

we-ef



WE-EF LIGHTING
Installation and Maintenance
Instructions

Bollard

CFY259 LED
ZFY230 LED
KTY234 LED
KTX234 LED



Do not open during installation

This product is factory-sealed.
Refer to the instructions contained in this document for details.



Installation tools

Mounting hardware used on this product includes fasteners with hexalobular socket heads (ISO 10664). Installation requires the use of matching tools.



Surge Protection

For comprehensive protection of a luminaire installation against lightning and electrical surges, it is essential to cover mains supply and data input lines at the distribution board level, by using respective primary (Type 1) and secondary (Type 2) surge arrestors in compliance with EN61643-11/IEC61643-1.

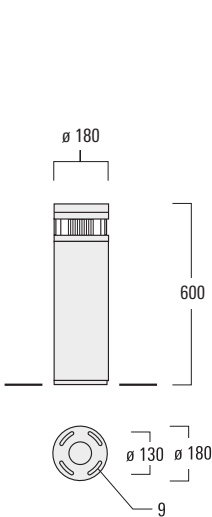
Warning

Ensure that all required surge protection measures are in place and activated prior to luminaire installation. Also, disconnect luminaires before operating high-power devices such as, for example, electrical arc welders.

Bollard

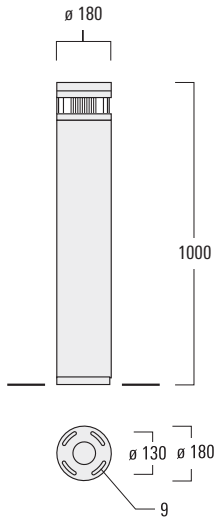
ZFY230

H = 600 mm



ZFY230

H = 1000 mm

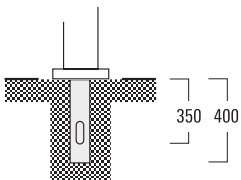


IP66, Class I (Class II, III available on request), $t_a = 25^\circ\text{C}$

Weight	H	kg
for ZFY230	600	7.8
for ZFY230	1000	8.9

Accessories:

Planted root – Galvanised steel.		kg
ESV4	for ZFY230	300-0461 3.2

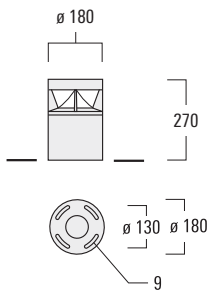


ESV4

Bollard

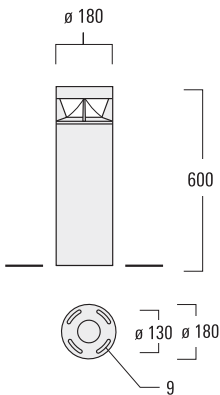
KTX234

H = 270 mm



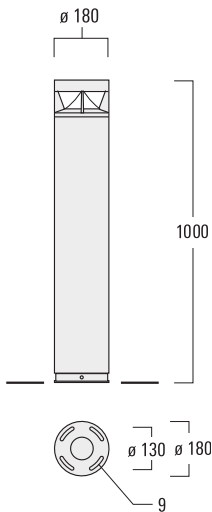
KTY234

H = 600 mm



KTY234

H = 1000 mm

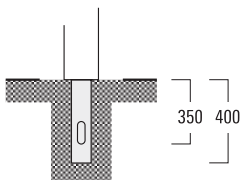


IP66, Class I (Class II, III available on request), $t_a = 25^\circ\text{C}$

Weight	H	kg
for KTX234	270	4.5
for KTY234	600	6.8
for KTY234	1000	8.9

Accessories:

Planted root – Galvanised steel.	kg
ESV4 for KTY234	300-0461 3.2



ESV4

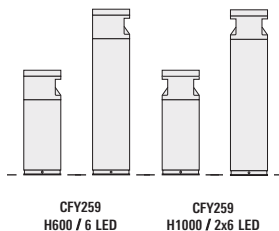
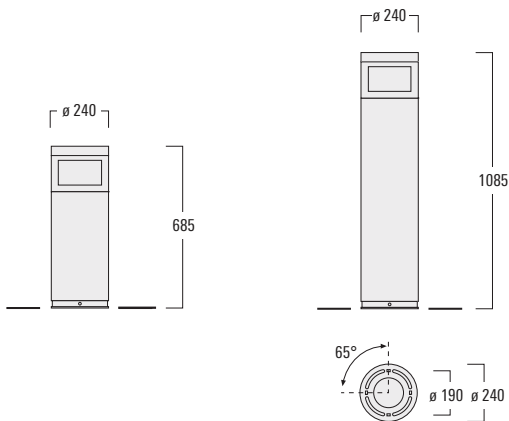
Bollard

