LIGHTPRO 144A Transformer Timer and Light Sensor User Manual

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Contents

Introduction

Thank you for purchasing the Lightpro Transformer + Timer / Sensor. This document contains the required information for correct, efficient and safe use of the product.
Read the information in this manual carefully before using the product. Keep this manual near the product for consultation in the future.

SPECIFICATIONS

- **Product**: Lightpro Transformer + Timer / Sensor
- **Article number**: Transformer 60W – 144A Transformer 100W – 145A
- **Dimensions (H x W x L)**: 162 x 108 x 91 mm
- **Protection class**: IP44
- **Ambient temperature**: -20 °C tot 50 °C
- **Cable length**: 2m

PACKAGING CONTENT

[1]

[2]

[3]

[5]

[4]

1. Transformator
2. Screw
3. Plug

4. Cable lugs
5. Light sensor

60W transformer

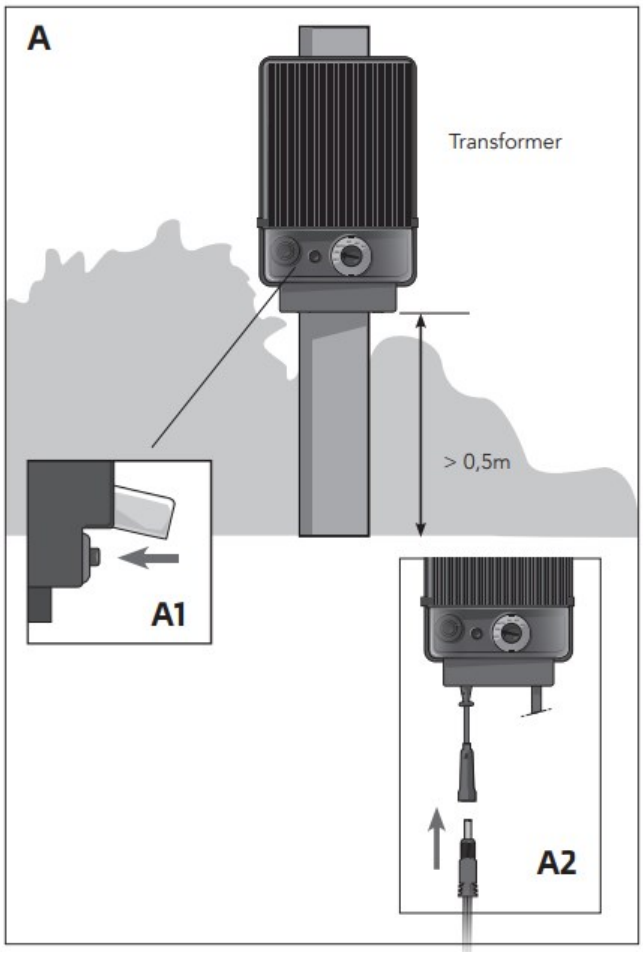
Input: 230V AC 50HZ 70VA
Output: 12V AC MAX 60VA

100W transformer

Input: 230V AC 50HZ 120VA
Output: 12V AC MAX 100VA

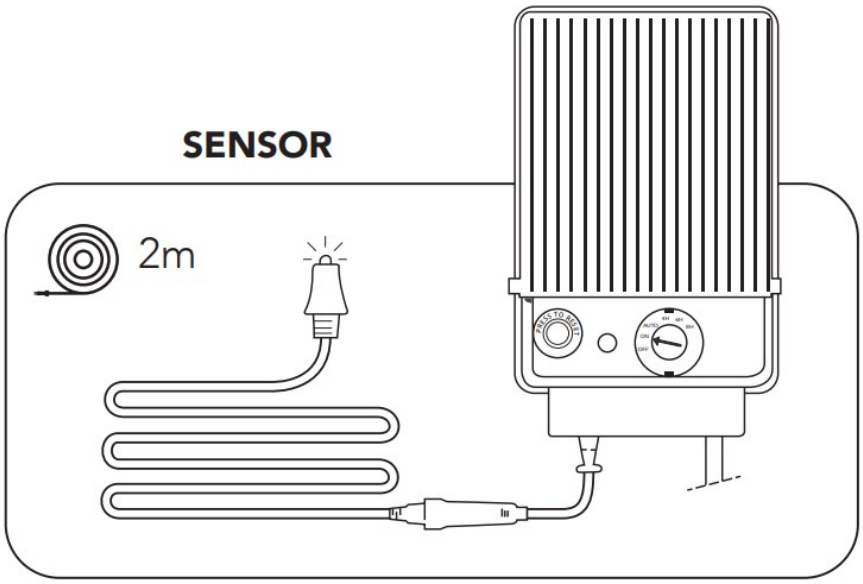
Check if all parts are present in the packaging. For questions about parts, service, and any complaints or other remarks, you can always contact us.
E-mail: **info@lightpro.nl**.

