

## WE-EF LEUCHTEN

Installation and Maintenance  
Instructions

Bollard

**KTX234 LED**

**KTY234 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**

This product features built-in surge protection circuitry in compliance with applicable standards.

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.

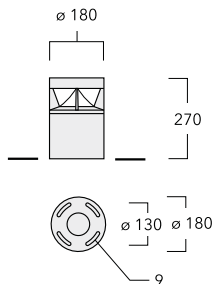
### **Warning**

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

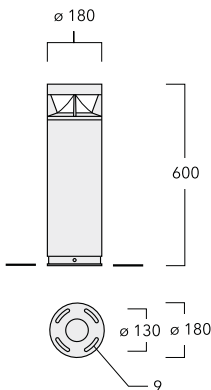
### KTX234

H = 270 mm



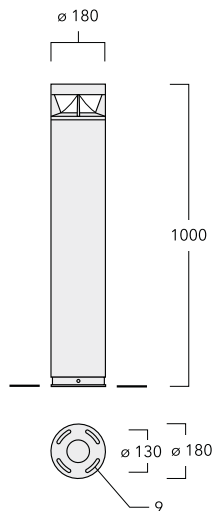
### KTY234

H = 600 mm



### KTY234

H = 1000 mm



IP66, IK10, Class I, ta = 40°C

### Weight

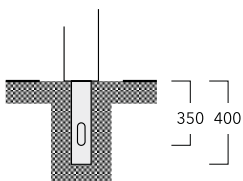
	H	kg
for KTX234	270	4.5
for KTY234	600	6.8
for KTY234	1000	8.9

### Accessories:

**Planted root** - Galvanised steel.

kg

ESV4	for KTX234/KTY234	<b>300-0461</b>	4.4
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**ESV4**

## Light Source

LED

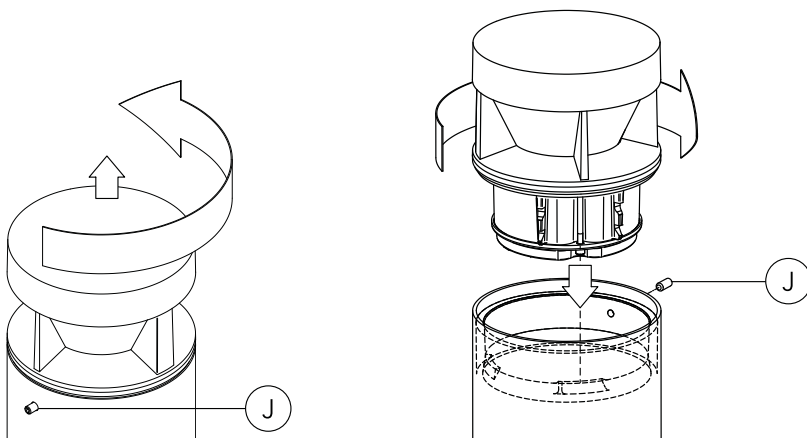
## Maintenance

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 **J** with Torx T-20 tool and rotate it anti-clockwise until it can be lifted up.

If the head of the luminaire is returned after maintenance, align it to the bollard post as shown below and secure by tightening screw **J**.



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 luminaire while mains supply is switched on.

**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 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.

**Attention:** The luminaire is factory-sealed and does not need to be opened during installation.

The installation on site must comply with local and/or national health and safety regulations.