CFY259

H = 685 mm

CFY259

H = 1085 mm



IP66, Class I, (Class II, III available on request) $t_a = 25^\circ\text{C}$

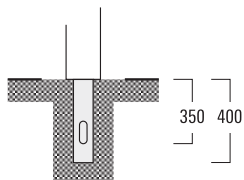
Weight	H	kg
for CFY259	600	15
for CFY259	1000	18

WARNING : HEAVY ITEMS

Ensure correct handling techniques are used

Accessories:

Planted root – Galvanised steel.		kg
ESV4	for CFY259	300-0464 4.4



ESV4

Light Source

LED

Maintenance

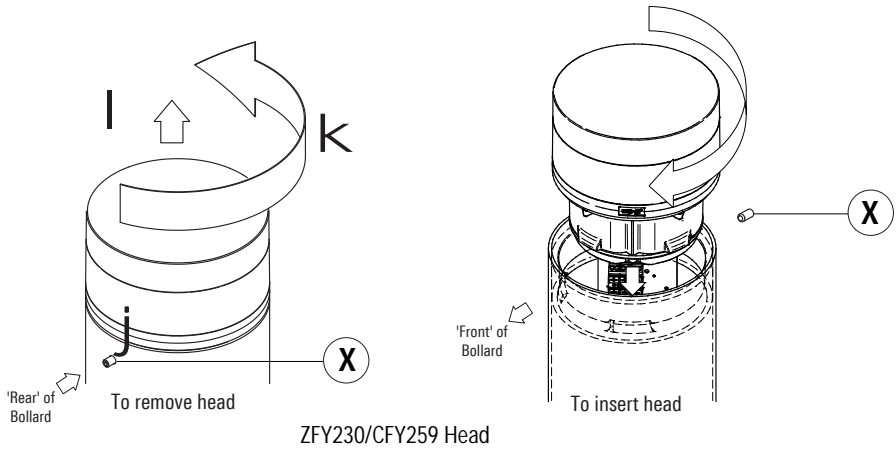
Apart from cleaning the product's exterior surfaces, no special maintenance work is required.

Do not use high-pressure cleaners.

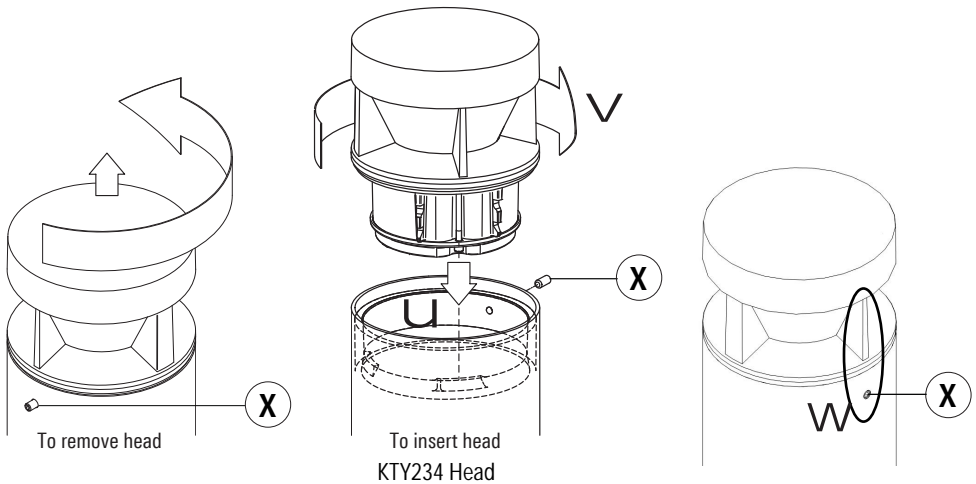
To remove the head of the luminaire during maintenance, loosen screw **X** with a Torx T-20 tool and rotate anti-clockwise until it can be lifted up.

Head Removal

j Release the grub screw **X** and **k** twist the head counter-clockwise, then **l** lift the head off the bollard body. To re-attach the head, align it to the bollard post as shown below, **u** drop the head into the body and **v** rotate clockwise. When seated, **w** secure the head by tightening screw **X**.