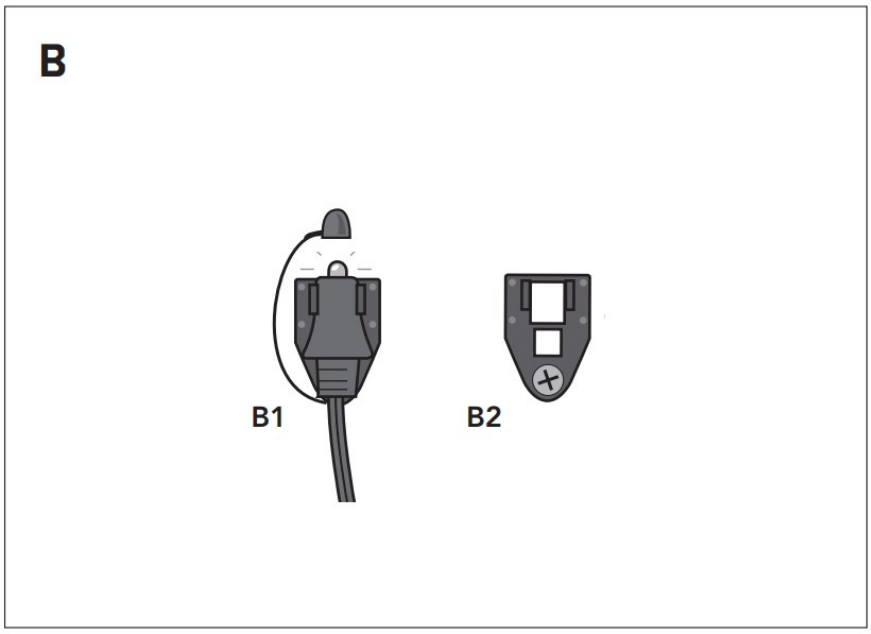
INSTALLATION



Mount the transformer with the setting knob pointing downwards **<Fig. A>**. Attach the transformer to a wall, partition or pole (at least 50 cm above the floor). The transformer is equipped with a light sensor and a time switch.

