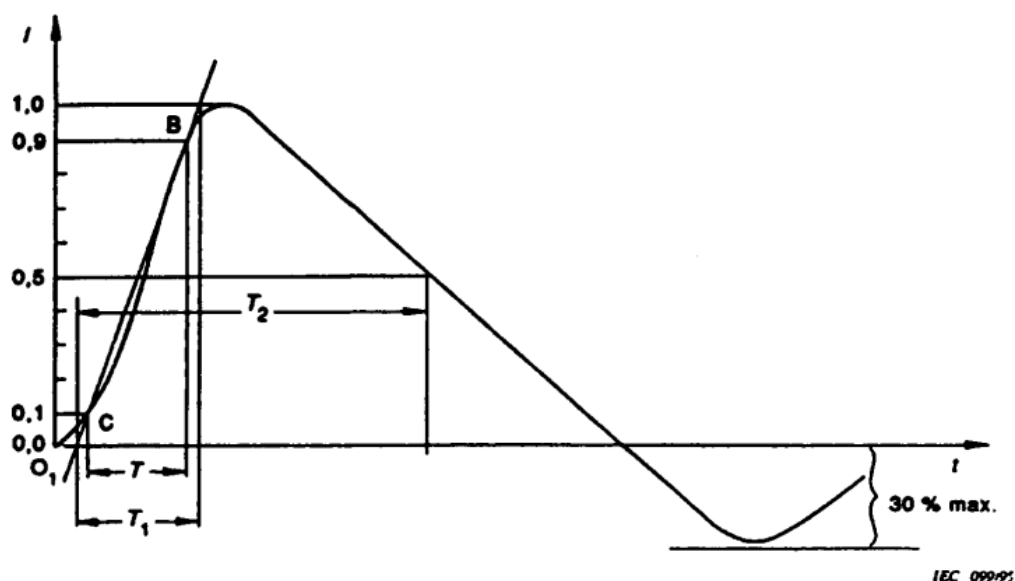
Last Modified 18/03/2009

SG-770 Specifications

Specifications

General	
Standards	IEC 61000-4-5, IEC 61000-4-12
Input Channels	7
Input Signal Type	Voltage, Current, Thermocouple, RTD, RS-485
Max. Line Voltage	30 VDC
Protection Performance	
Surge Waveform	IEC 61000-4-5 <i>ref. Figure 3</i> IEC 61000-4-12 <i>ref. Figure 4</i>
Max. Surge Voltage	Line to Earth: +/- 6000 V max.
Environment	
Operating temperature	-25 °C ~ 75 °C
Storage temperature	-30 °C ~ 75 °C
Humidity	5 to 95% RH, non-condensing

