

## SYMBOLS EXPLAINED

### Electrical Safety



#### Class I

Products with this symbol must have metal parts connected to electrical earth by an earth conductor. The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock.



#### Class II

A Class II or double insulated product does not require a safety earth connection. The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on earthed metal parts.

This is usually achieved by having two separate layers of insulating material surrounding live parts or by using reinforced insulation.



#### Class III

A Class III product is designed to be supplied from a separated/safety extra-low voltage (SELV) power source, where the voltage is low enough that a person can safely come into contact with it without risk of an electric shock. Therefore the safety features built into Class I & Class II appliances are not required.



#### Safety Isolating

Products with this symbol are designed so the output is electrically isolated from the input.

This is achieved through; a) double or reinforced insulation material between input parts and output parts, b) separation of input parts and output parts by a barrier or gap, or c) by other means.



#### Stand Alone

A product with this symbol has been designed so that it can safely be used 'as it is' without the need for any additional safety features (cases, covers, etc.)

### Other Symbols



#### F-Mark

Products with this symbol do not reach excessively high temperature at the area in contact with the mounting surface therefore they can be installed on surfaces of 'normally flammable' material.



Products with this symbol reach high temperature at the area in contact with the mounting surface therefore they cannot be installed on surfaces of 'normally flammable' material.



This symbol should be accompanied by a number, this is the minimum safe distance (normally in metres) from the light source to normally flammable objects.



Do not cover

### Ingress Protection (IP--)

#### 1st Digit - Protection Against Ingress of Solid Objects

- 0 No protection.
- 1 Protection against objects >50mm diameter.
- 2 Protection against objects >12.5mm diameter.
- 3 Protection against objects >2.5mm diameter.
- 4 Protection against objects >1mm diameter.
- 5 Protection against large dust deposits \*
- 6 Sealed - Totally dust tight

\* Limited ingress permitted

#### 2nd Digit - Protection Against Ingress of Liquids

- 0 No protection.
- 1 Protection against water falling vertically.
- 2 Protection against water spraying 15° from vertical.
- 3 Protection against water spraying 60° from vertical..
- 4 Protection against water spraying from any angle \*
- 5 Protection against low pressure water jets \*
- 6 Protection against strong water jets \*
- 7 Protection against temporary immersion up to 1m deep.
- 8 Protection against unlimited submersion
- 9 Protection against high pressure hosing up to 100bar

\* Limited ingress permitted



IP-4 (Bathroom Zone 2)



IP-5 (Bathroom Zone 1)



Not Dimmable



Dimmable (type of dimmer to be specified)



Inside Installation Only



Ceiling Mount Only



Wall Mount Only