Light sensor



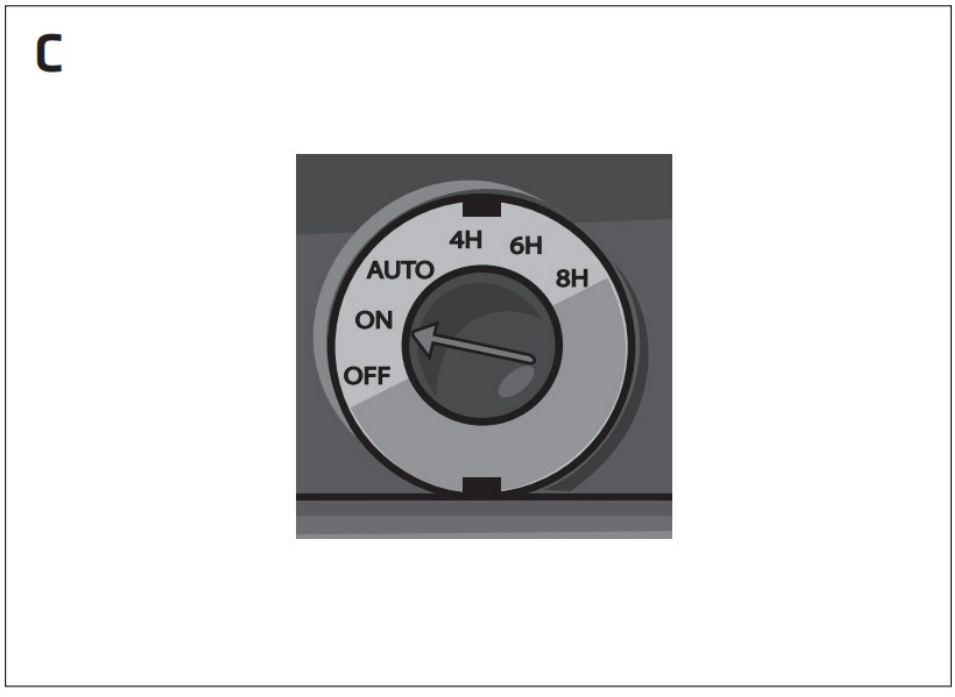


<**Fig. B>** The light sensor is fitted with a 2 metre long cable. The cable with sensor can be disconnected, for instance to be led through a hole in the wall. The light sensor <Fig. B1> is mounted with a clip <Fig. B2>. This clip must be attached to a wall, pole or similar. We advise to install the light sensor vertically (facing upward). Mount the sensor to the clip and connect the sensor to the transformer <Fig. A2>.

Mount the light sensor in such a way that it cannot be influenced by light from the outside environment (car headlights, street lighting or the own garden lighting, etc.). Ensure that only day and night natural light can influence the functioning of the sensor.

Should the 2 metre cable not suffice, then the sensor cable can be lengthened by use of an extension cord.

Setting the transformer



The transformer can be set in different ways. The light sensor <Fig. B1> works in combination with the time switch <Fig. C>. The lighting switches on at sunset and switches off after the set number of hours or automatically at sunrise.

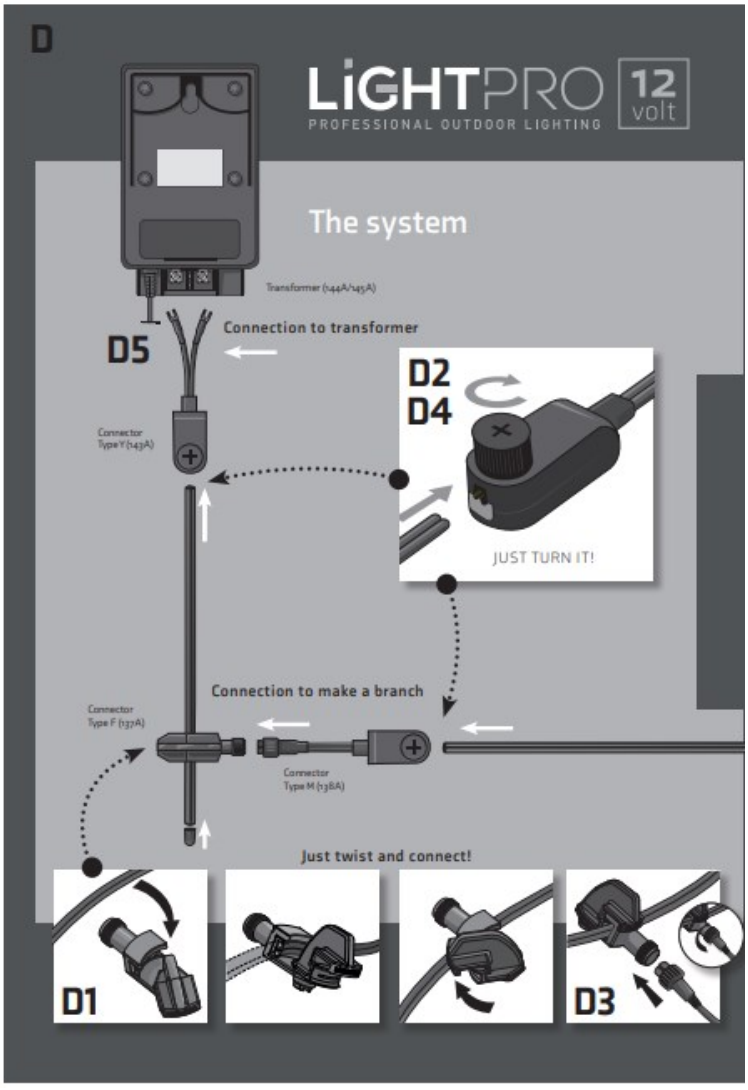
- “Off” switches the light sensor off, the transformer switches off completely
- “On” switches the light sensor on, the transformer is on continuously (this may be necessary for testing during day hours)
- “Auto” switches the transformer on at dusk, the transformer switches off at sunrise
- “4H” switches the transformer on at dusk, the transformer switches off automatically after 4 hours
- “6H” switches the transformer on at dusk, the transformer switches off automatically after 6 hours
- “8H” switches the transformer on at dusk, the transformer switches off automatically after 8 hours