## Installation Procedure

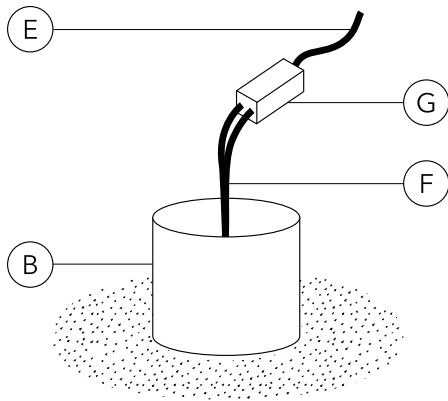
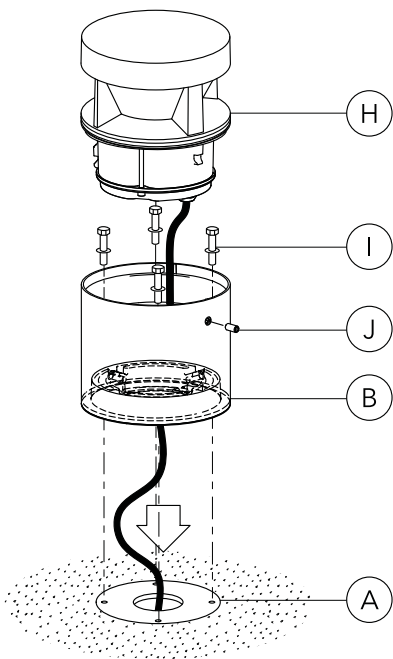
The luminaire is suitable for installation directly on to an even surface, however it is recommended to incorporate the optional planted root to ensure maximum stability.

### Installation - KTX

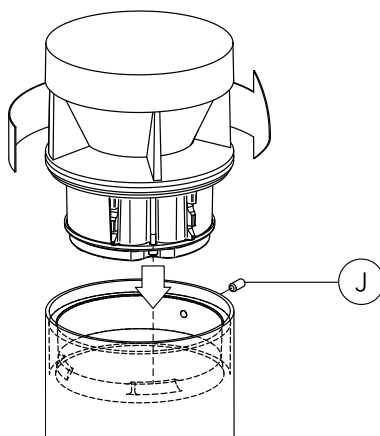
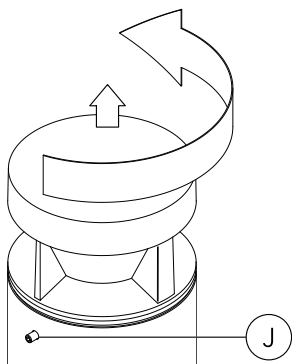
- 1) Switch off mains electrical supply.
- 2) Check that rating shown on luminaire label conforms with mains electrical supply.
- 3) A suitable recess to be provided for planted root **A**. Ensure that a solid foundation as well as sufficient mains cable length are provided.

**Note:** Planted root installation instruction is available at the end of this document.

- 4) Remove head of luminaire **H** from bollard post **B** after loosening screw **J** with Torx T-20 tool and rotating it anti-clockwise until it can be lifted up.
- 5) Set bollard post **B** in position and secure by inserting and tightening bolts **I**. The direction of light for KTX [R65] is opposite the set screw **J**.
- 6) Connect luminaire cable **E** to mains supply cable **F** in watertight terminal connector **G** (not supplied by WE-EF):
  - a) ON/OFF and Motion Stand-Alone (L = Phase, N = Neutral, ⊕ = Earthing)
  - b) 1-10V/DALI (L = Phase, N = Neutral, ⊕ = Earthing, DA/DA = DALI control line, D-/D+ = 1-10V control line).
  - c) For Motion Primary and Secondary refer to separate wiring diagram.
- 7) Place watertight terminal connector **G** and excess cable inside bollard post **B**.
- 8) Return head of luminaire **H** to bollard post **B** and secure by tightening screw **J**.



