

## Triple E product register Eligibility Criteria

### **Category: Lighting**

### **Technology: Lighting Controls**

Systems used to control lighting with the aim of optimising energy usage. These systems use timers, daylight sensing, occupancy sensing and/or traffic flow sensing to control switching and/or dimming of lighting within different zones.

Lighting controls are considered to include:

#### Time controllers

Automatically switch off lighting, or dim it down, at predetermined times .

#### Daylight controllers and sensors

Monitor daylight availability, and automatically switch off lighting or dim it down to the level needed to sufficiently illuminate the area.

#### Occupancy controllers and sensors

Monitor occupancy or movement of personnel, and automatically switch off, or dim down, lighting when the area is unoccupied.

#### Central control units

Manage the overall operation of artificial lighting installations that include some or all of the categories of lighting controls above.

#### Complete Control Systems

This category is designed to facilitate the submittal of complete control systems consisting of, but not limited to, a central controller, communication network, software interface, field devices and interfaces.

Central Management Systems for use on exterior lighting fall into this category.

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### **Eligibility Criteria**

In order to be included on the Triple E Product Register\*, the specific Lighting Control equipment must meet *all* of the relevant requirements set out below.

**Note:** *Supporting documentation that clearly demonstrates Triple E compliance according to the conditions below will be required as part of the Triple E checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

\* known as the specified list as per the Finance Act

### **General eligibility criteria**

(applicable to all Lighting control equipment)

No.	Condition
1.	All equipment and/or components must be CE-marked as required by the specific EU directive(s).
2.	Where automatic dimming controls are used, they must work by reducing the power consumption of the lamps. <b>And,</b> <ul style="list-style-type: none"> <li>• Where LED lighting or fluorescent lighting is being dimmed, the controls must be capable of reducing the power consumption of the controlled lamps by at least 80%.</li> <li>• Where other forms of lighting are being dimmed, they must incorporate either mains frequency or high frequency control gear with dimmable ballasts.</li> </ul>

### Time controllers – specific eligibility criteria

(to be met in addition to the general eligibility criteria)

No.	Condition
3.	The product must automatically switch the lighting off, or dim it down, at predetermined times, or after a predefined interval.

### Daylight controllers – specific eligibility criteria

(to be met in addition to the general eligibility criteria)

No.	Condition
4.	The product must monitor the availability of daylight and automatically switch the lighting off when sufficient daylight is available to illuminate the area irrespective of switching cycle mode. Controls that incorporate dimming must dim down the lighting to the level needed to sufficiently illuminate the area by a combination of daylight and electric light.

### Occupancy controllers – specific eligibility criteria

(to be met in addition to the general eligibility criteria)

No.	Condition
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5.	The product must automatically switch off the lighting, or dim it down, after the area has become unoccupied.
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## Central control units – specific eligibility criteria

(to be met in addition to the general eligibility criteria)

No.	Condition
6.	The product must be able to manage the overall operation of the artificial lighting installation that includes some or all of the categories of lighting controls meeting criteria 3 to 5 above.

## Complete Control Systems – specific eligibility criteria

(to be met in addition to the general eligibility criteria)

No.	Condition
7.	The system must be computer or microprocessor based, designed to control lighting with the aim of optimising energy use
8.	The system must automatically switch or dim the lighting in response to daylight levels, occupancy or pre-determined time settings
9.	The overall system must include a user interface
10.	Appropriate training must be provided to the end-user, such that the end-user can operate the system in an energy efficient manner
11.	Appropriate operating & maintenance manuals must be available to the end-user in order to optimise the achievement of any potential energy efficiency gains.
12.	The system must comprise a complete set of components which are designed to work together as efficiently as possible. All components for a working system are to be obtainable from the same supplier

### Notes

1. Modules which can be added to a lighting control system/product but do not control or monitor lighting are not eligible for Triple E support as lighting controls.
2. Products may incorporate the facility for local users to manually switch on and off lighting in a local area and thus to override the relevant lighting controls at any particular instance. However products that allow local users to locally override the

ability of lighting controls to automatically switch off or dim down the lighting, are not eligible.

3. For central control units, products that are only capable of manual scene setting are not eligible.
4. Scene setting controls as used in Meeting Room and Conference facilities are not eligible.

----- *End of Triple E eligibility criteria* -----

*Please see next section for guidance on:*

- 1. Technical details required in product submission**
- 2. Supporting documentation required**

# Guidance on product details and supporting documentation

*The following information is not part of the official criteria document published within the relevant statutory Instrument; it has been added here for guidance purposes only in order to provide assistance with the submission of product details and the provision of the required supporting documentation.*

**Note:** All information contained within this guidance document is subject to change without notice

## Technical information required in product submission

The following are the specific technical values required as part of the product submission for this technology:

### Lighting Control type

As part of the product submission you must first select which type of control your product is.

### Dimming functionality

If your product has a dimming functionality which meets the criteria this function must be chosen within the product submission form.

### Switching functionality

If your product has a switching functionality which meets the criteria this function must be chosen within the product submission form.

