

User's Guide

EXTECH
INSTRUMENTS

Remote Relay Alarm Kit

Model SL123 (AC) and SL124 (DC)



Introduction

This Remote Relay Alarm Kit provides a means to interface the Extech SL130 Sound Level Monitor or the RH520 Humidity-Temperature Recorder to an external device to indicate when over limit condition occurs.

Contents

SL123

10A AC Solid State Relay.
Alarm Relay Trigger Cable (3 meter length).
Nickel-plated screws and saddle clamps.

or

SL124

3A DC Solid State Relay.
Alarm Relay Trigger Cable (3 meter length).
Nickel-plated screws and saddle clamps.

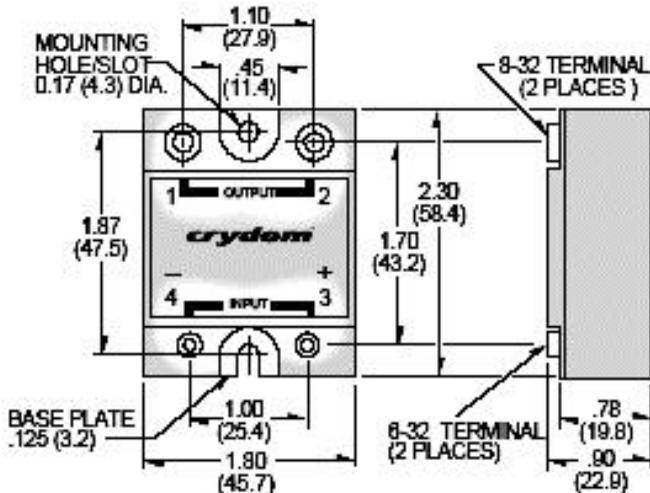
Specifications

SL123

Solid-State Relay output: Form 'A', normally open.
Load Current: 40 mA minimum to 10 Amps AC max. at 25 °C ambient.
Derate linearly to 1.9 Amp AC at 80 °C ambient.
Operating Voltage Range: 24 to 280 V(rms) at 47 to 63 Hz.
Leakage current in OFF state: 10 mA max.
Operating Temperature: -40 to +80 °C.

SL124

Solid-State Relay output: Form A, normally open.
Load Current: 0.02A minimum to 3 Amps DC max. at 25 °C ambient.
Derate linearly to 0.75 Amp DC at 80 °C ambient.
Operating Voltage Range: 3 to 60V.
Operating Temperature: -30 to +80 °C.



Connection Information

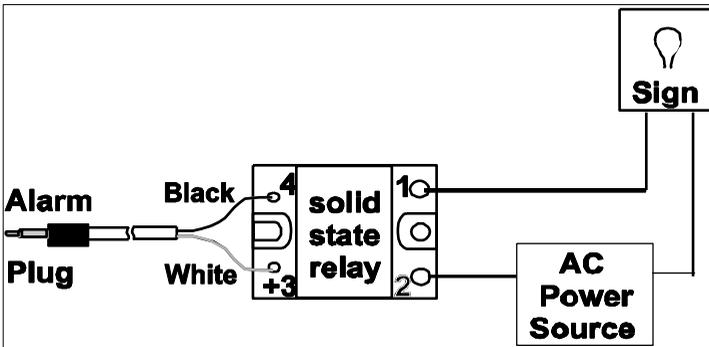
CAUTION: Installation must be done by a licensed electrician in compliance with the National Electric Code and any applicable regional or local wiring codes.

1. Mount the relay in a suitable enclosure.
2. Connect the Alarm Relay Trigger Cable to the Solid-State Relay control inputs using the screws and saddle clamps provided.
 - a) Black wire connects to terminal 4 (-).
 - b) White wire connects to terminal 3 (+).
3. Connect the output, terminals 1 & 2, in series with the intended load

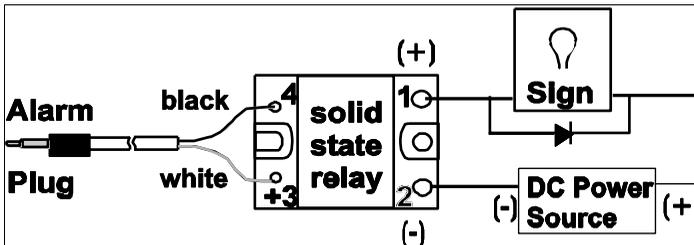
Note: For AC and DC applications, the input polarity must be observed

Note: For DC applications, the output polarity must be observed and inductive loads must be diode suppressed

AC Connections

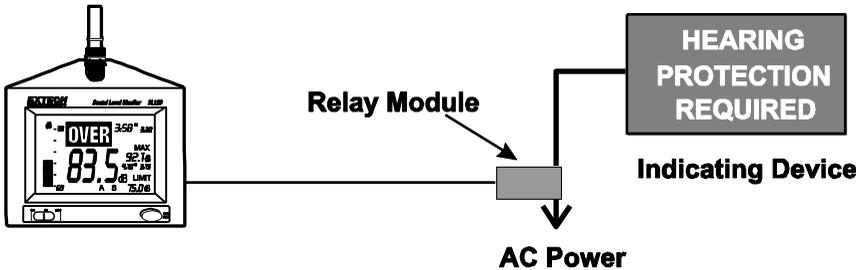


DC Connections



All loads are inductive, even ones that are not so labeled. An inductive load will produce harmful transient voltages when it is turned off. Diodes should be fast recovery type with PIV rated greater than supply voltage.

Typical Application



Warranty

EXTECH INSTRUMENTS CORPORATION (a FLIR company) warrants this instrument to be free of defects in parts and workmanship for **one year** from date of shipment (a six month limited warranty applies to sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department for authorization. Visit our website www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Calibration and Repair Services

Extech offers repair and calibration services for the products we sell. Extech also provides NIST certification for most products. Call the Customer Service Department for information on calibration services available for this product. Extech recommends that annual calibrations be performed to verify meter performance and accuracy.

Support lines: U.S. 877-439-8324, Intl. 603-324-7800

Technical support: Option 3; E-mail: support@extech.com

Repair & Returns: Option 4; E-mail: repair@extech.com

Product specifications subject to change without notice

Visit our website: www.extech.com

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