SC1000 Series Loop Alarm™ Relay Output Modules for Thermocouples, RTDs and Process Inputs



Loop Alarms ™ accept inputs from thermocouples (SC1290 / SCL1290), RTDs (SC1490 / SCL1490), or process devices (SC1090 / SCL1090). Relay outputs may be set for latching or non-latching. Alarms may be set for direct or reverse action, high or low function, and have normally open and normally closed contacts, thus providing a large number of combinations of output behavior.

All modules mount into industry standard 35mm DIN Rail for easy mounting.

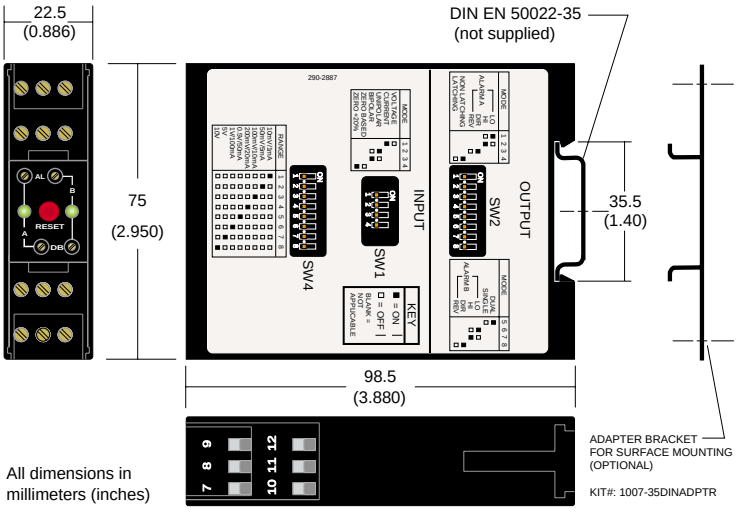
INPUT RANGES

INPUT TYPE	RANGE °C	RANGE °F
SC1490 and SCL1490 Inputs:		
Cu10 RTDs	0 to 250°C	(32 to 482°F)
NiFe 1000, 2000 RTDs	-50 to +200°C	(-58 to +392°F)
Ni120 RTDs	-50 to +250°C	(-58 to +482°F)
Ni100 RTDs	-50 to +150°C	(-58 to +302°F)
Pt 100, 500, 1000 RTDs	0 to 100°C	(32 to 212°F)
	0 to 300°C	(32 to 572°F)
	0 to 500°C	(32 to 932°F)
SC1290 and SCL1290 Inputs:		
Type T Thermocouple	-270 to +210°C	(-454 to +410°F)
	-270 to +390°C	(-454 to +734°F)
	0 to 210°C	(32 to 410°F)
	0 to 390°C	(32 to 734°F)
Type S Thermocouple	0 to 1050°C	(32 to 1922°F)
	0 to 1760°C	(32 to 3200°F)
Type R Thermocouple	0 to 970°C	(32 to 1778°F)
	0 to 1760°C	(32 to 3200°F)
Type K Thermocouple	-270 to +250°C	(-454 to +482°F)
	-270 to +480°C	(-454 to 896°F)
	0 to 250°C	(32 to 482°F)
	0 to 480°C	(32 to 896°F)
	0 to 1372°C	(32 to 2501°F)
Type J Thermocouple	-210 to +190°C	(-346 to +374°F)
	-210 to +360°C	(-346 to +680°F)
	0 to 190°C	(32 to 374°F)
	0 to 360°C	(32 to 680°F)
	0 to 760°C	(32 to 1400°F)
Type E Thermocouple	-270 to +150°C	(-454 to +302°F)
	-270 to +290°C	(-454 to +554°F)
	0 to 150°C	(32 to 302°F)
	0 to 290°C	(32 to 554°F)
	0 to 660°C	(32 to 1220°F)
	0 to 1000°C	(32 to 1832°F)

1090 Inputs:
Current Inputs: 0 to 50 mA, 0 to 100 mA, 0 to 1 mA, 0 to 5 mA, 0 to 10 mA, 0 to 20 mA.
Voltage Inputs: 0 to 500 mV, 0 to 1 V, 0 to 5 V, 0 to 10 V, 0 to 10 mV, 0 to 50 mV, 0 to 100 mV, 0 to 200 mV

DIMENSIONS

(All dimensions in mm with inches in parenthesis)



SC1090 and SCL1090

Input Impedance:
Voltage input = 1 megohm
Current input = 10 ohms.

SC1490 and SCL1490

Search Current:
Cu 10Ω = 5 mA.
Plt100Ω, Ni100Ω, Ni120Ω = 500µA.
Plt500Ω, NiFe1000Ω, NiFe2000Ω = 100µA.
Plt1000Ω = 50µA.

Lead Compensation Error:
±0.02%/Ω.

SC1290 and SCL1290

Input Impedance:
3 megohms.

Open Thermocouple Protection:
Selectable upscale or down scale.

HOW TO ORDER

Specify part number for the appropriate input.

SC1090 = Current/Voltage Input, line powered.

SC1290 = Thermocouple Input, line powered.

SC1490 = RTD Input, line powered.

SCL1090 = Current/Voltage Input, low voltage powered.

SCL1290 = Thermocouple Input, low voltage powered.

SCL1490 = RTD Input, low voltage powered.

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Loop Alarm™