

# Power Relay Installation and Operation



Figure 1. Desco 19333 Power Relay

## Description

The Desco Power Relay controls power to workbenches, hand tools, and other electronic devices dependent on the status of the Desco Full-Time Continuous Monitor and Dual Operator Continuous Monitor. A single logic input signal controls one high-current SPDT AC relay. This one relay trigger signal switches three AC outlets simultaneously using a single-pole double-throw relay. One outlet is normally on. Two are normally off. A fourth outlet is unswitched. All outlets are protected against surges and overloads.

The Power Relay and its accessories are available as the following item numbers:

Item	Description
<a href="#">19333</a>	Power Relay
<a href="#">19334</a>	Replacement Power Relay Interface Cord

The Power Relay is compatible with the following item numbers:

Item	Description
<a href="#">19330</a>	Full-Time Continuous Monitor
<a href="#">19655</a>	Dual Operator Continuous Monitor

## Packaging

- 1 Power Relay
- 1 Interface Cord, 6'
- 1 Power Cord with North America Plug, 1.5'

## Features and Components

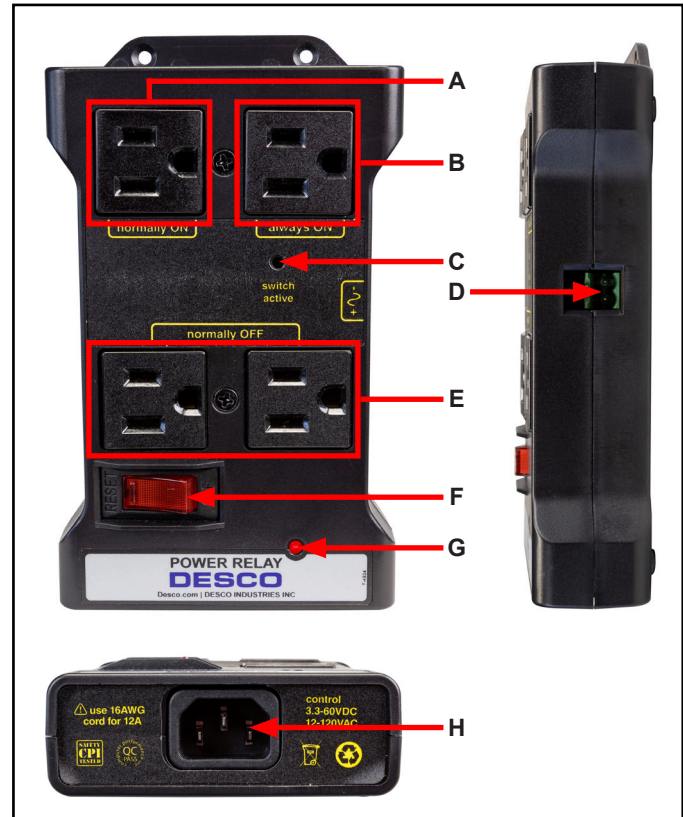


Figure 2. Power Relay features and components

- A. Normally On Receptacle:** Provides power unless the operator is connected to the Full-Time Continuous Monitor, and it reports all PASS conditions.
- B. Always On Receptacle:** Always provides power regardless of the Full-Time Continuous Monitor's status.
- C. Switch Active LED:** Illuminates green when the internal relay switch is activated.
- D. Interface Connector:** Use the included interface cable to connect the Full-Time Continuous Monitor to this connector.
- E. Normally Off Receptacles:** Provides power when the operator is connected to the Full-Time Continuous Monitor, and it does not report any alarm conditions.

**F. Power Switch:** Rock to RESET to turn on the Power Relay. Rock to OFF to turn off the Power Relay.

**G. Power LED:** Illuminates red when the Power Relay is powered.

**H. Power Inlet:** Connect the included power cord here.

## Installation

Pair the 19330 Full-Time Continuous Monitor or 19655 Dual Operator Continuous Monitor with the Power Relay to control power to workbenches, hand tools, and other electronic devices dependent on the monitor's status.

1. Determine the mounting location of the Power Relay. Locate it within reach of its included power cord. The Power Relay's mounting tabs may be to secure it onto a surface.
2. Connect the included power cord to the power inlet located on the side of the Power Relay. Connect the opposite end to an appropriate AC outlet.  
**NOTE: The Power Relay is only rated to accept 90-120 VAC input voltage.**
3. Connect the mono plug termination of the included interface cord to the continuous monitor. Connect the opposite end to the green connector on the side of the Power Relay.
4. Connect the power cord or power adapter from the continuous monitor to the Always ON receptacle on the Power Relay.
5. Connect the power cord of the external electronic device to one of the Normally OFF receptacles on the Power Relay.
6. Toggle the power switch to the RESET position. Both the continuous monitor and the Power Relay will power on.
7. This setup will power the external electronic device whenever an operator connects to the continuous monitor and no alarms are reported.