## Supporting documentation required

Described below is the list of documents that are accepted as proof of compliance for the specific Lighting Control condition.

**Note:** This information will only be requested AFTER you submit your product's basic details online

### Important Notes to Product Providers

Please ensure that you read the "Important Notes to Product Providers" section at the end of this document prior to submitting documentation.

**General Eligibility Criteria:**

No.	Condition	Supporting Documentation Requirement
1.	<p>All equipment and/or components must be CE-marked as required by the specific EU directive(s).</p>	<p>Official and published manufacturer’s technical data sheet or brochure that demonstrates CE marking compliance.</p> <p><b>OR</b></p> <p>A copy of an official signed declaration on headed paper which confirms CE marking compliance.</p> <p>Official declarations should explicitly state the product for which CE marking is being confirmed (i.e. do not provide a letter simply stating general compliance with the relevant Triple E Condition).</p> <p>Where a document is used to demonstrate conformance for a number of products or range of products it should clearly specify each individual product covered by that document.</p>
2.	<p>Where automatic dimming controls are used, they must work by reducing the power consumption of the lamps.</p> <p><b>And,</b></p> <ul style="list-style-type: none"> <li>• Where LED lighting or fluorescent lighting is being dimmed, the controls must be capable of reducing the power consumption of the controlled lamps by at least 80%.</li> <li>• Where other forms of lighting are being dimmed, they must incorporate either mains frequency or high frequency control gear with dimmable ballasts.</li> </ul>	<p>Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.</p>

### Time controllers – specific eligibility criteria

3.	The product must automatically switch the lighting off, or dim it down, at predetermined times, or after a predefined interval.	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
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### Daylight controllers – specific eligibility criteria

4.	The product must monitor the availability of daylight and automatically switch the lighting off when sufficient daylight is available to illuminate the area irrespective of switching cycle mode. Controls that incorporate dimming must dim down the lighting to the level needed to sufficiently illuminate the area by a combination of daylight and electric light.	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
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### Occupancy controllers – specific eligibility criteria

5.	The product must automatically switch off the lighting, or dim it down, after the area has become unoccupied.	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
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### Central Control Units – specific eligibility criteria

6.	The product must be able to manage the overall operation of the artificial lighting installation that includes some or all of the categories of lighting controls meeting criteria 3 to 5 above	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
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### Complete Control Systems – specific eligibility criteria

7.	The system must be computer or microprocessor based, designed to control lighting with the aim of optimising energy use	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
8.	The system must automatically switch or dim the lighting in response to daylight levels, occupancy or pre-determined time settings	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
9.	The overall system must include a user interface	Official and published manufacturer’s technical data sheet or brochure that demonstrates compliance with the requirements of the condition.
10.	Appropriate training must be provided to the end-user, such that the end-user can operate the system in an energy efficient manner	<p>A copy of a signed official statement on headed paper confirming that the appropriate end-user training is provided,.</p> <p>The signed declaration must explicitly state that training is available to the end-user, rather than simply stating that the system is compliant with the relevant Condition.</p> <p><b>NB:</b> Submitting copies of training manuals is not sufficient and is not required by this condition. A signed declaration is required for compliance with this condition in all cases.</p>
11.	Appropriate operating & maintenance manuals must be available to the end-user in order to optimise the achievement of any potential energy efficiency gains.	<p>A copy of a signed official statement on headed paper confirming that the appropriate Operating &amp; Maintenance manuals are provided. Where applicable, information on the availability of technical documentation to download online should be provided.</p> <p>The signed declaration must explicitly state that manuals are provided, rather than simply stating that the system is compliant with the relevant Condition.</p> <p><b>NB:</b> Submitting copies of user manuals is not sufficient and is not required by this condition. A signed declaration is required for compliance with this condition in all cases.</p>

<b>12</b>	The system must comprise a complete set of components which are designed to work together as efficiently as possible. All components for a working system are to be obtainable from the same supplier	Complete list of all components comprising the system.  This may be either: A list in an official and published brochure or datasheet OR A list in tabulated or spreadsheet format.  The list is to include a short description and part number for each component
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## Important Notes to Product Providers

### General

There should be a clear link between all supporting documentation supplied and the product being submitted. This will typically take the form of a product code or product name that can be cross referenced between the submitted product and relevant supporting documentation. If product codes / names have been changed since publication of the supporting documentation, then official evidence of this must be provided with the supporting documentation supplied.

Any deviation from these requirements will result in the supporting documentation not being considered adequate for the purposes of demonstrating compliance with the criteria conditions. This will in turn delay the submission and/or result in the product not being considered eligible.

Where the Triple E criteria or help documentation reference compliance to appropriate rather than specific standards, the onus is on the product provider to ensure that supporting documentation supplied references recognised standards that apply to the submitted product, i.e. the product must be covered under the scope of a recognised standard.

If any product submitted is later found not to meet the performance or specification criteria, then this product will cease to be considered eligible for the Triple E.

**Note:** When supplying the supporting documentation through the online process you must ensure that the correct page number(s) of the document is referenced when compliance with the relevant condition is being demonstrated. An explanatory note should also be given where more than one page number is referenced.