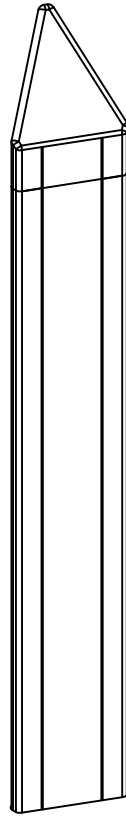


# TRIA S BOLLARD INSTALLATION INSTRUCTIONS



48 VDC

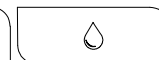


IP55

6063-T66

Ta | 50°C

IK10



ALL DIMENSIONS ARE GIVEN ACCORDING TO THE SI SYSTEM OF UNITS (MM, KG, °C), ADDITIONAL DIMENSIONS THAT ARE WRITTEN IN BRACKETS, ARE GIVEN ACCORDING TO THE U.S. MEASUREMENT SYSTEM (IN, LBS, °F)

## GENERAL REMARKS ON SAFETY

- READ ALL OF THESE INSTRUCTIONS BEFORE INSTALLATION.
- KEEP ALL OF THE INSTRUCTIONS FOR FUTURE REFERENCE.
- INSTALLATION IS TO BE PERFORMED BY A QUALIFIED CONTRACTOR.
- ALL INSTALLATIONS ARE TO CONFORM TO THE STANDARDS OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL LOCAL JURISDICTIONAL CODES AND REGULATIONS.
- THE MANUFACTURER ACCEPTS NO RESPONSIBILITY FOR DAMAGE TO PERSONS OR PROPERTY ARISING THROUGH IMPROPER USE OR INSTALLATION.
- FOR WARRANTY CONDITIONS PLEASE CONSULT LOCAL SALES REPRESENTATIVE.

# WIRING

## WIRE MARKINGS

### OPTION WITH ON/OFF:

|          |        |      |
|----------|--------|------|
| +48 VDC  | BLACK  | WIRE |
| -48 VDC  | WHITE  | WIRE |
| NOT USED | RED    | WIRE |
| NOT USED | GREEN  | WIRE |
| NOT USED | ORANGE | WIRE |

### OPTION WITH DALI:

|          |        |      |
|----------|--------|------|
| +48 VDC  | BLACK  | WIRE |
| -48 VDC  | WHITE  | WIRE |
| DALI +   | RED    | WIRE |
| DALI -   | GREEN  | WIRE |
| NOT USED | ORANGE | WIRE |

THE POLE CABLE CAN BE DELIVERED WITH CONNECTOR OR BARE WIRES, DEPENDING ON CUSTOMER REQUIREMENTS.

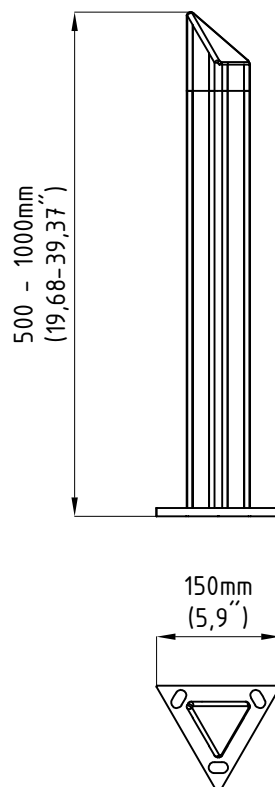
### NOTE:

CONTROL GEAR USED TO POWER THIS LUMINAIRE SHALL BE SELV TYPE; HIGHEST ALLOWED  $U_{out}$  TO BE MAX 10% OF THE NOMINAL VOLTAGE OF CONTROL GEAR. INSTALLATION OF LONGER WIRING LENGTHS SHOULD BE DISCUSSED WITH MANUFACTURER PRIOR THE FIXTURE ORDERING.

WHERE LUMINAIRE IS DELIVERED WITH CONNECTING LEADS AND WITHOUT A MEANS OF CONNECTION TO THE POWER SUPPLY TERMINAL BLOCKS MAY BE USED (TERMINAL BLOCKS NOT SUPPLIED BY MANUFACTURER). TERMINAL BLOCKS SHALL BE IN THE SAME IP RATING AS THE LUMINAIRE ITSELF, WITH RATED VOLTAGE OF MIN. 400 V AND RATED CONNECTION CAPACITY OF 10A. CONNECTION WIRE ENDS COMING FROM POWER SUPPLY TO BE PREPARED AS TERMINAL BLOCK MANUFACTURER RECOMMENDS. TERMINAL BLOCK SHOULD BE PLACED IN A LOCATION WHERE IT DOESN'T NOT AFFECT THE LUMINAIRE OPERATION.