**KTX234**

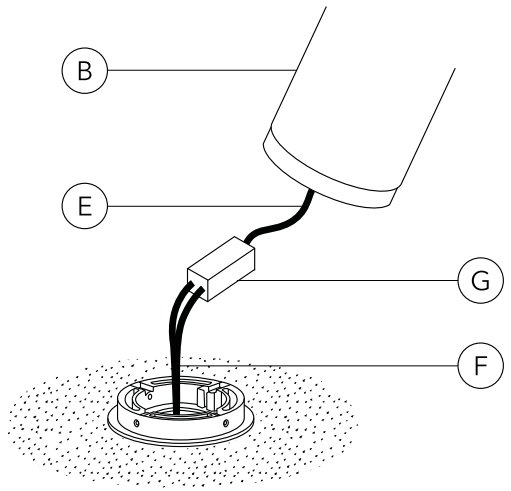
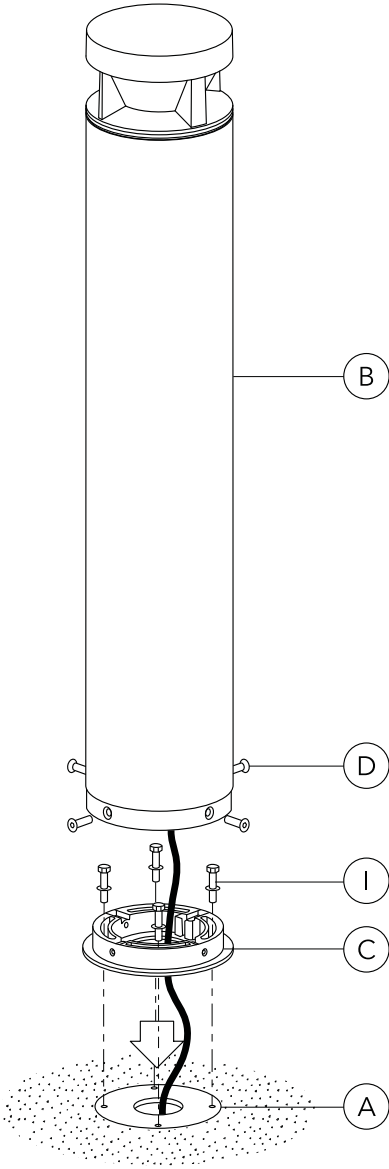


## Installation - KTY

- 1) Switch off 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.

**Note:** Planted root installation instruction is available at the end of this document.

- 4) Remove bollard post **B** from cast base **C** by loosening countersunk screws **D** with Torx T-40 tool.
- 5) Set cast base **C** in position and secure by inserting and tightening bolts **I**.
- 6) Connect luminaire cable **E** to mains supply cable **F** in watertight terminal connector **G** (not supplied by WE-EF):
  - a) ON/OFF and Motion Stand-Alone (L = Phase, N = Neutral, ⊕ = Earthing)
  - b) 1-10V/DALI (L = Phase, N = Neutral, ⊕ = Earthing, DA/DA = DALI control line, D-/D+ = 1-10V control line).
  - c) For Motion Primary and Secondary refer to separate wiring diagram.
- 7) Place watertight terminal connector **G** and excess cable inside bollard post **B**.
- 8) Reposition bollard post **B** and secure by tightening screws **D**. The direction of light for KTY [R65] is opposite the set screw.