Surge Waveform Type



Front time: $T_1 = 1,25 \times T = 8 \mu s \pm 20 \%$

Time to half-value: $T_2 = 20 \mu s \pm 20 \%$

**Figure 3 — Waveform of short-circuit current (8/20 μs)
(waveform definition according to IEC 60-1)**

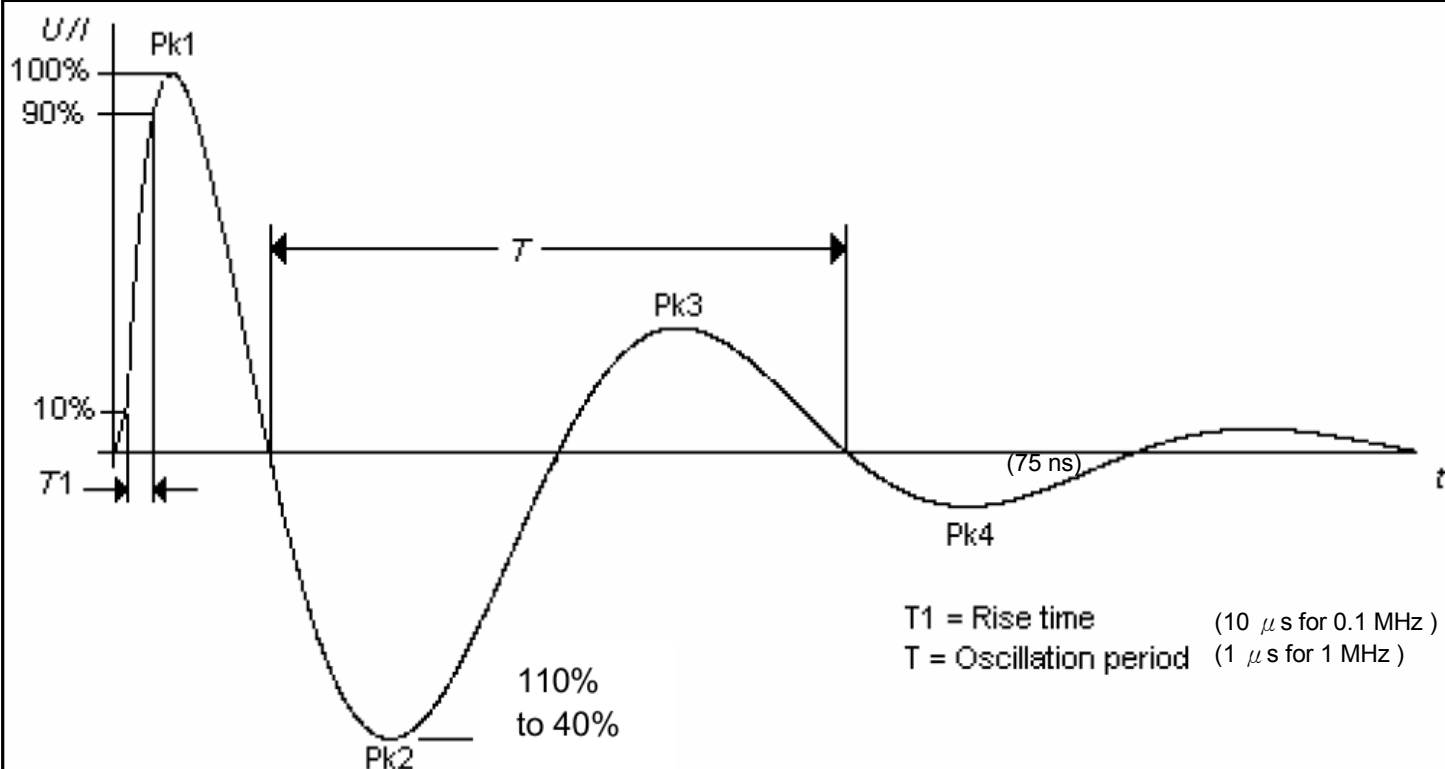
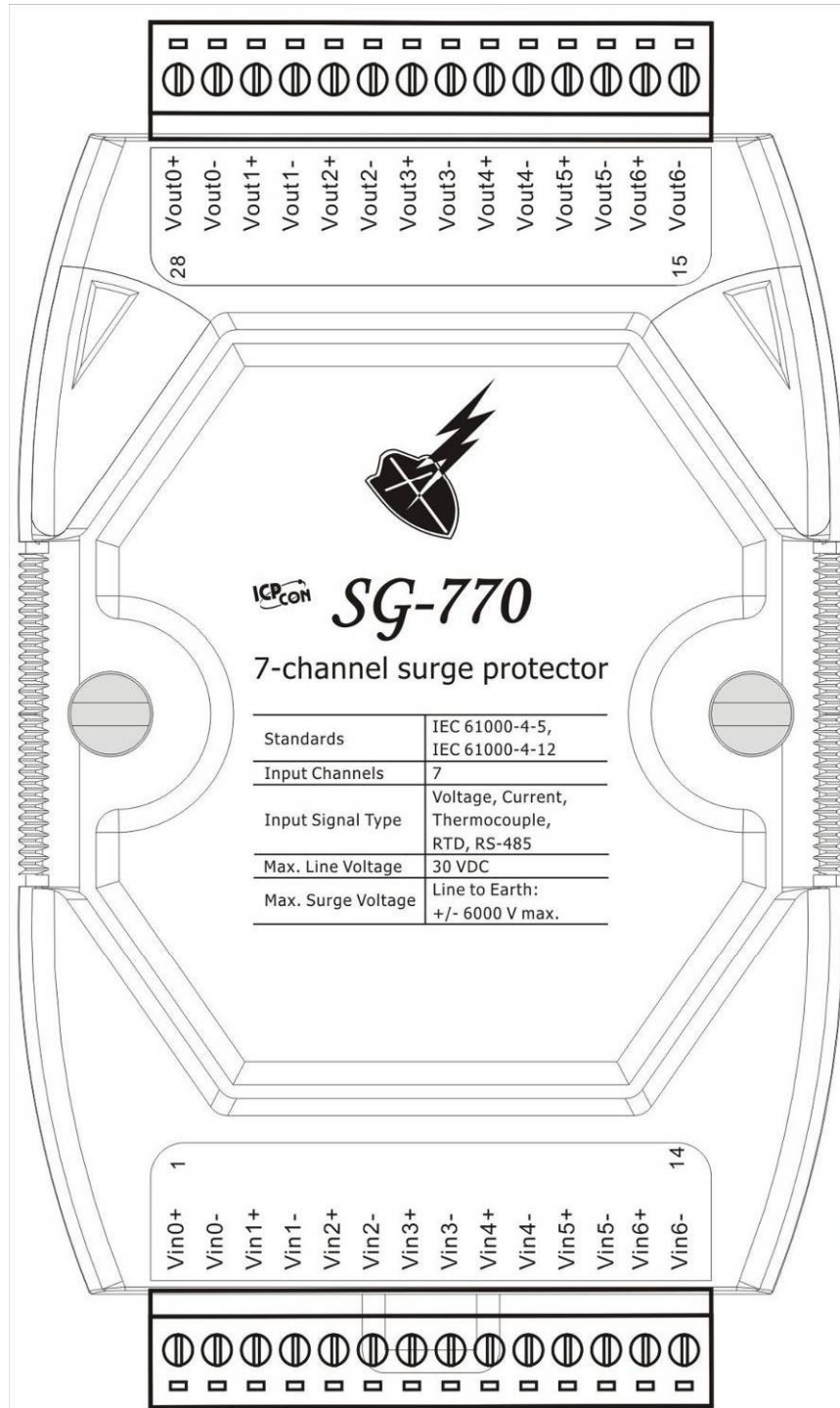