ASSEMBLE MALE AND FEMALE CONNECTORS. TO ENSURE THE IP RATING IS SECURE, TIGHTEN THE NUT ON THE CONNECTOR UNTIL IT IS FULLY FASTENED, ENSURING THE CONNECTOR IS PROPERLY SECURED AND IP-PROTECTED. IT ADVISED THAT CABLE LENGTH IS LONG ENOUGH THAT IT REACHES DRY AREA FOR SPLICE CONNECTION DRY AREA.

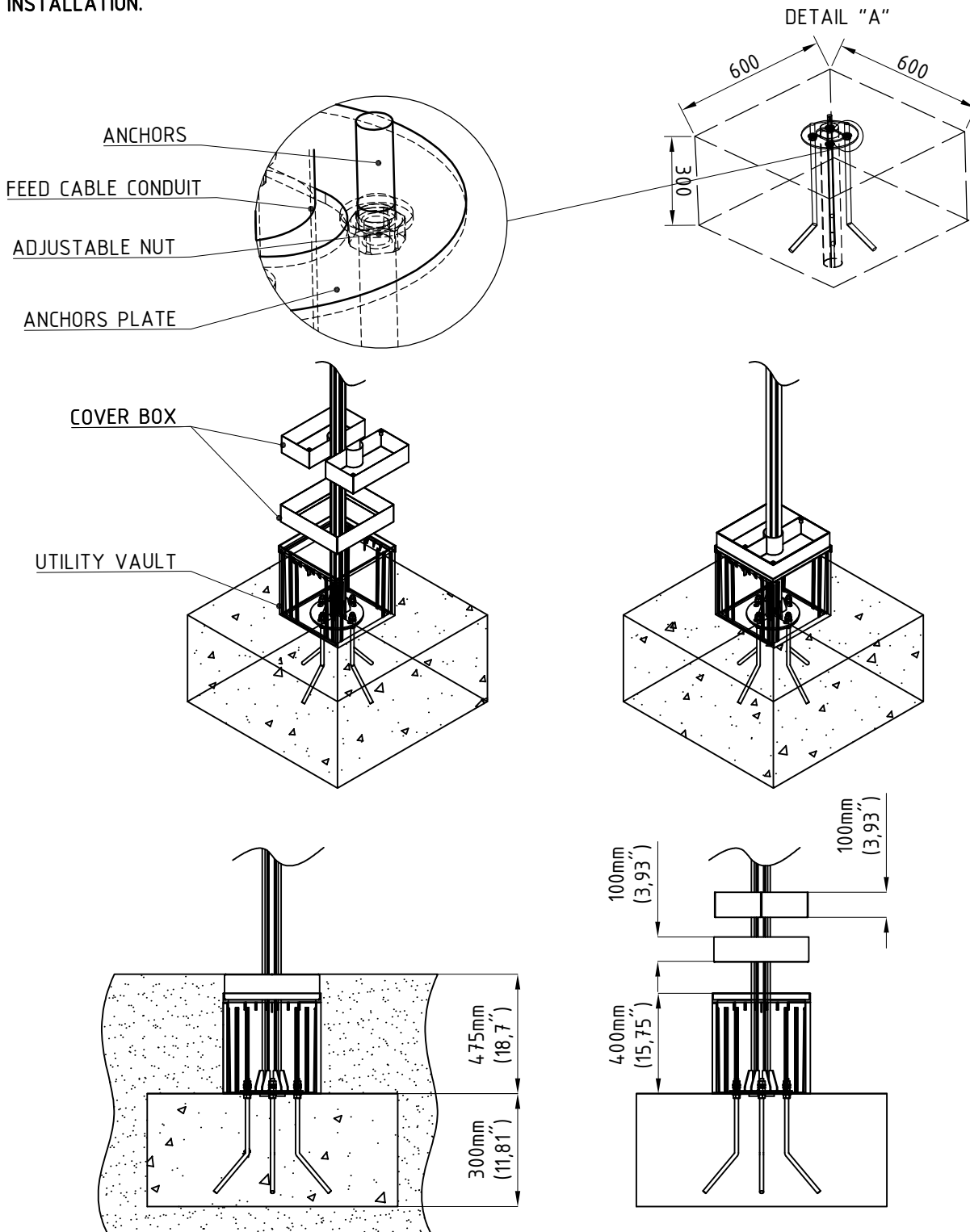
## FIXTURE DIMENSIONS



## UTILITY VAULT MOUNTING

1. PREPARE LOCATION FOR BOLLARD PLACEMENT AND POUR CONCRETE AROUND ANCHOR PLATE ASSEMBLY AS PER DETAIL "A" BELOW