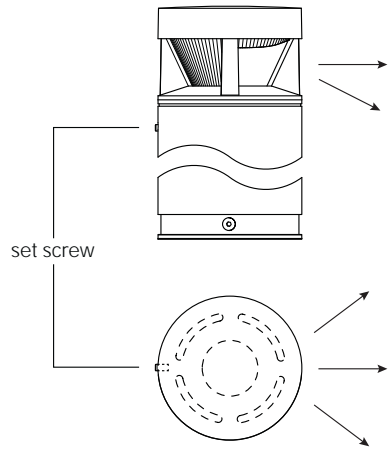


KTY234



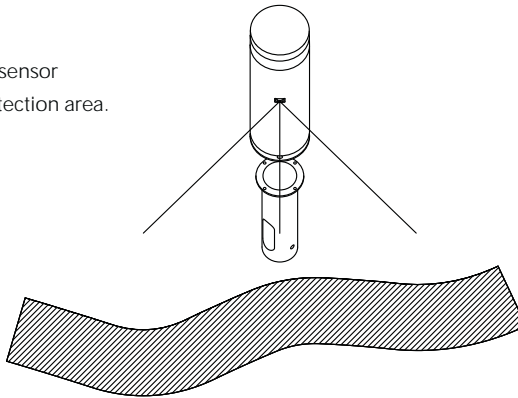
**Torque:**

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

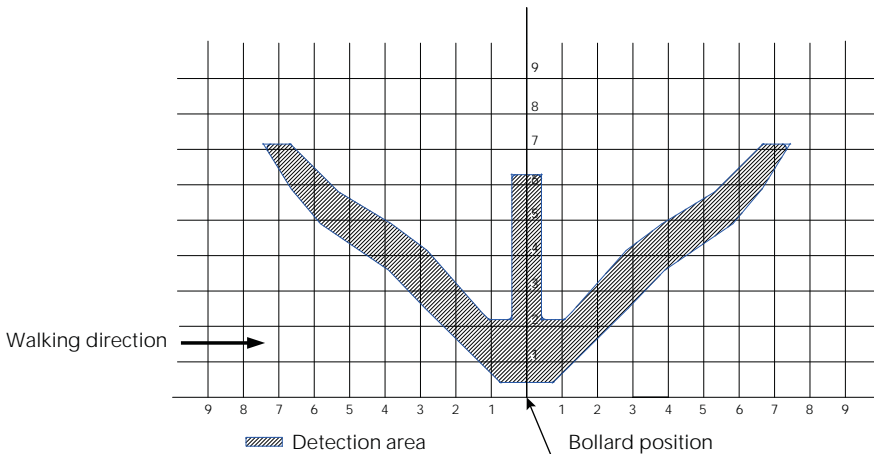


Direction of Light for [R65] One-sided

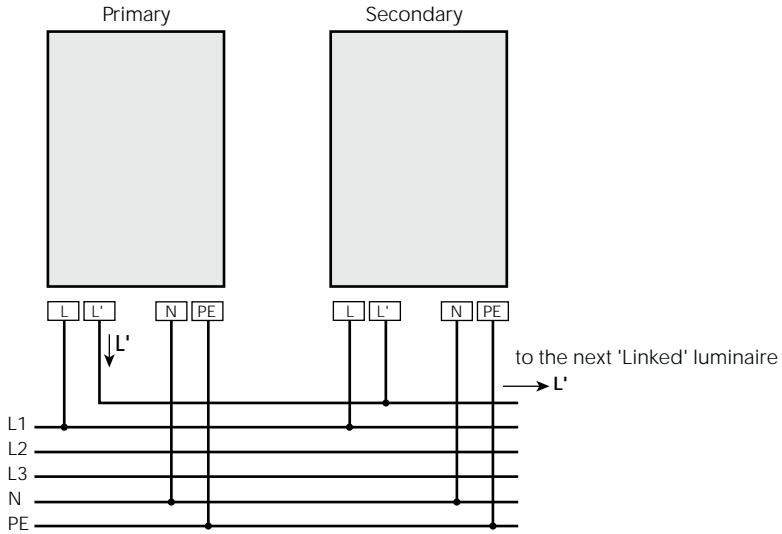
Align the motion sensor to the desired detection area.



TRANSVERSE AREA DETECTION



## Principle wiring diagram – Wiring Scheme Eco Step Dim Motion



**Attention:** L' is a switching phase. No external voltage must be applied here.  
All luminaires connected to L' must be connected to the same phase (e.g. L1).  
Failure to do so can result in damage to the luminaire and the motion detector.



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Technical specifications are  
subject to change.

**WE-EF LEUCHTEN**

Installation and Maintenance  
Instructions

Planted Root

**ESV4**

**ESV6**

**ESZ4**

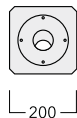
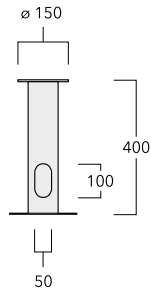


**Planted Root**

**ESV4 300-0461**

**Suitability**

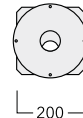
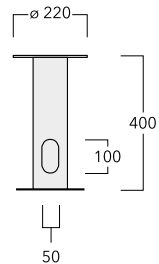
1. KTX234
2. KTY234
3. ZFY230
4. GRY224
5. Short post