Location of the light/dark sensor

The light sensor might be influenced by artificial light. Artificial light is light from the surroundings, such as light from the own home, light from street lights and cars, but also from other outside lights, for instance a wall light. The sensor does not signal the “dusk” in case artificial light is present and will therefore not activate the transformer. Test the sensor by covering it, using the included cap <Fig. B1>. After 45 seconds, the transformer should be activated, turning on the lighting

First check if all lights are functioning before deciding to bury the cable in the ground.

THE SYSTEM



The Lightpro cable system consists of a 12 volt cable (50, 100 or 200 metres) and connectors. When connecting

the Lightpro light fixtures, you must use the Lightpro 12 volt cable in combination with the 12 volt Lightpro transformer. Apply this product within the 12 Volt Lightpro system, otherwise the warranty will become invalid.

The European standards do not require the 12 volt cable to be buried. In order to prevent damage to the cable, for instance while hoeing, we recommend to bury the cable at least 20 cm deep.

On the main cable (article numbers 050C14, 100C14 or 200C14) connectors are connected to link the lighting or to make branches.

Connector 137A (type F, female)

<Fig. D1> This connector is included with every fixture as a standard and is supposed to be connected to the 12 Volts cable. The fixture plug or the male connector type M is connected to this connection. Connect the connector to the cable by means of a simple twist.

Make sure that the 12 volt cable is clean before a connector is connected, to prevent poor contact.

Connector 138 A (type M, male)

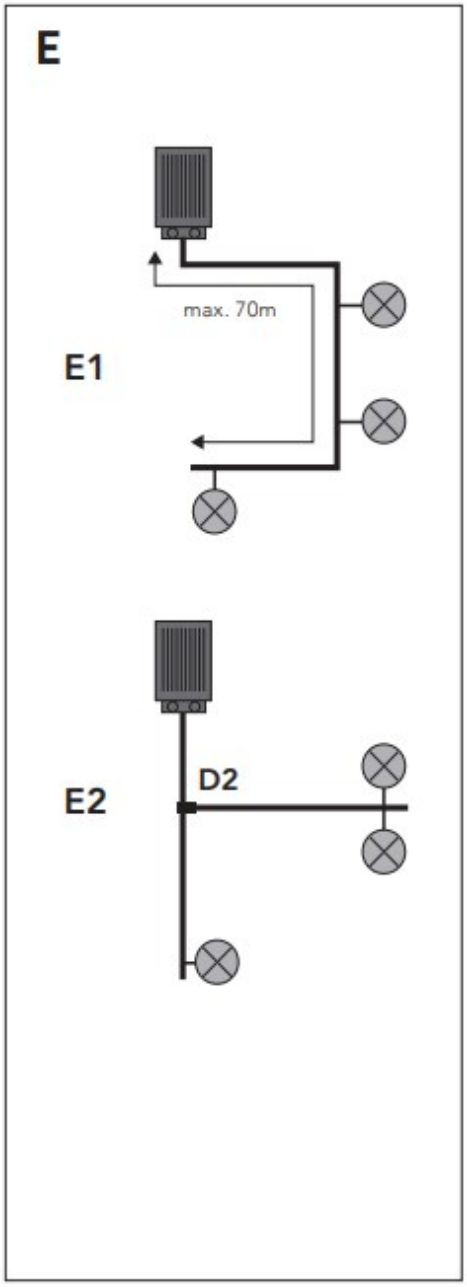
<Fig. D2+D3> This male connector is attached to the 12 volt cable in order to be able to connect the cable to the female connector (137A, type F), with the aim to make a branch.

Connector 143A (type Y, connection to transformer)

<Fig. D4+D5> This male connector is attached to the 12 volt cable in order to be able to connect the cable to the transformer. The connector has cable lugs on one side that can be connected to the clamps of the transformer.

