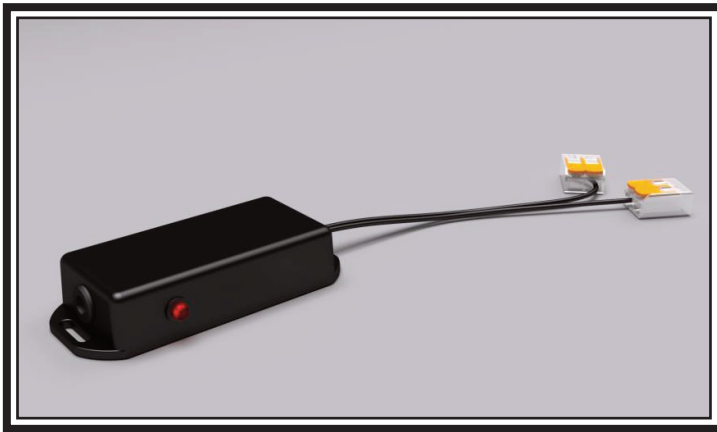


PRODUCT USER GUIDE

IONIC CONSTANT VOLTAGE INTERFACE



Rev: C2



MODEL COVERED: UFO IONIF-CV-DC-12-XX

PLEASE READ THIS USER GUIDE BEFORE INSTALLING, OPERATING
OR PERFORMING MAINTENANCE ON THE DRIVER UNIT



INTRODUCTION

Thank you for purchasing this low voltage UFO Constant Voltage Interface.

To ensure that the Interface is used correctly and gives a long service life, please read this user guide before installing, operating or performing any maintenance on the unit.

Please keep this user guide for future reference. This User Guide is laid out in three sections

- **INSTALLATION** – details how to connect your driver.
- **OPERATION** – details how to set up and operate your driver.
- **MAINTENANCE** – Maintenance log, Troubleshooting Guide, Technical Specification

WARNING

This interface is designed to work with Ionic constant voltage LED fittings operating on 12V output only. Connecting this driver to any other LED devices may result in catastrophic failure of the LED device and/or the Driver. Always check the total load of the Ionic LED fittings as detailed in Table 1 below, to ensure the total load capability of the Driver or PSU used with this Interface is not exceeded.

WARNING

When using the Global dimming configuration detailed above all local dimming controls on the Ionic LED fittings must be set to maximum to avoid interference effects on the global dimming.

This Ionic Interface is suitable for indoor/dry areas and must not be installed in damp or wet conditions.

IMPORTANT

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT, ITS COMPONENT PARTS AND THE HAZARDS INVOLVED.

ELECTRICAL WIRING AND CONNECTION MUST BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON OBSERVING ALL LOCAL AND STATUTORY ELECTRICAL AND SAFETY REGULATIONS.

Ionic Fitting	Wattage at 12V DC	Max. Fittings with 60W PSU	Max. Fittings with 90W PSU
SX	1.6W	31	48
MX	2.8W	17	28
LX	3.4W	14	25

TABLE 1

MODELS COVERED BY THIS USER GUIDE: UFO IONIF-CV-DC-12-XX

The Ionic Interface is a compact plug through unit designed to provide an interface between proprietary 12V LED drivers/PSUs and UFO Ionic magnetic extrusion and Ionic magnetic LED fittings. The Ionic Interface supports the following two system configurations:

- Global dimming only - connected to a 12V driver with dimming control provides global dimming (all LED fittings dimming together) but DOES NOT support local dimming at each Ionic LED fitting.
- Local dimming only - connected to a 12V PSU (no dimming control) provides local dimming (all LED fittings dimming individually) but DOES NOT support global dimming

Constant current LEDs cannot be connected to this driver. Please refer to the specific section within this manual for wiring/connection guidance.

FIGURE A

CONNECTION

There are three connections required for an Ionic system using the Ionic Interface – The Ionic LED fittings, the fitting extrusion 12V power in cable and the driver/power supply connections.

