

Smart IR_{t/c}TM



Infrared Temperature Sensor

Alarm Pin Option

Option Description

The Alarm Pin provides the user with an independent line that goes high (~ 5V) whenever the unit is in an error state.* This feature is useful in applications where immediate "shut-off" is required. There are also applications where the controller cannot determine when the signal line is showing an error message and an independent line is required.

* If the error is that the user is holding the output pin high, the alarm pin may switch between 0 and 5 volts, since the unit will be trying to correct its output.

Option Specifications

Alarm Pin Impedance	10K ohms
Maximum Time for Alarm Pin to Trigger	One Response Time, 250 msec
Pin Color	Normally Yellow
Alarm Level	5V on all models

Applying a voltage above 5.4V may cause the unit to freeze or malfunction, restarting without the high voltage present should reset the unit. Pulling the pin significantly high can cause permanent damage.

Graphs and Supporting Data

ERROR MESSAGES						
Condition	Priority	LED Display	0-5V	0-10V	4-20mA	RS-232
Low Power	1	OFF	Under 0.1V	Under 0.1V	Under 4mA	Not Implemented
Hardware Internal Errors	2, 13	Uniform Flash	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Vsig-Offset High	3	Uniform Flash	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Vsig-Offset Low	4	Uniform Flash	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
EMI	5	Uniform Flash	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Range Error	6	Uniform Flash	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
High Ambient	7	Long Flash**	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Low Ambient	8	Short Flash*	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Too Much Heat Flow	9	Long Flash**	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Too Little Heat Flow	10	Short Flash*	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
High Target	11	Long Flash**	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented
Low Target	12	Short Flash*	Over 4.9V	Over 9.8V	Over 19.7mA	Not Implemented

*Six counts off one count on

**Six counts on one count off