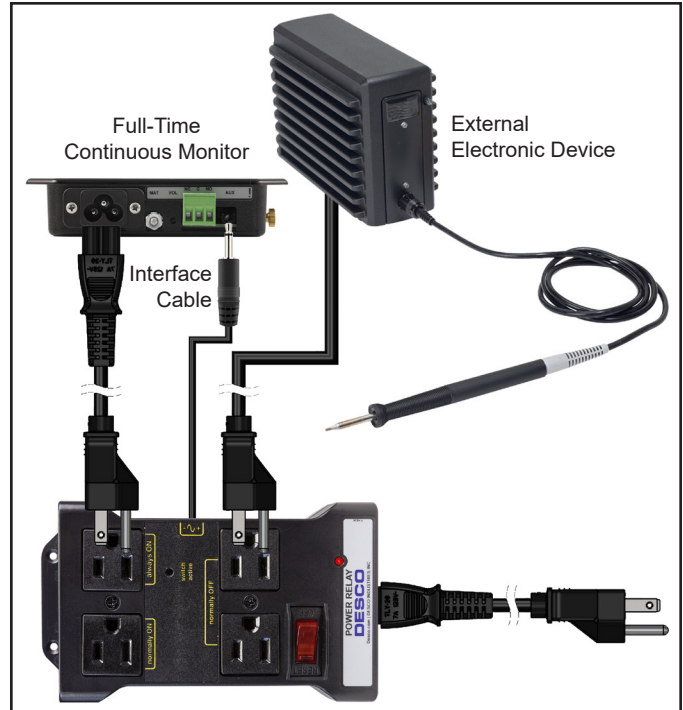


Figure 3. Installing the Power Relay with the 19330 Full-Time Continuous Monitor

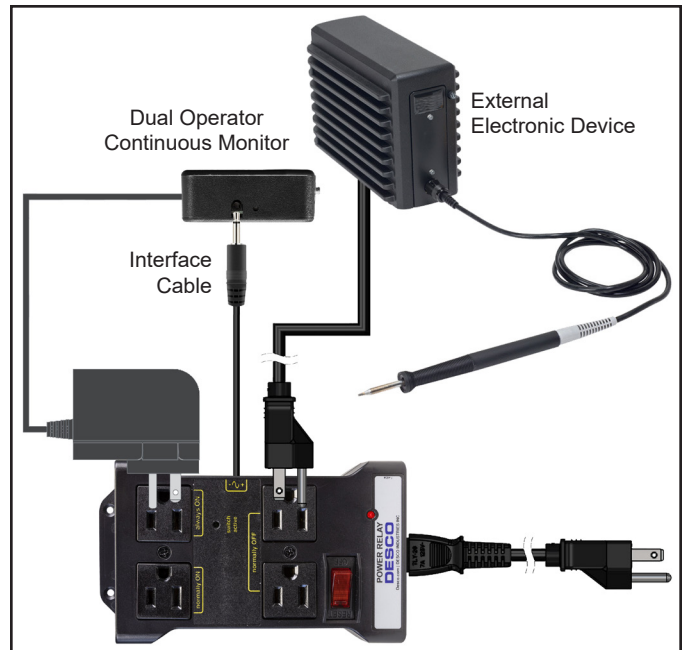


Figure 4. Installing the Power Relay with the 19655 Dual Operator Continuous Monitor

## Operation

1. Fit the wristband snugly onto the wrist.
2. Snap the wrist cord to the wristband.
3. Plug the wrist cord into the continuous monitor's operator jack. The green operator LED will illuminate. This indicates that the operator is properly grounded.
4. If this does not happen, examine the wrist cord for continuity or damage and the wristband to ensure that it fits securely. If you have dry skin, apply an approved dissipative hand lotion such as [Menda Reztore® ESD Hand Lotion](#).
5. When leaving the workstation, first touch the monitor's park switch or park snap. The monitor's audible alarm will disable for approximately 8 seconds. Use this time to disconnect the wrist cord from the wristband and attach it to the park snap without sounding a false alarm.
6. Upon returning to the workstation and disconnecting the wrist cord from the park snap, the monitor will provide approximately 8 seconds for the operator to reconnect the wrist cord to a worn wristband before sounding the monitor's alarm.

## Specifications

Input Voltage and Frequency	90-120 VAC, 50/60 Hz
Output Voltage	90-140 VAC
Max Load	12 A
Input Connector	C-13/C-14
Output Connector	4x NEMA 5-15
Outlet Types	2x Normally OFF 1x Normally ON 1x Always ON
Dimensions	6.7" L x 3.7" W x 1.4" H (170 mm x 95 mm x 35 mm)
Weight	0.7 lbs. (0.32 kg)
Power Cord Length	1.5 ft. (0.5 m)
Interface Cable Length	7 ft. (2.1 m)
Operating Temperature	-35 to 145° F (-37 to 63° C)
Environmental Requirements	5 to 95% RH non-condensing Indoor use only
Country of Origin	China

### Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the Desco Warranty - [Desco.com/Limited-Warranty.aspx](https://www.desco.com/Limited-Warranty.aspx)