

Edco PHC Series

Two-Pair Signaling Circuit Protector (Modular)

■ Surge Protection
For *Business-Critical Continuity™*

The Edco PHC Series is designed to protect two pairs of wires specifically for alarm and security systems where operating currents can be as high as 5 Amps. Electrically, the Edco PHC Series is a rugged series hybrid implementing a staged complement of MOVs, copper wound inductors and Silicon Avalanche Diodes. This design reduces series resistance to 0.2 ohms per pair. These products are intended to mate with an Edco PCB1B-WKEY gold-plated female terminal connector.

The Edco PHC modules plug into a base assembly (Edco PCB1B-WKEY). The base assembly can be mounted to any flat surface and should be located as close as practical to the protected equipment. Terminal 1 and/or terminal 10 should be connected to Building-Approved Ground with 12 or 10 gauge solid wire.



EDCO PCB1B-WKEY BASE SOLD SEPARATELY



Features

- Three-stage hybrid protection
- Differential protection
- Common mode protection
- Plug-in module
- Automatic recovery
- Fast response time
- Continuous current up to 5 Amps
- UL 497B listed
- Requires Edco PCB1B-WKEY base
- PC642PTU (Pass Thru Unit) available for troubleshooting
- 5 year warranty

General Technical Specifications

Operating Voltage	12, 18, 24, 30, 36, 52, 70, 120 VDC
Clamping Voltage	15, 20, 30, 36, 43, 60, 100, 150 VDC
Operating Current	5 A
Peak Surge Current	10 kA (8 x 20 μ s)
Frequency Range	0 to 10 MHz
Insertion Loss	< 0.1 dB at 10 MHz
SPD Technology	MOV, SAD, w/Series Inductor
Connection Type	Terminal block w/compression lugs Terminals accept up to 10 AWG
Operating Temperature	-40°C to +85°C
Dimensions (Inches)	3.7H x 1.75W x 2.375L (PHC + PCB1B-WKEY Base)
Weight	8 oz
Certifications	UL 497B

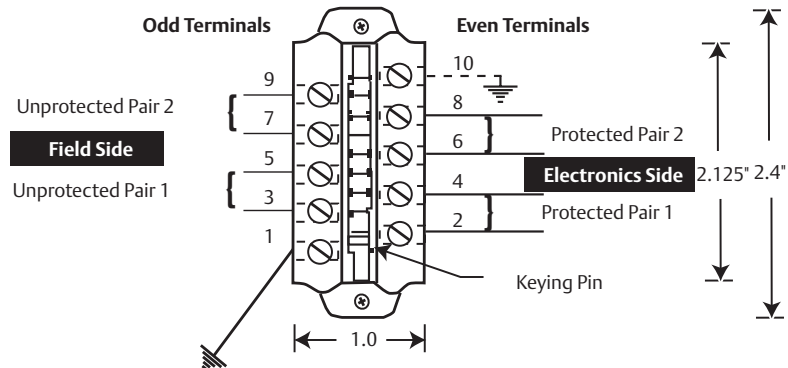
Caution

Do not place this product in service on any signal line capable of supplying more than 5 Amps continuously.

Installation Instructions

Terminal Assignments

PCB1B-WKEY



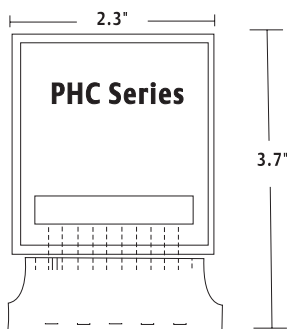
Ground Terminal 1 or 10 to Building Approved Ground.

DO NOT daisy chain grounds. NOT intended for shield termination.

Install ground in accordance with all applicable codes.

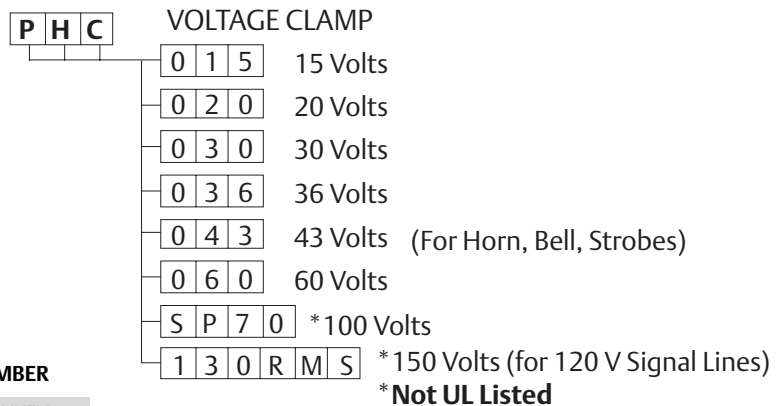
Ordering Information

Dimensions



PCB1B-WKEY

How to Specify the Appropriate Model



APPLICATIONS

24 V Horn, Strobe, Bell:

PHC-043 & PCB1B-WKEY

70 V Speaker Lines:

PHC-SP70 & PCB1B-WKEY

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