Figure 4 — Waveform of IEC-61000-4-12

SG-770 Pin Assignment



Vin0+	1
Vin0-	
Vin1+	
Vin1-	
Vin2+	
Vin2-	
Vin3+	
Vin3-	
Vin4+	
Vin4-	
Vin5+	
Vin5-	
Vin6+	
Vin6-	14

28	Vout0+
	Vout0-
	Vout1+
	Vout1-
	Vout2+
	Vout2-
	Vout3+
	Vout3-
	Vout4+
	Vout4-
	Vout5+
	Vout5-
	Vout6+
15	Vout6-

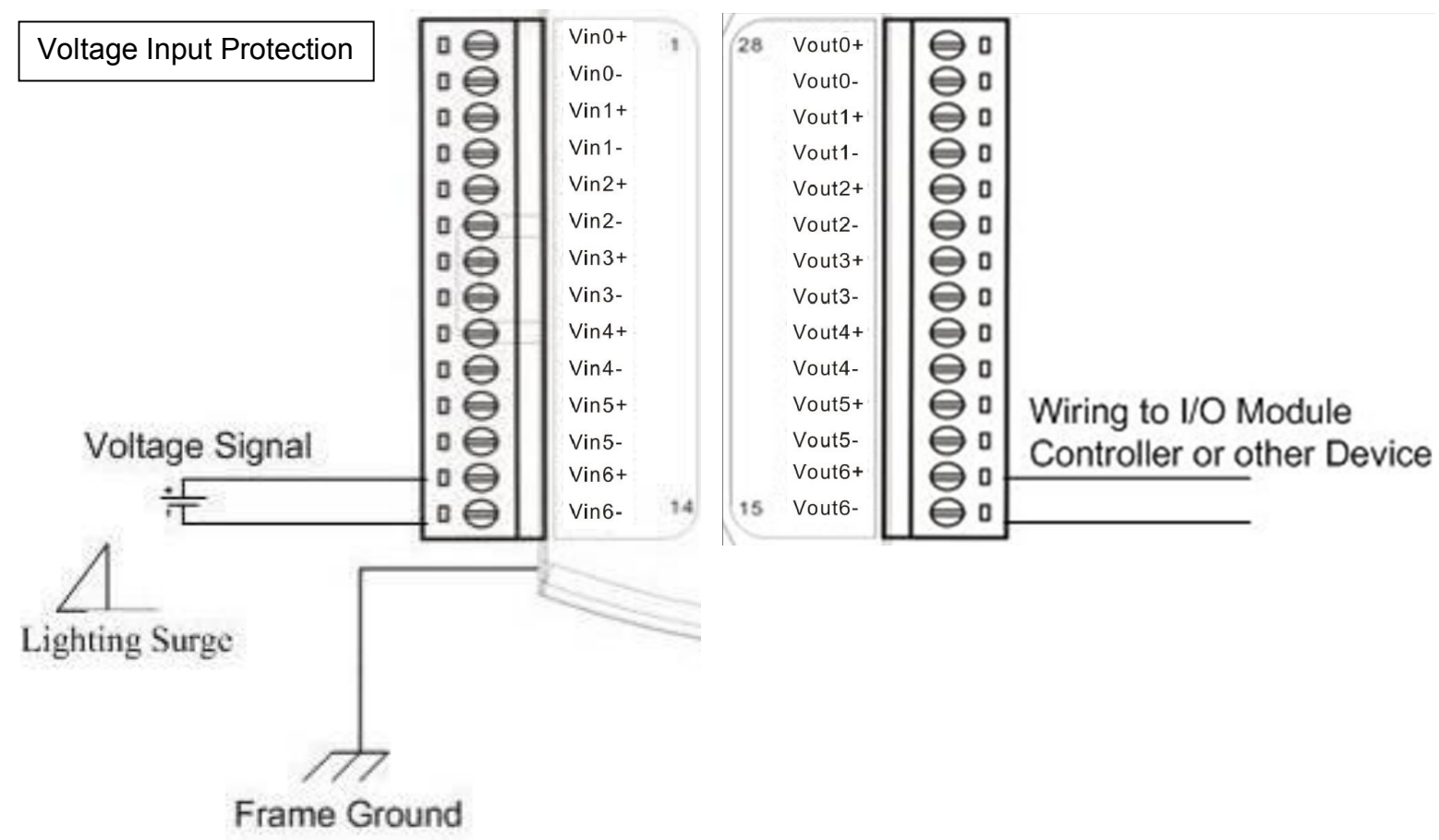
ICP CON SG-770

7-channel surge protector

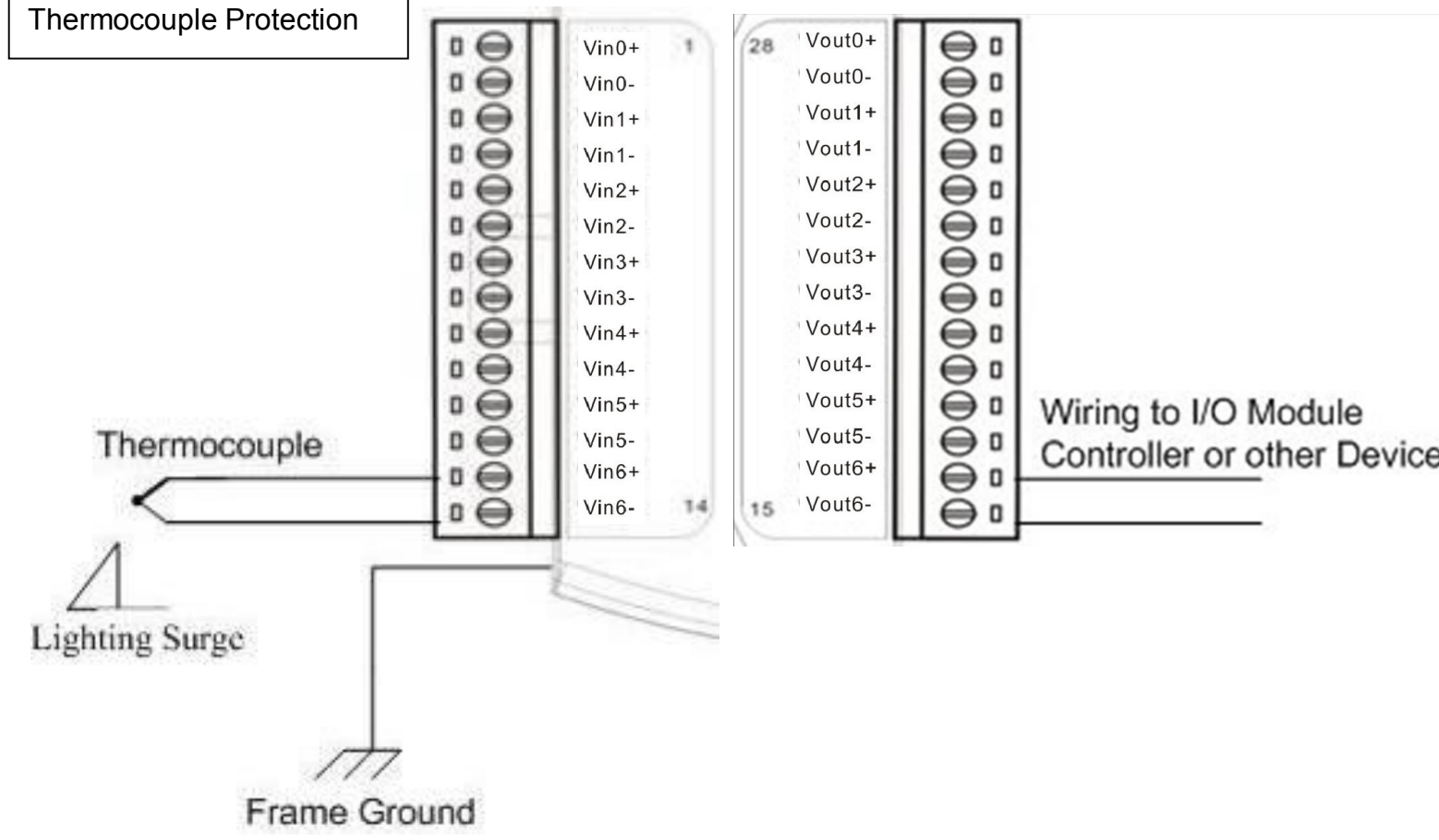
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SG-770 Wire Cc

