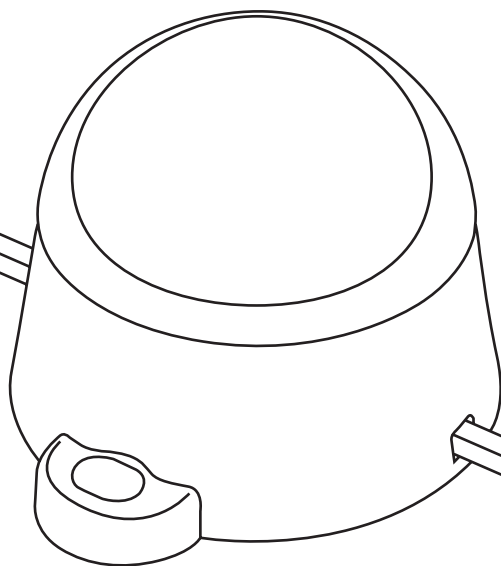


Defender
POWER AND LIGHT

LED MODULE FESTOON

Safety, operation &
maintenance instructions



E89816

E89817

E89818

Thank you for buying the Defender LED Module Festoon.

Designed and manufactured to the highest of standards to ensure a robust and long life, we hope it provides you with many years of trouble-free, safe and reliable service. It is suitable for both indoor and outdoor operation.

IMPORTANT SAFETY INSTRUCTIONS

This instruction booklet contains vital information for the safe use and operation of the Defender LED Module Festoon. Carefully read and understand all instructions before use. Failure to adhere to the instructions could result in serious personal injury or property damage. In addition, you should follow all warnings and instructions affixed to your Defender LED Module Festoon.

This product has been carefully designed for its intended purpose and must not be modified in anyway. Any alteration may compromise safety, as well as invalidate Technical Production Approvals and your insurance.

KEEP THIS BOOKLET FOR FUTURE REFERENCE.

SAFETY INFORMATION

The Defender LED Module Festoon light is designed and manufactured to robust standards. Correctly installed it is suitable for both internal and external use.

- On unpacking the festoon it should be inspected for any damage
- The installation should be entrusted to a competent person who if in doubt, must refer to a qualified electrical engineer
- The LED lamp modules are sealed for life and must not be modified in any way. Any alterations may invalidate product approvals and your insurance
- Check electrical cable for damage/abrasions before each usage
- Do not illuminate when in a coil or enclosed

INTENDED USE

- This product is not intended for permanent installation.
- The Festoon String is for indoor use. Do not expose to harsh or excessively corrosive environmental conditions (whether indoors or outdoors), including, but not limited to, extreme temperatures, humidity, atmospheric conditions (including salinity or pressure), radiation (UV, infrared or nuclear), shock.
- ALWAYS terminate the open end of your string when being used near moisture. Keep it away from water, solvents and chemicals. Take care to site it away from potential water hazards, for example, do not install it beneath pipes that are subject to condensation. Avoid installing it where excessive humidity and condensation may occur
- Never connect the product to a dimmer.
- Make sure to replace the fuse with another of the same type and rating, where applicable.
- Never carry the product from the power cord or any moving part. Always use the hanging/mounting bracket.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance centre.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.

INSTALLATION

- The festoon should be positioned such that it does not cause an obstruction to personnel or machinery
- Do not connect to the power source until the festoon is fully fitted into position
- The first LED module should be positioned to provide adequate cable length to the supply point, and should be suitably secured by strapping or similar restraint
- Where practical each LED module should be held in position, 2 fixing holes are provided. When not practical it is recommended that a cable tie is used on each side of the module
- Connection to the power source must be done with care
- Ensure no personnel are in contact with the festoon and switch on. Immediately check each LED module to satisfy that no danger is present
- Disconnect the festoon from the power supply before removing or moving the festoon
- Protect power cord from contact with sharp objects, chemicals or hot surfaces
- Do not remove plug from mains supply by pulling on power cord

MAINTENANCE

A daily check is recommended to inspect for any physical damage or abrasions to the power cables. Ensure there is no visible damage to the LED Module Festoon and that all connections to the power source are good.

SPECIFICATION DATA

VOLTAGE	110V~	240V~
PART NUMBER	E89816	E89817
DESCRIPTION	22M LED MODULE FESTOON	22M LED MODULE FESTOON
FREQUENCY	50Hz	50Hz
PLUG TYPE	16A	13A
POWER CORD LENGTH	3M THEN 2M SPACING BETWEEN 10 LED LIGHT MODULES	3M THEN 2M SPACING BETWEEN 10 LED LIGHT MODULES
POWER CORD	110V - H05VH2-F, 2G 0.75mm ²	110V - H05VH2-F, 2G 0.75mm ²
IP RATE	IP44	IP20
OPERATING TEMPERATURE	-20°C ~ 40°C	-20°C ~ 40°C

VOLTAGE	110V~	
PART NUMBER	E89818	
DESCRIPTION	50M LED MODULE FESTOON	
FREQUENCY	50Hz	
PLUG TYPE	16A	
POWER CORD LENGTH	3M THEN 2.4M SPACING BETWEEN 20 LED LIGHT MODULES	
POWER CORD	110V - H05VH2-F, 2G 0.75mm ²	
IP RATE	IP44	
OPERATING TEMPERATURE	-20°C ~ 40°C	



Conforms to relevant legislation and safety standards.



Environmental Protection Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.



Class II construction (double insulated for additional protection)