**ESV4 300-0464**

**Suitability**

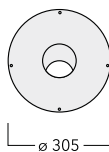
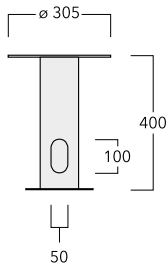
1. CFY259
2. GRY234
3. RRY324
4. RRZ324
5. XRY324
6. XRZ324



**ESV4 300-0586**

**Suitability**

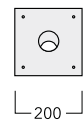
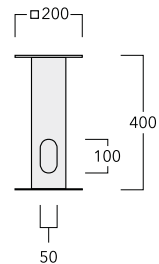
1. XRY334
2. XRZ334
3. RRY334
4. RRZ334



**ESV4 300-0459**

**Suitability**

1. QSI254

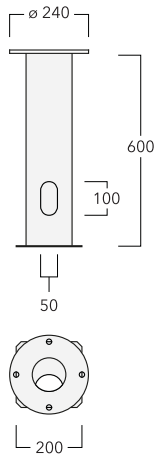


**Planted Root**

**ESV6 300-0824**

**Suitability**

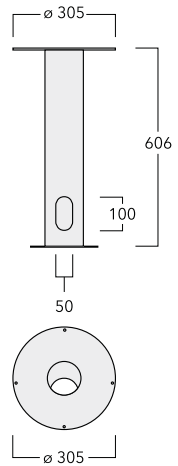
- 1. AML-C
- 2. FLA461



**ESV6 300-0457**

**Suitability**

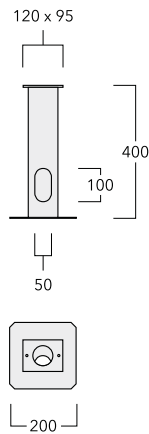
- 1. LTM440
- 2. LTM444
- 3. AMW-C
- 4. AMF-C
- 5. AMF-S
- 6. AML-C



**ESZ4 300-9115**

**Suitability**

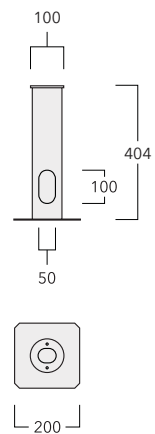
- 1. PSY414/424



**ESZ4 300-9090**

**Suitability**

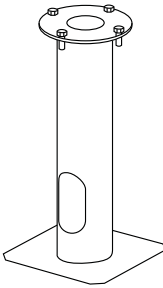
- 1. MRY224



## Installation Instruction

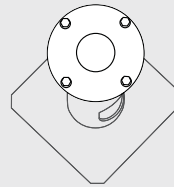
- 1) Note: It is the responsibility to installer to ensure the suitability of the ESV/ESZ planted root for any local or national structural requirements for installation, and that planted root is suitable for site specific conditions.

Instructions are a guideline for installation to these requirements and provide detail for installation orientation and mounting details.

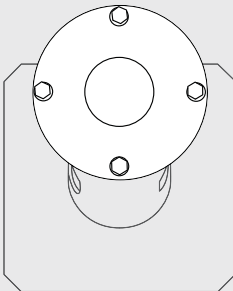


- 2) Please note, ESV4 and ESV6 must be orientated correctly for different products. In both instances conduit entry can be rotated to match cable routing.

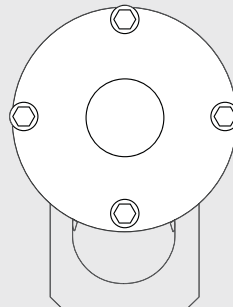
When the ESV is being installed for following products: KTY234/KTX234/ZFY230/CFY259/FLA461, please orientate the planted root as shown (base plate is at an angle of 45° to the pathway). For this installation, use the 40 mm long M8 bolts supplied.