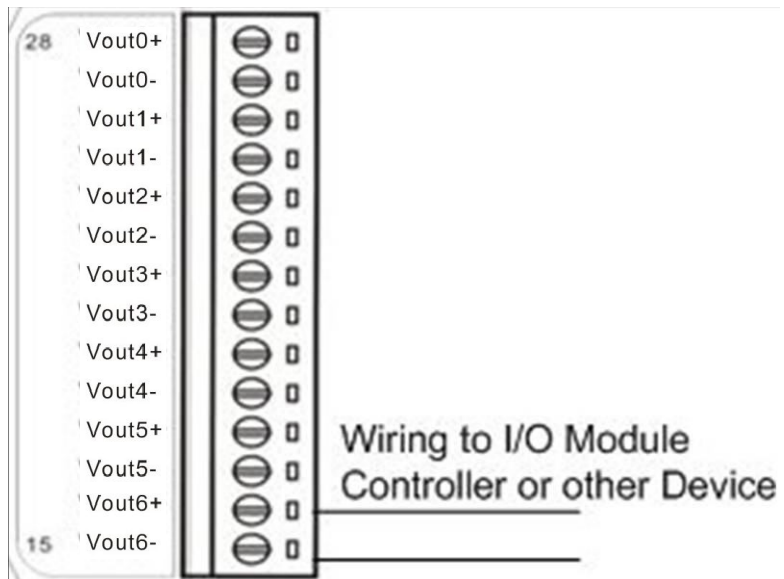
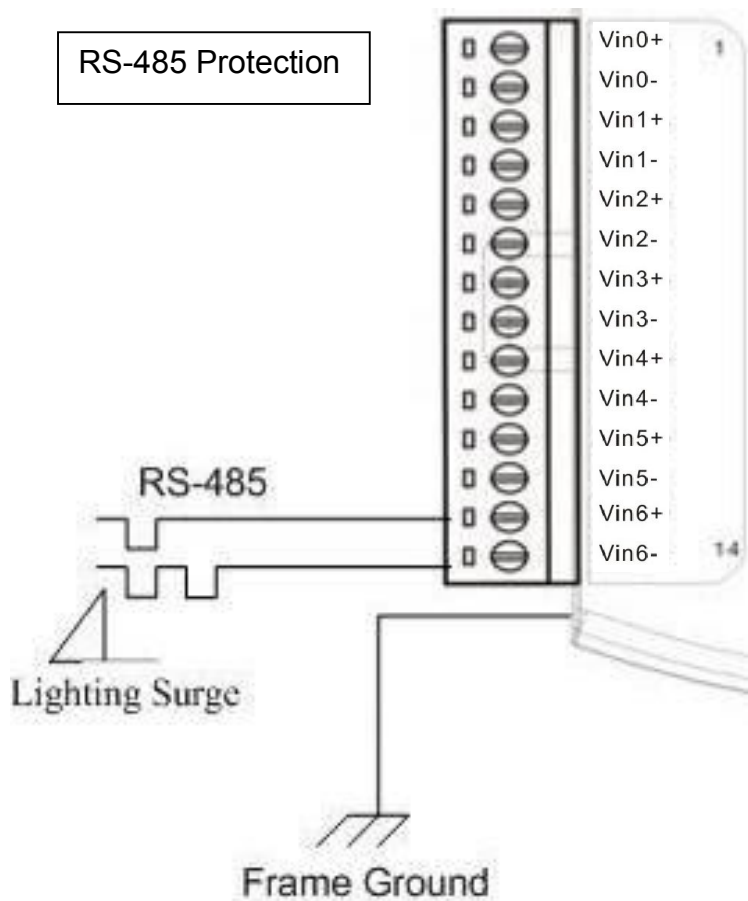
Voltage Input Protection



