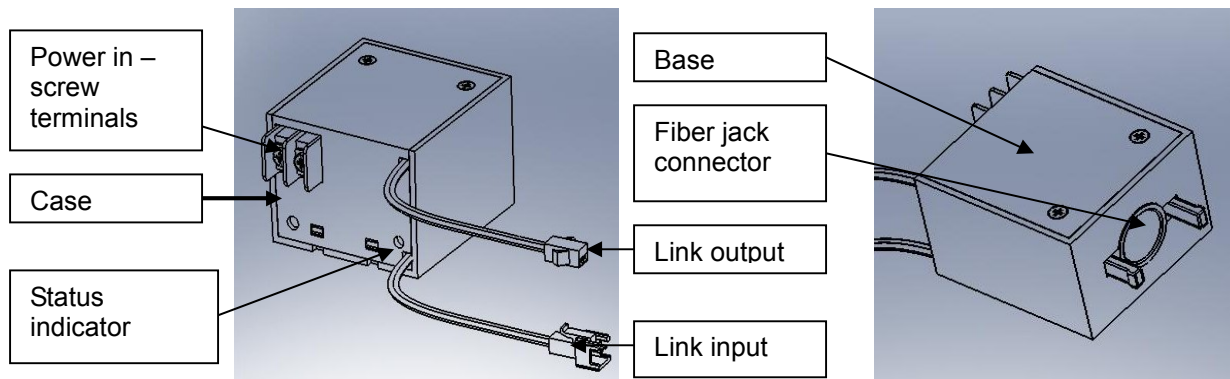


Single Colour LED Fiber Optic light source (Model.No: W01)

0. Description:



1. Input power source:

1.1 Input power requirement:

110V-220V. 50~60HZ PSU. Power requirement: 3W/ one unit.

Example: Required light source = 20 units. Power input requirement is 60W
(20 unit x 3W = min. 100W)

1.2 Power supply specification: Output Regulated DC: 10V~35V or AC: 9V~24V

Note: Any transformer output complying with the above specification can be used.

Each light source unit maximum current is 0.2A. The required transformer output current is dependant on the light source unit link quantity.

Example: Required link light source unit is 12.

The Transformer output needs 3.0A at least. (12 units x 0.2 = 2.4A. 2.4/80%=3.0A 80% is engineer safety coefficient)

1.3 Light source unit power:

There is a screw terminal on the light source unit to connect the power supplies output.

Note: Each unit should be linked in parallel (i.e. each units power comes directly from the power supply).

IF IN ANY DOUBT PLEASE CONTACT US.

2. Output light specification:

2.1 LED Single colour light source.

2.2 Coupling optical fiber : 1.0mm dia.= fiber 250 pieces. 3.0 mm dia. = aprpx 30 pieces

3. Function/Features:

3.1 Primary or secondary function:

Each light source unit can be independent or linked with up to 20 other units (Primary unit: Status indicator Continuous light) or linked (Secondary unit : Status indicator flashes (Depending on the data connector being linked or not).

3.2 Light source unit link quantity:

Each light source unit maximum current is 0.2A. The link quantity is dependent on the Transformer output current (mA)of the power supply.

The link current amount must not exceed 80% of the transformers output current.(see 1.2 example).

Maximum link quantity is 20 units.

Note: The input and output wires on each unit are for function/mode control only. For power, each unit should be linked in parallel (i.e. each units power comes directly from the power supply)

3.3 Primary or secondary unit option:

When a secondary units input connector is linked to the output of the primary or previous other Secondary unit, It will maintain this units operating function / mode.

3.4 Operating modes / function button:

The light source unit includes five bright modes. It can be set up by pressing the function button. The five modes are:

- 1). Constant: The light output remains constant.
- 2). Speedy flash: The light flashes four times each second.
- 3). Slow flash: The light flashes once each second.
- 4). Step: The light steps (fades from light to dark)The cycle time is twenty seconds.
- 5). Mix : Each of the above 4 modes is cycled through then repeated.

Note: The modes are not memorized, and will revert back to constant mode if the units/s are switched off. If no button is connected the unit will also remain fixed in constant mode

4. Technical specifications:

1. Power : 2W./200mA.
2. Input : DC10V~35 or AC9V~24V.
3. Output : white color.(Model no : W01)
4. Fibers: 250 @ 1mm dia., 30 @ 3mm
5. Link: Primary or secondary option
- 6.Modes: x5. No Memory
- 7 .Light output area:6.5x5.5x3.8cm
8. Net weight: 70 gram.
9. Link quantity: Max 20 units
10. Link distance: one to one = 3 meters.

Note: This Unit is not waterproof!

Available in White, Blue (stock items), Green, Red, Yellow, Cyan , Pink and RGB available to order.

Fiber diametres available: 1mm and 3mm pre-installed in Jack @ Each fiber is one metre length. Custom fiber diametre, lengths and reels available to order.

Fiber is made from rigid clear polycarbonate but flexible enough to bend. They can be cut and the ends polished flat and smooth (for this we recommend something like a dremmel mulitool and very fine grit silver oxide (wet and dry) paper 800 to 1500 grit (papers used for final polishing/finishing of car body repairs are ideal) . Cut unused fibers short and dot the ends of unused fibers with White acrylic paint (paints used for models are good for this) to stop the light emitting.