CABLE

LAYING A CABLE IN THE GARDEN



Lay the main cable through the entire garden. When laying the cable, keep the (planned) paving in mind, ensure that later on lighting can be fitted in any position. If possible, apply a thin PVC tube under the paving, where, later on, a cable can be led through.

Should the distance between the 12 volt cable and the fixture plug still be too long, then a (1 m or 3 m) extension cord can be used to connect the fixture. Another way of providing a different part of the garden with main cable is to make a branch on the main cable which is connected to the transformer.

We recommend a cable length of 70 metres at most between the transformer and the light fixtures <Fig. E1>.

Making a branch on the 12 volt cable

<Fig. E2> Make a connection to the 12 volt cable by use of a female connector (137A, type F) <Fig. D1>. Take a new piece of cable, connect it to the male connector type M (138 A) by inserting the cable in the back of the connector and firmly tighten the connector button <Fig. D2>. Insert the plug of the male connector into the female connector <Fig. D3>.

The number of branches that can be made is unlimited, as long as the maximum cable length between fixture and

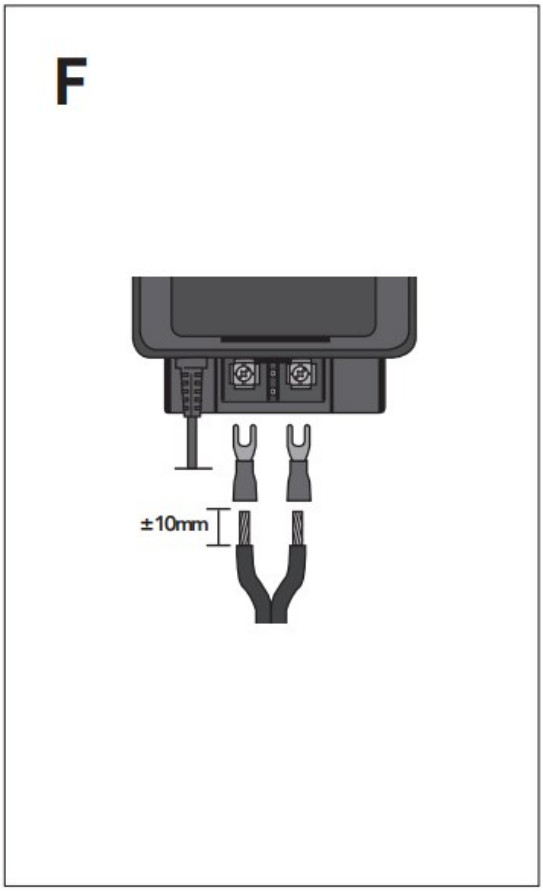
transformer and the maximum load of the transformer are not exceeded.

CONNECTING THE LOW VOLTAGE CABLE TO THE TRANSFORMER

Connecting the cable to the transformer by use of a 12 Volts Lightpro connector

Use the connector 143A (male, type Y) to connect the main cable to the transformer. Insert the end of the cable into the connector and firmly tighten the connector <Fig. D4>. Push the cable lugs under the connections on the transformer. Firmly tighten the screws and make sure that there is no insulation between the connections <Fig. D5>.

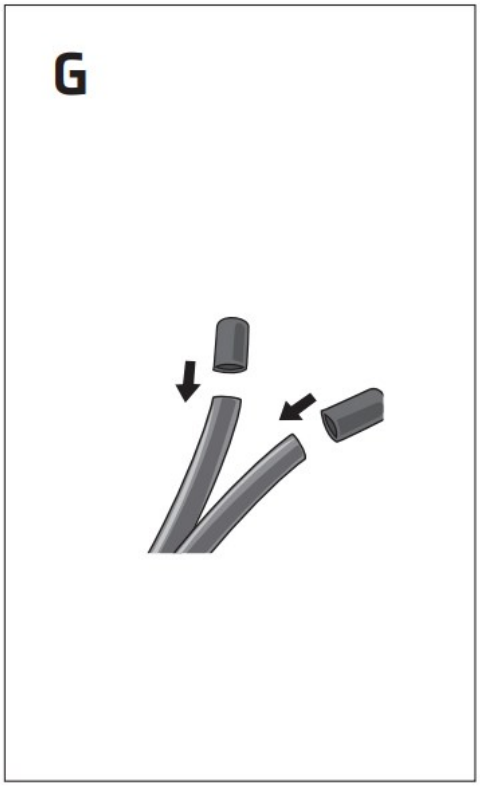
Stripping the cable, applying cable lugs and connecting to transformer



Another possibility to connect the 12 volt cable to the transformer is the use of cable lugs. Strip about 10 mm of insulation off the cable and apply cable lugs to the cable. Push the cable lugs under the connections on the transformer. Firmly tighten the screws and make sure that there is no insulation between the connections <**Fig. F>**.