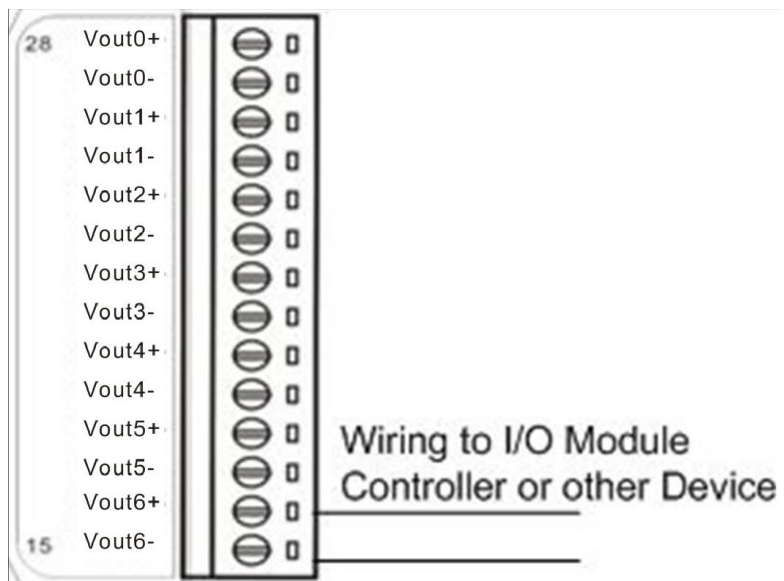
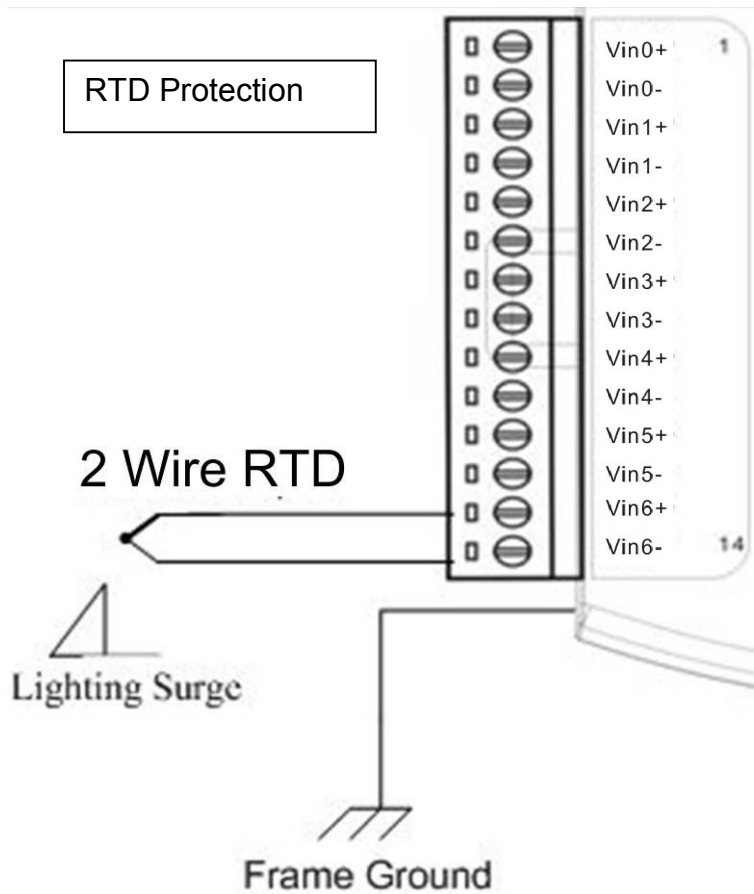
Thermocouple Protection



