



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Ionizer Motion Sensor Installation, Operation and Maintenance



Made in the United States of America



Figure 1. Desco [60509](#) Ionizer Motion Sensor

Description

The Desco Ionizer Motion Sensor is designed to automatically activate an ionizer when an operator is present at a workstation and turn off when the workstation is vacant. This product ensures that the ionizer is activated when required. It also conserves energy and increases maintenance intervals of the ionizer by deactivating it when the workstation is vacant. The Control Unit is capable of switching up to 5 amps at 120VAC and is fuse protected.

The Ionizer Motion Sensor consists of two components: the Sensor Unit and Control Unit. The control unit connects between the AC power cord and the ionizer power input using standard IEC type (C13/C14) connectors. The sensor unit is placed in a position to “detect” an operator up to three feet away. The sensitivity levels can be adjusted: low (12 inches), medium (24 inches) or high (36 inches). The Sensor Unit should be mounted flush with the front edge of the mounting surface whenever possible. This is done to prevent reflected light from the mounting surface. The two components communicate using a standard 6-pin modular cable.

The Ionizer Motion Sensor utilizes a unique infrared light and band pass filter to prevent interference from other light sources. The band pass filter uses a reflected infrared light with the specific frequency to sense the presence of the operator. It does not require continuous motion to remain activated. The deactivation delay time can be set to 1 minute, 10 minutes or 1 hour periods. This delay prevents the ionizer from turning on and off frequently if an operator is only away from the workstation momentarily.

The Ionizer Motion Sensor is compatible with the following 120VAC Desco ionizers:

Item	Description
60500	Chargebuster® Jr. Bench Top Ionizer
60505	High Output Bench Top Ionizer
60640	Chargebuster® 2-Fan Overhead Ionizer
60473	Chargebuster® 3-Fan Overhead Ionizer

Packaging

- 1 Sensor Unit
- 1 Control Unit, 120VAC
- 1 Modular Cable, 2'
- 1 Modular Cable, 7'
- 2 Hook and Loop Fastener Strips
- 2 Screws

Features and Components



Figure 2. Sensor Unit features and components



Figure 3. Control Unit features and components

- A. Power LED:** This LED will illuminate blue when an operator or object has activated the device.
- B. Infrared Emitter and Receiver:** Detects when an operator or object is present. Movement by the operator is not necessary.
- C. Communication Jacks:** Use the included modular cables to connect the Sensor Unit to the Control Unit.
- D. DIP Switch:** Use to adjust the sensor's sensitivity and deactivation delay time. See the installation instructions on page 2 for more information.

E. IEC C14 Style Inlet: Connect the ionizer's power cord here.

F. Fuse Drawer: Accepts 5A, 250V slow blow fuses.

G. IEC C13 Style Outlet: Connect into the ionizer's power inlet.

Sensor Configuration

The Sensor's sensitivity and deactivation delay time are controlled by the DIP switches located on the back of the Sensor Unit. Use the following tables for the DIP switch settings and their corresponding values.

NOTE: Be sure to disconnect the power from the Sensor Unit before making any changes to the DIP switch. Failure to do so may result in damage to the Sensor Unit.

SENSITIVITY

DIP switches 1-3 control the sensitivity of Sensor.

Switch 1	Switch 2	Switch 3	Sensitivity
ON	OFF	OFF	Low (0-12")
OFF	ON	OFF	Medium (12-24")
OFF	OFF	ON	High (24-36")

DEACTIVATION DELAY TIME

DIP switches 4-6 control the deactivation delay time.

Switch 4	Switch 5	Switch 6	Delay Time
ON	OFF	OFF	1 minute
OFF	ON	OFF	10 minute
OFF	OFF	ON	1 hour

default setting

Installation

1. Ensure that the ionizer does not exceed the maximum power rating of 120VAC, 5A. Insert the Control Unit into the ionizer's IEC power inlet.

NOTE: If using the Desco [60505](#) High Output Bench Top Ionizer, set its power switch to ON before connecting the Control Unit. The Control Unit covers its power switch.

2. Determine the mounting location of the Sensor Unit. Place it where only the operator can come into its field of view. Do not place it where a fixture or item can obstruct its line of sight. Use either the included hook and loop fastener strips or screws to secure the sensor to a surface. The Sensor Unit should be mounted flush with the front edge of the mounting surface whenever possible.
3. Use either the 2 foot or 7 foot modular cable to connect the Control Unit to the Sensor Unit.

4. Connect the ionizer's power cord to the Control Unit and the opposite end into an appropriate power outlet.

5. Turn on / power the ionizer.

Operation

Enter the sensor's field of view. The blue LED will illuminate upon activation. The ionizer will remain powered as long as something is in the sensor's view. Movement is not necessary.

Leave the sensor's field of view to activate the shutoff delay timer. The Ionizer Motion Sensor's LED will turn off and unpower the ionizer once the preset deactivation delay time is reached.



Figure 4. Using the Ionizer Motion Sensor with the [60505](#) High Output Bench Top Ionizer



Figure 5. Using the Ionizer Motion Sensor with the [60473](#) Chargebuster® 3-Fan Overhead Ionizer

Maintenance

The fuse located in the Control Unit may be replaced by removing the power cord and opening the fuse drawer at the IEC inlet. The Control Unit uses one 5A, 250V slow blow fuse. DO NOT use other ratings as it may pose a safety hazard.



Figure 6. Replacing the fuse in the Control Unit

Specifications

Maximum Input	5A @ 120VAC
Fuse	5A, 250V, Slow Blow
Operating Temperature	32°F - 104°F (0 - 40°C)
Sensor Unit Dimensions	3.0" x 2.0" x 0.9" (7.6cm x 5.1cm x 2.3cm)
Control Unit Dimensions	2.7" x 2.0" x 1.8" (6.9cm x 5.1cm x 4.6cm)
Sensor Unit Weight	0.1 lbs (0.05 kg)
Control Unit Weight	0.3 lbs (0.1 kg)

Limited Warranty

Desco expressly warrants that for a period of one (1) year from the date of purchase Desco Ionizer Motion Sensor will be free of defects in material (parts) and workmanship (labor). Within the warranty period, a credit for purchase of replacement Desco Ionizer Motion Sensor, or, at Desco's option, the Ionizer Motion Sensor will be repaired or replaced free of charge. If product credit is issued, the amount will be calculated by multiplying the unused portion of the expected one year life times the original unit purchase price. Call our Customer Service Department at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for a Return Material Authorization (RMA) and proper shipping instructions and address. Please include a copy of your original packing slip, invoice, or other proof of date of purchase. Any unit under warranty should be shipped prepaid to the Desco factory. Warranty replacements will take approximately two weeks.

If your unit is out of warranty, call our Customer Service Department at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for a Return Material Authorization (RMA) and proper shipping instructions and address. Desco will quote repair charges necessary to bring your unit up to factory standards.

Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of Liability

In no event will Desco or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.