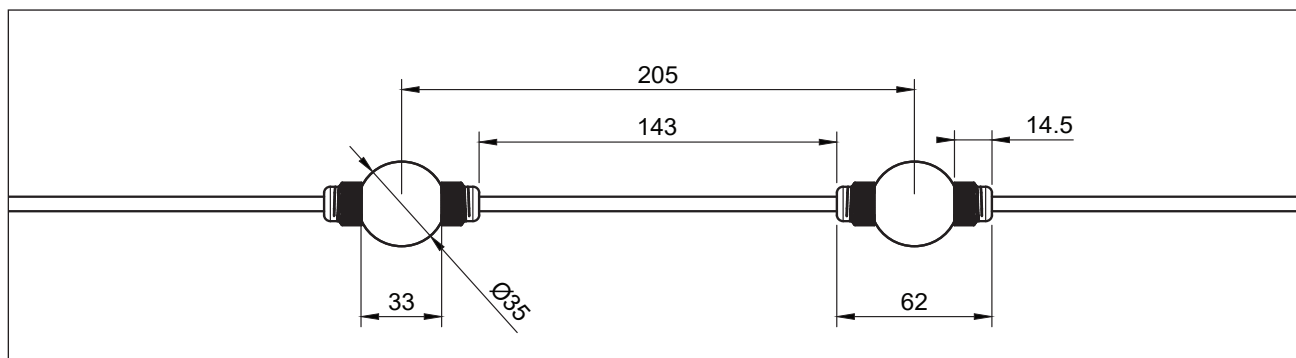
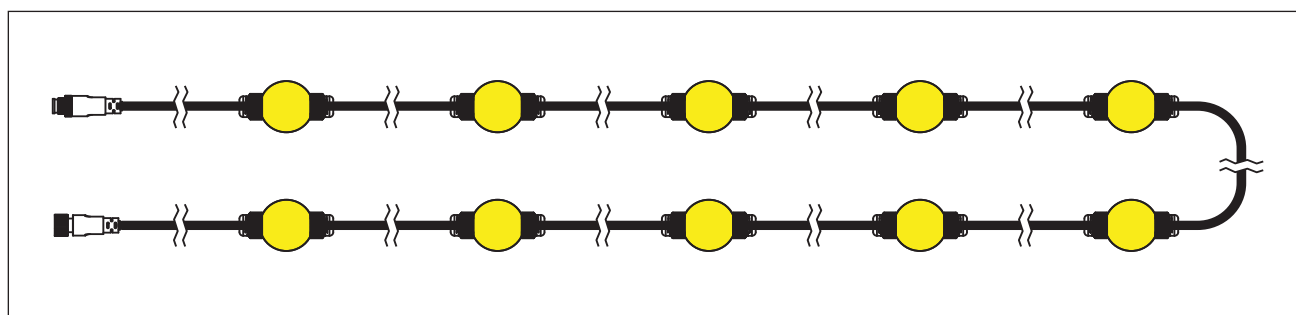


Chronos by Tagra | Pixel LED String Lights

DIMENSIONS



DIAGRAM



IMPORTANT INFORMATION

- Please read these instructions carefully before installation or operation.
- Retain this manual and cable tag for future reference.
- This product should be installed in accordance with local IEE wiring regulations and building regulations.
- Ensure mains supply is disconnected before installation.
- Ensure others cannot restore the electrical power supply without your knowledge.
- Do not connect directly to mains electrical supply. Ensure correct polarity before powering.
- This product must be used with a good quality SELV constant voltage LED driver and compatible SPI pixel controller.
- Ensure that the voltage output of the driver matches rated voltage of the LED product.
- Ensure that the power capacity of the LED driver is greater than the total load of all the LED products connected to it.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.
- Do not open, modify, or repair the unit. No user-serviceable parts inside.
- Do not install or use the product if it is damaged.
- The LED light source is non-replaceable. When product reaches its end of life the light source shall be replaced.

INSTALLATION GUIDELINES

ELECTRICAL

- Connect to a good quality SELV constant voltage LED driver. Connect polarity and data input correctly.
- Plug the connector from the controller output into the corresponding connector on the LED product.
- Ensure controller IC type matches the LED product specification.
- Fit a suitable fuse or circuit protection between driver and LED product (as close to driver as possible).
- Keep signal cable between controller and first pixel $\leq 5\text{m}$; use amplifier beyond 5m.
- Ensure that the total current used does not exceed the maximum capacity of the controller and cabling.
- Do not exceed a maximum connected string length of 6M.

MECHANICAL

- Fully uncoil all cables.
- Do not twist, crush or tightly bend connecting cables.
- Protect cables from mechanical stress and strain. Seal all unused connectors and end caps after installation.
- Do not use the LED product as a structural load-bearing element.
- Take care not to dislodge any components during installation.
- Ensure that wires connecting the LED product cannot be pulled.
- Provide strain relief at controller and first pixel; protect cables from pull.