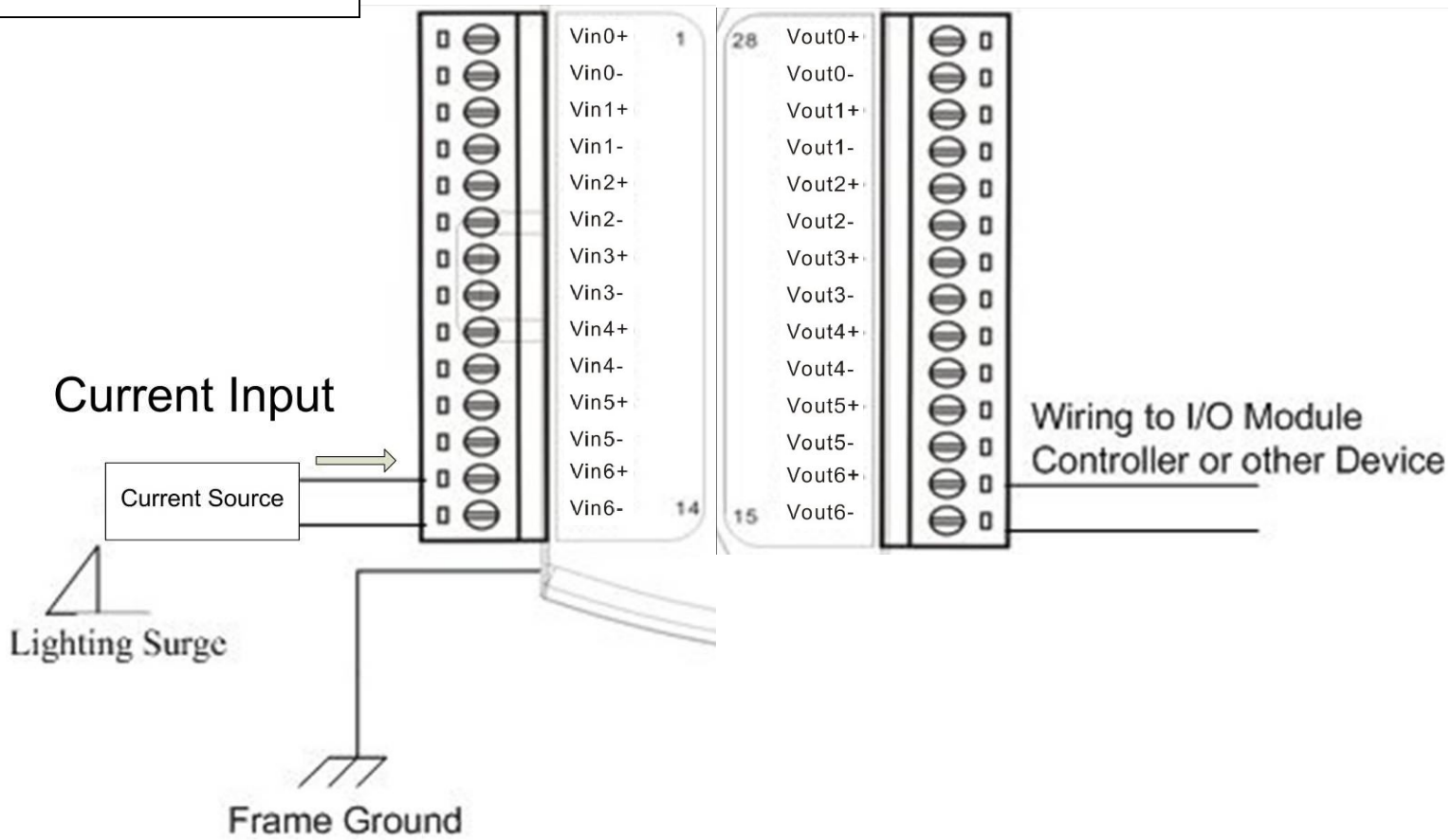
RS-485 Protection



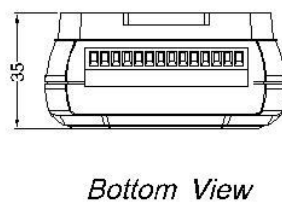
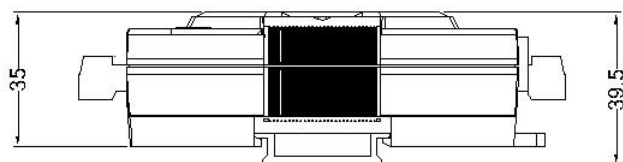
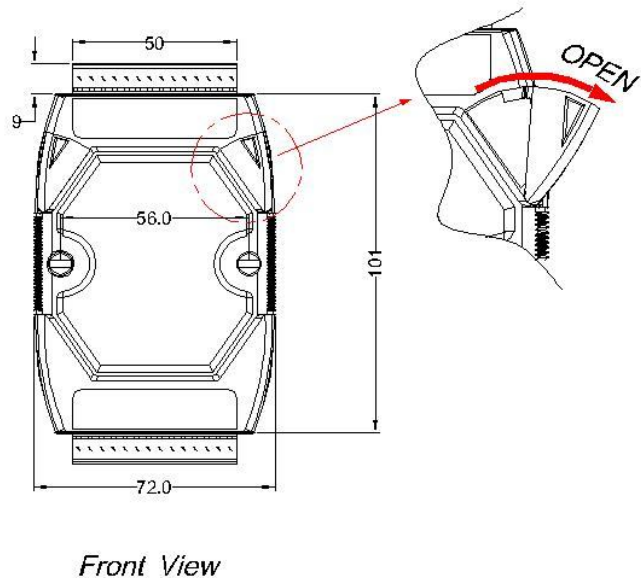
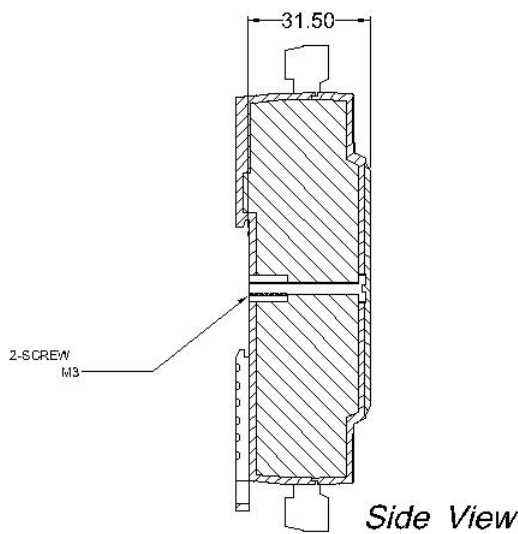
RTD Protection



Current Input Protection



Dimensions



Unit : mm