For ZFY230/CFY250, The bollard post should be mounted that the grub screw **X** is the back of the bollard with the WE-EF logo at the front of the bollard.



For KTY234, ensure that the slim shield on the LED head lines up to the grub screw **X**. Confirm head is secure by ensuring head cannot be rotated once grub screw secure.

In case of component failure due to abnormal circumstances or at end of life, replacement must be carried out by a suitably qualified and trained professional.

Warning: Do not open the luminaire or remove the bollard head while mains supply is switched on.

The luminaire head unit **B** is factory sealed, warranty will be void if opened without authorisation from WE-EF Lighting or nominated agent.

Installation

The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

Warning: Switch off and isolate the mains electrical supply prior to installing and connecting the luminaire.

Notice: If the luminaire is modified by anybody other than the original manufacturer, then the warranty will no longer be valid and shall become the full responsibility of the modifying person/organisation. Claims based on defects attributable to improper installation and/or application, and the consequences thereof, are excluded.

If the supplied cable of the KTX luminaire is damaged, it must be replaced by WE-EF or a WE-EF authorized agent.

Installation Procedure

The luminaire is suitable for installation directly on to an even surface, however it is recommended to incorporate the optional planted root to ensure maximum stability.

- 1) Switch off and isolate the mains electrical supply.
- 2) Check that rating shown on luminaire label conforms with mains electrical supply.
- 3) A suitable recess to be provided for planted root **A**. Ensure that a solid foundation as well as sufficient mains cable length are provided.
- 4) Remove head of luminaire **B** from bollard post **C** after loosening screw **X** with a Torx T-20 tool and rotating it anti-clockwise until it can be lifted up (see previous page).
- 5) Set cast base **F** in position and secure by inserting and tightening bolts **G** and the post **C** is attached to the base with retention bolts **D** (base is integrated on KTX). Note that the rear of the bollard is where the head retention screw **X** is positioned.
- 6) As per Fig. 2 Connect luminaire cable **I** to mains supply terminal block located on the gear tray **G** on the underside of the head **B**, and is secured by the clamp **H**. **Note** : The KTX does not have the gear tray and must be connected via a compliant IP67 junction box **J** (not supplied) as per Fig. 3.
- 7) Wiring is as follows and should match the labels on the terminal block:
 - a) ON/OFF (L = Phase, N = Neutral, \ominus = Earthing)
 - b) 1-10V/DALI (L = Phase, N = Neutral, \oplus = Earthing, DA/DA = DALI control line, D-/D+ = 1-10V control line).
 - c) DC (+ = Positive, - = Negative)
- 8) Return head of luminaire **B** to bollard post **C** and secure by tightening screws **D** (not KTX) and the head retention screw **X**.

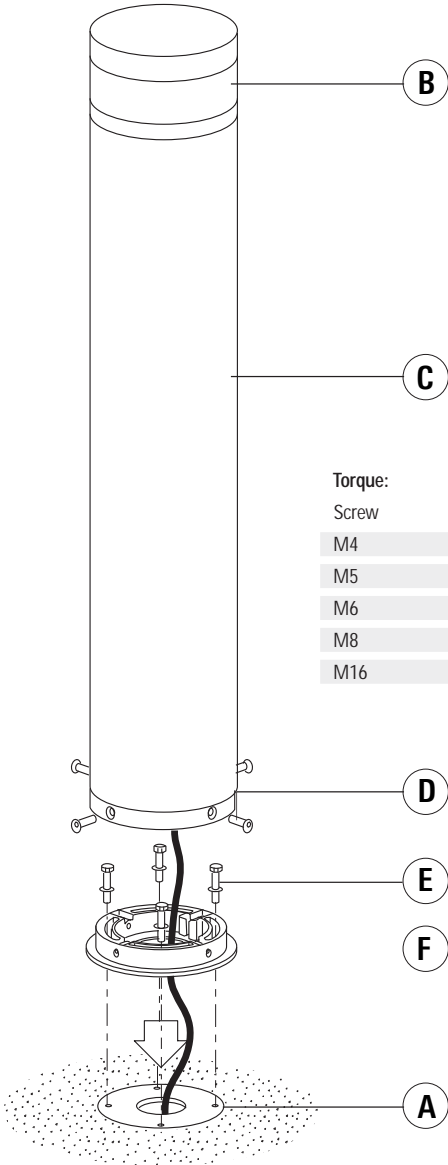


Fig. 1

Torque:

Screw	Torque
M4	max. 2.0 Nm
M5	max. 4.0 Nm
M6	max. 6.0 Nm
M8	max. 15.0 Nm
M16	max.100.0 Nm

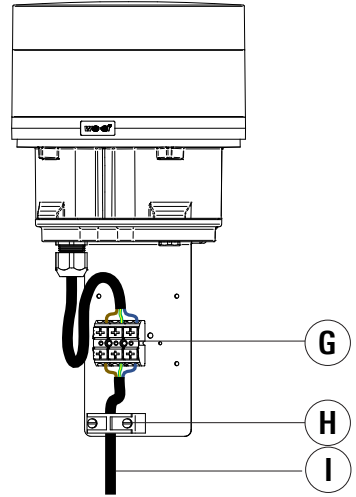


Fig. 2

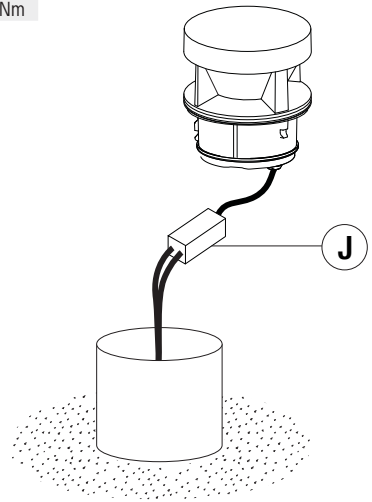


Fig. 3

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Technical specifications are
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WE-EF LIGHTING

Installation and
Maintenance Instructions
for Planted Root

ESV4



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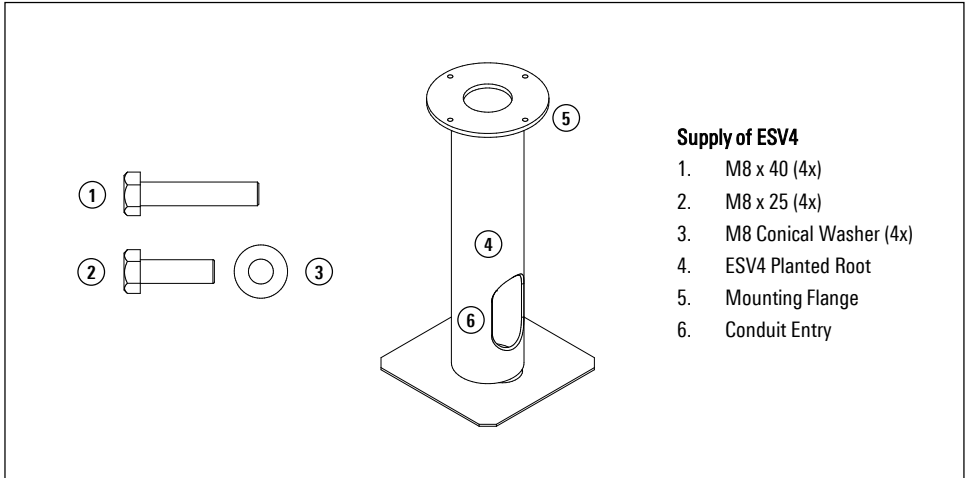
**INSTALLER
HOTLINE**



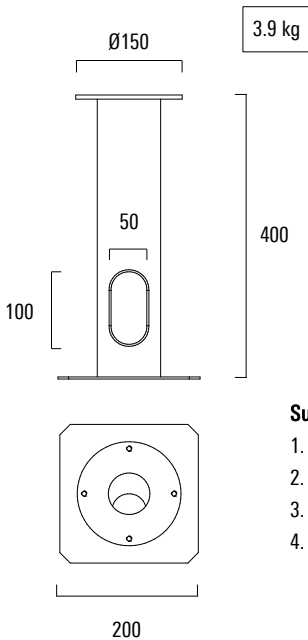
+61 458 933 399
7am – 7pm AEST

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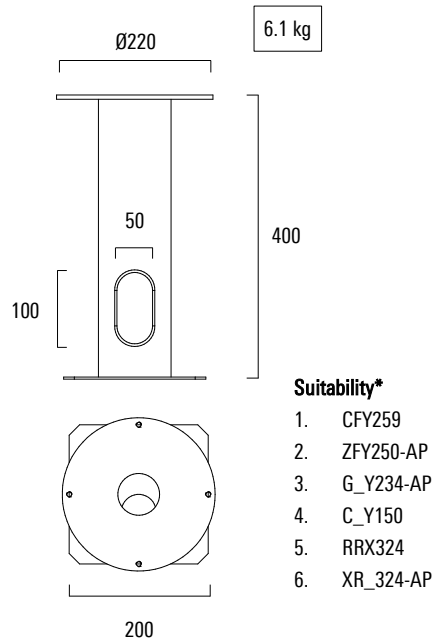
Planted Root