- The magnetic Ionic LED fittings must be fitted into the extrusion first. The fitting's magnetic attraction to the track allows them to be freely placed, moved, slid and removed without any interference from wires or cables. The fittings are not polarity conscious which means they can be placed on the track at any point pointing in any direction. At this stage all local dimmers on the fitting body must be checked to ensure they are set to maximum (fully clockwise) using a suitable screwdriver (flat blade 2mm screwdriver recommended).
- The 12V power in cable should then be connected before the driver. Connect the power in cable to the lever terminals as detailed in Figure B, observing correct polarity (Red/Yellow +ve, Black/Green -ve). To connect, lift WAGO terminal lever, strip outer insulation of connecting wire back 11mm – insert wire fully into terminal and lock the lever. Note the WAGO terminal will accept wire diameters 0.2 ... 4 mm² / 24 ... 12 AWG
- The Ionic Interface is powered from an external 12V PSU or LED driver with 2.1mm output jack plug (centre +ve). Connect the jack plug into the socket on the Ionic Interface, connect the 12V PSU or LED driver to the mains supply and switch on. The Ionic system is now ready for use. If the Ionic fittings fail to illuminate consult the Troubleshooting Section in this manual.

An Overall schematic of an Ionic Interface system is shown below in Figure A. This system configuration depending on the driver or PSU used, provides for either local or global dimming.

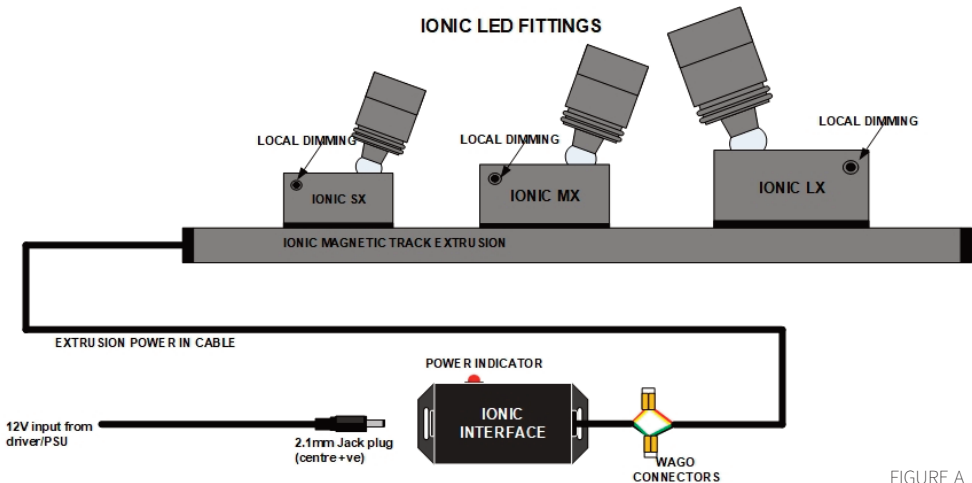


FIGURE A

WARNING

Connecting too many Ionic LED fittings to a Driver causing excessive load or using an underrated 12V PSU will result in the system shutting down and may cause damage to the driver circuit.

Always check the maximum output power of the fittings and ensure that based on the maximum load of the PSU/Driver, a suitable number of fittings are connected (see Table 1), and a correctly rated PSU for the driver load is selected, prior to powering up the system.