Connecting a stripped cable without cable lugs to the connecting terminals may cause poor contact. This poor contact may result in heat generation which may damage the cable or the transformer

Caps on the cable end



Fit caps (covers) onto the end of the cable. Split the main cable at the end and fit the caps **<Fig. G>.**

The lighting is not on

In case after activation of the transformer (a part of) the lighting does not work, you should go through the following steps

1. Switch the transformer to “On” position, the lighting must always turn on now.
2. Is (part of) the lighting not on? Possibly the fuse switched off the transformer due to short circuit or too high a load. Reset the fuse to the original position by pressing the “Reset” button <Fig. A1>. Also check all connections thoroughly.
3. If the transformer functions properly in the ON position and (part of) the lighting is not on during use of the light sensor (stand 4H/6H/8H of Auto) then check if the light sensor functions adequately and is attached to the right location (see paragraph “location of the light/ dark sensor”).

SAFETY

- Always fit this product so that it can still be accessed for servicing or maintenance. This product must not be permanently embedded or bricked in.
- Turn off the system by pulling the plug of the transformer from the socket for maintenance.
- Regularly clean the product with a soft, clean cloth. Avoid abrasives that can damage the surface.
- Clean products with stainless steel parts with a stainless steel cleaning agent once per six months.
- Do not use a high pressure washer or aggressive chemical cleaning agents when cleaning the product. This can cause irreparable damage.
- Protection class III: this product may only be connected to safety extra-low voltage up to a maximum of 12 Volt.
- This product is suitable for outside temperatures of: -20 to 50 °C.

- Do not use this product in areas where combustible gases, fumes or liquids may be stored

The product meets the requirements of the applicable EC and EAEU guidelines.

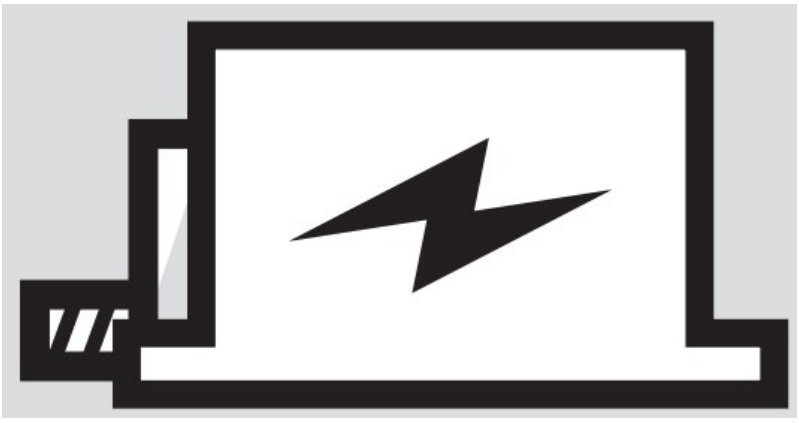
For questions about parts, service, any complaints or other matters, you can contact us at any time. E-mail: info@lightpro.nl

Discarded electrical equipment must not be put in the household waste. If possible, take it to a recycling company. For details of recycling, contact a municipal waste processing company or your dealer.

5 year warranty – visit our website at lightpro.nl for warranty conditions.

Attention

By the effects off the power factor* with LED lighting the transformers maximum capacity is 75% off its power.



Example
21W -> 16W
60W -> 48W
100W -> 75W

The total Wattage of the system can be calculated by adding up al Wattages from the connecting lights.

Would you like to know more about the power factor? Go to our website **www.lightpro.nl/powerfactor** for more information.

Support

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Documents / Resources

	**LIGHTPRO 144A Transformer Timer and Light Sensor** [pdf] User Manual 144A Transformer Timer and Light Sensor, 144A, Transformer Timer and Light Sensor, Timer and Light Sensor, Light Sensor

References

- Lightpro
- Lightpro
- Lightpro