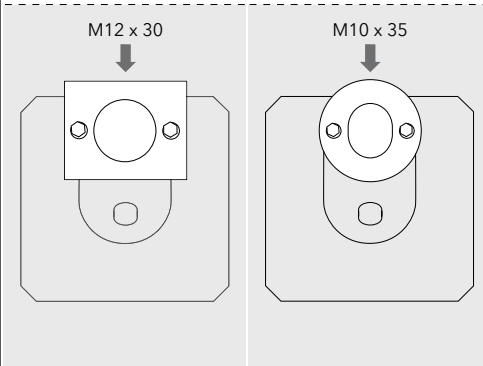
- 3) For all other product that use ESV4 please orientate planted root as shown (base plate is parallel to the pathway). For this installation, use 25 mm long M8 bolts supplied.



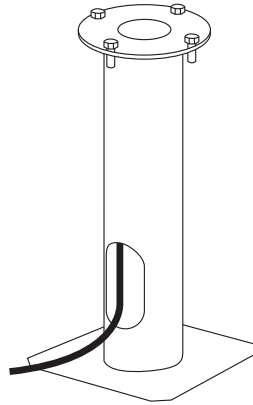
- 4) For all other product that use ESV6 please orientate planted root as shown (base plate is parallel to the pathway). For this installation, use 40 mm long M16 bolts supplied.



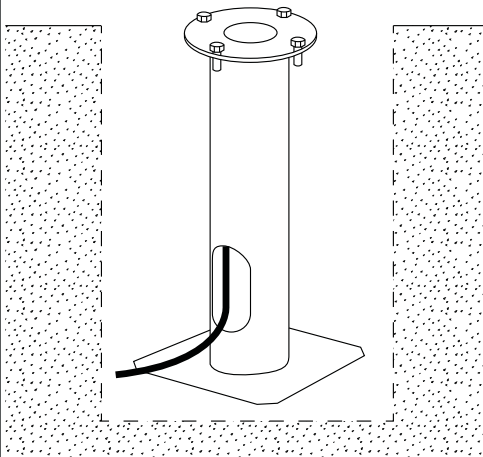
- 5) For ESZ4 please orientate planted root as shown (base plate is parallel to the pathway). For this installation, use 30 mm long M12 bolts for PSY planted root and 35 mm long M10 bolts for MR Y planted root.



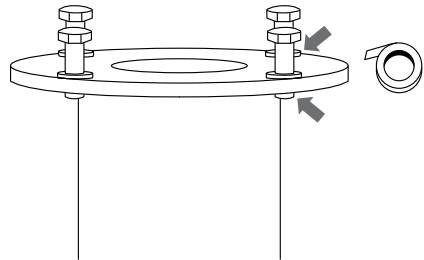
- 6) Orientate ESV/ESZ as required and fit electrical connections/conduit.



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

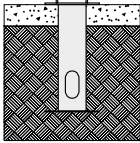


- 8) Fit the nominated bolts through mounting flange. Ensure several threads feed through the plate and tape off top and bottom. Bolts are inserted to protect threads off plate and need to be removed for fitting installation after setting the ESV/ESZ.

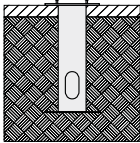




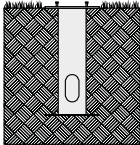
9) Pour concrete to desired level depending on requirement of concrete, paver or soil. Ensure that for any installation mounting flange must be flush or higher than surrounding surface level.



Concrete

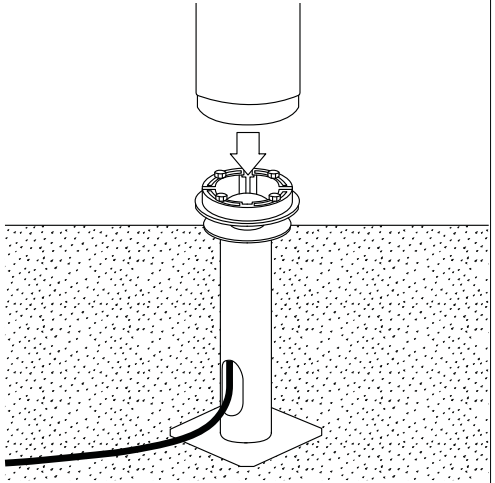


Paver



Soil

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





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Technical specifications are  
subject to change.