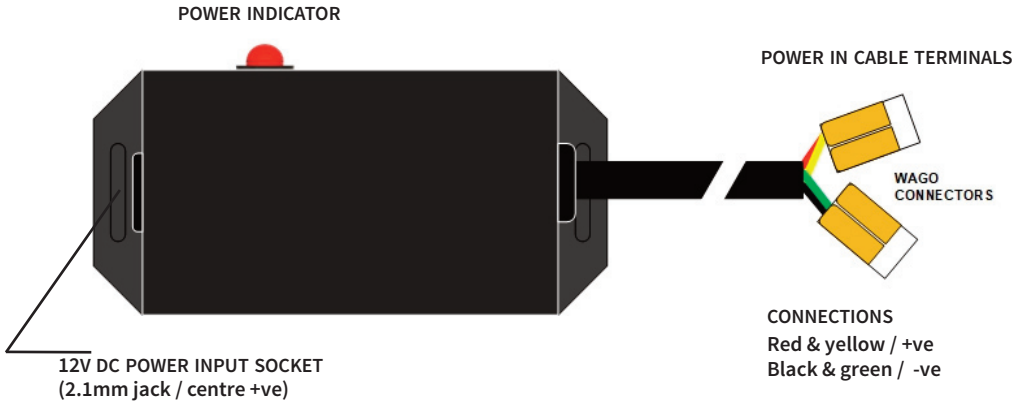


FIGURE B

OPERATION

Once the Driver/PSU is connected to the IONIC Interface and the Ionic LED fittings connected and powered up the Ionic system can be dimmed as follows:

EITHER

1. Local dimming at each Ionic fitting. Using a suitably sized screwdriver (flat blade 2mm screwdriver recommended) set the light output level of each individual fitting using the local dimming control as detailed in Figure C.

OR

2. Global dimming at the driver with all local dimming controls at the Ionic LED fittings set to maximum.

WARNING

Either global (at the driver) or local (at the Ionic fittings), never both. Using both dimming methods will seriously impact on the dimming quality of the system.

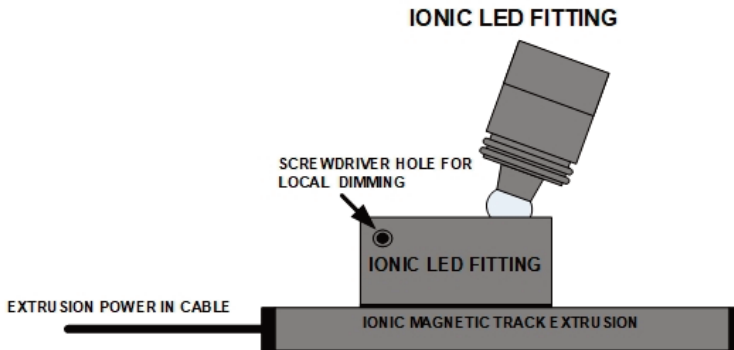


FIGURE C

MAINTENANCE LOG

Date	Maintenance Undertaken

NOTE

A record of all maintenance MUST be kept in the table above, indicating what maintenance was undertaken and when. This MUST be dated for warranty purposes.

Problem	Probable Causes	Remedy
System is dead- red power LED on Ionic Interface not lit, no light output from LED fittings	Mains supply off	Check supply & reinstate
	Loose mains plugs	Check plugs
	Input jack plug incorrectly wired. PSU/driver failed - check output with DVM	Check all connections Check wiring & repair Replace PSU/driver
No light output from LED fittings -power LED on Ionic Interface lit	Loose wire or poor connection on power output cable connection to Interface	Check all connections
	Ionic fittings local dimming at minimum	Turn local dimmers up to maximum
	Dimming driver global dimming at minimum	Turn global dimmers up to maximum
Ionic spotlights flickering when global dimmer control is used	Local dimming controls on Ionic spotlights not at maximum	Turn all Ionic spotlight local dimming controls to maximum

TECHNICAL SPECIFICATIONS

Product Name	UFO Ionic Interface
UFO Product Code	UFO IONIF-CV-DC-12-XX
Description	Interface for interconnection of PSU or LED driver to Ionic system
Input Supply	12V DC
Rated Power	Dependant on maximum output of PSU or LED driver
Output Voltage	12V DC
Connection	Power - 2.1mm input jack plug / Output – WAGO 4mm lever terminals
IP Rating	IP20 for indoor use only
Dimensions	80mm (3.2") x 40mm (1.6") x 20mm (0.8")



DESIGN



SPECIFY



BUILD



INSTALL

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