ESV4 300-0461



ESV4 300-0464



* If in doubt, please contact your WE-EF authorised agent for the suitability of ESV plant root type with nominated luminaire

Installation Instructions

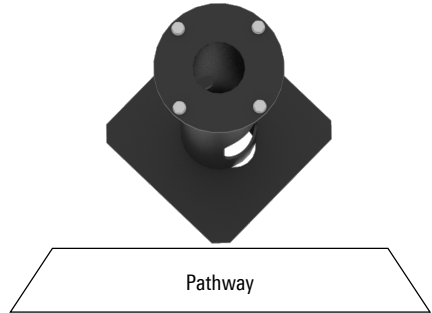
1. NOTE: It is the responsibility to the installer to ensure the suitability of the ESV planted root for any local or national structural requirements for the installation, and that the planted root is suitable for the site specific conditions.

The instructions are a guideline for installation to these requirements and provide the detail for installation orientation and mounting details.

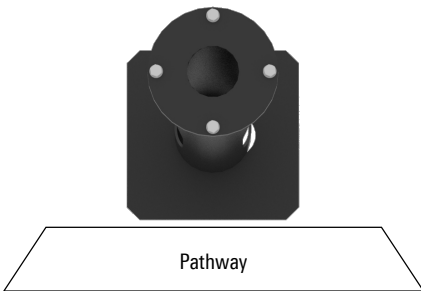


2. Please note, the ESV must be orientated correctly for different products. In both instances the conduit entry can be rotated to match cable routing.

When the ESV is being installed for the following products: **KTY234 / KTX234 / ZFY230 / CFY259**, please orientate the bolt pattern as shown (base plate is 45° to the pathway). For this installation, use the 40mm long M8 bolts supplied



3. For all other product please orientate the bolt pattern as shown (base plate is parallel to the pathway). For this installation, use the 25mm long M8 bolts supplied.

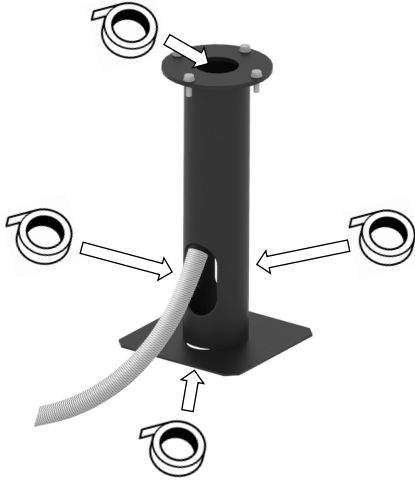


4. Orientate ESV as required and fit the electrical connections/conduit.

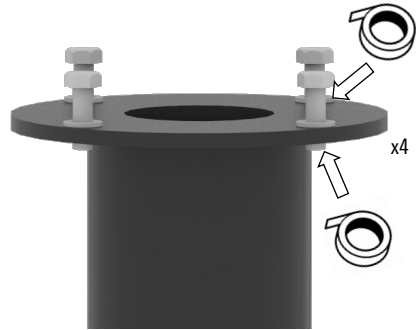


Installation Instructions

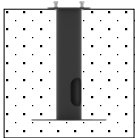
5. Place the ESV in the form work for the concrete pad, ensuring orientation, position and levels are correct. Ensure all openings on the ESV are blanked off, including the mounting plate hole.



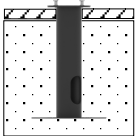
6. Fit the nominated bolts through the mounting plate. Ensure several threads feed through the plate and tape off top and bottom. The bolts are inserted to protect the threads off the plate and need to be removed for fitting installation after setting the ESV.



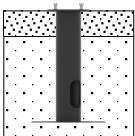
6. Pour concrete to desired level depending on requirement of soil, paver or concrete. Ensure that for any installation the mounting plate must be flush or higher than the surrounding surface level.



Concrete



Paver



Soil

4. After the concrete has cured for the specified time, remove the blanking and the bolts. Install the fitting (as per luminaire instructions) onto the mounting flange.



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