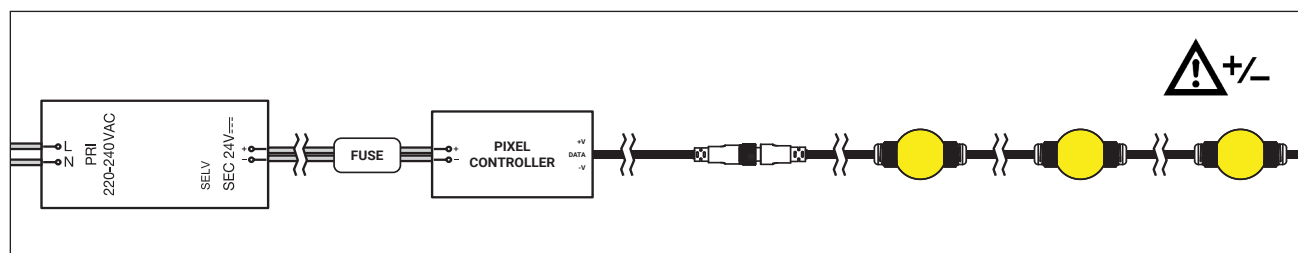
ENVIRONMENTAL

- IP67 (potted construction)
- Only install in a location free from chemicals, corrosives, gases and flammable materials.
- Ensure gaskets and seals remain intact for ingress protection.
- Not suitable for permanent outdoor installation.
- Suitable for outdoor use. Maintain connector seals and end caps to preserve ingress protection.

MAINTENANCE

- Before cleaning or maintenance, ensure the LED product is disconnected from the mains.
- Clean only with a dry, soft cloth.
- Do not use chemical cleaners or solvents.
- Do not open, modify, or repair the unit. No user-serviceable parts inside.
- Inspect connectors and seals regularly.

WIRING



Wire Colour	Controller
Red	DCV+
Green	DI (Data In)
Blue	DO (Data Out)
Black	GND-

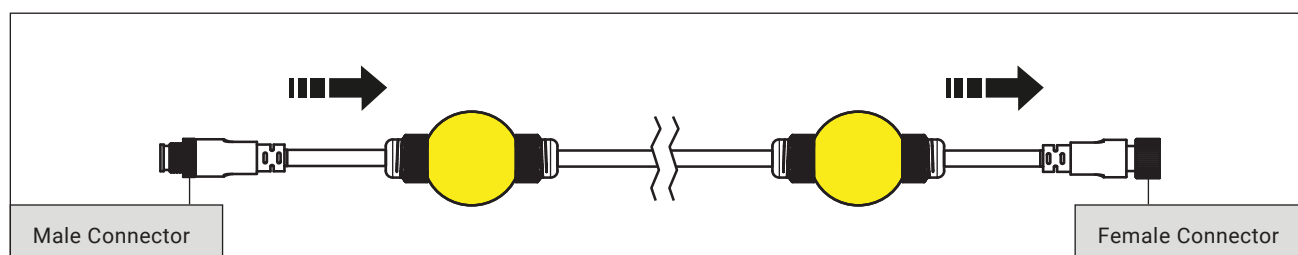
WARNING: This product must be installed by a suitably competent person. Check polarity (+/-) is correct before turning on.



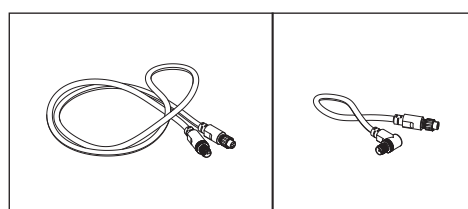
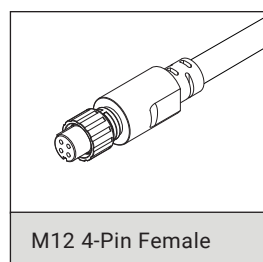
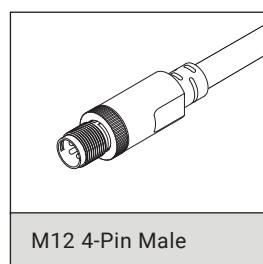
WARNING: Never connect DATA to +V.

SIGNAL FLOW

- Signal flows through the string lights from the male end towards the female end.
- Signal Load Limit: Each signal output should control no more than 1024 pixels.
- For installations where more than 5 metres of cable is used, boost the signal using an amplifier.
- Only use the recommended accessories.

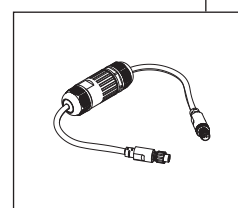
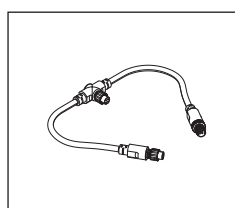


CABLING



Extension Cable	Desc
TC-PA-EXT0.2	0.2M, Right Angle
TC-PA-EXTF0.5	0.5M, Extension
TC-PA-EXTF1	1.0M, Extension
TC-PA-EXTF2	2.0M, Extension
TC-PA-EXTF3	3.0M, Extension
TC-PA-EXTF5	5.0M, Extension

Amplifier	Desc
TC-PA-10M-EXT	For installs of 5M+



T Cable	Desc
TC-PA-1-T-Cable	1pc T-Junction Cable
TC-PA-5-T-Cable	5pc T-Junction Cable

TROUBLESHOOTING

Q String lights don't respond to controller

A Check that the data output of the controller is connected to the data input of the string lights, not the output.

Q String lights don't respond to controller

A Check that the input power of the controller is the same as the input power of the string lights (24V).

Q The string lights are on but the animation is distorted

A Check that the IC type setting on the controller matches the IC type of the LED string lights.

Q String lights produce single colours but animation is distorted.

A Check that the GND of each string light is connected to the GND on the controller.

Check that the length of the cables between the controller and data-in on the string lights is shorter than 5 metres. For more than 5 metres, use an amplifier.

PRODUCT WARRANTY

1. A warranty period is provided for products in normal use. For any faults arising during the period that are confirmed to be quality related by inspection by the company, a product of the same specification will be replaced for free.
2. The warranty does not cover any of the following:
 1. Any product damage due to usage not allowed in the instructions.
 2. Any product damage due to disassembling or wrong operation by the user.
 3. Severe appearance damage or deformation of the product.