2. ONCE CONCRETE IS CURED REMOVE THE NUTS AND WASHERS FROM ANCHORS AND PLACE UTILITY VAULT AND BOLLARD BASE ON TOP OF THE ANCHORING PLATE. FASTEN THE NUTS ONCE AGAIN TO FIX THE UTILITY VAULT, BOLLARD BASE.
3. CONNECT CABLE FROM THE POLE TO THE POWER SUPPLY UNIT IN THE UTILITY VAULT (CONNECTION TO BE PREFORMED BY QUALIFIED ELECTRICIAN).
4. ONCE EVERYTHING IS CONNECTED MOUNT THE UTILITY VAULT COVER AND FILL THE COVER BOX WITH DESIRED MATERIAL.

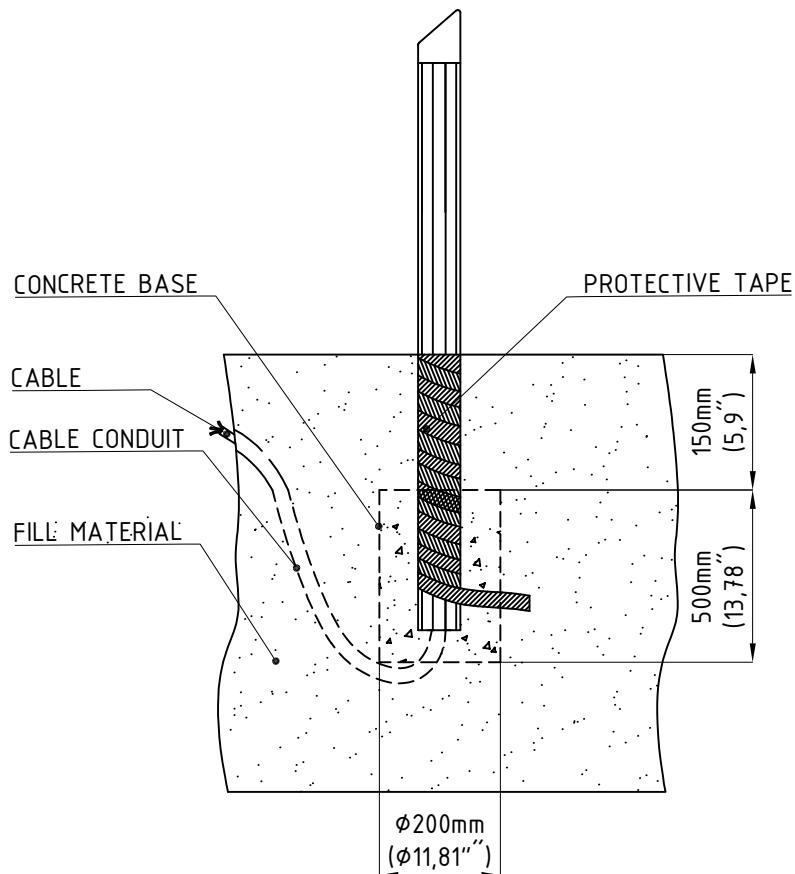
NOTE:  
ENSURE THAT PROTECTIVE TAPE IS APPLIED TO THE PORTION OF THE BOLLARD THAT WILL BE BURIED IN SOIL.  
POLE COVERS WILL BE SUPPLIED IN FULL LENGTH AND MUST BE CUT BY THE CUSTOMER AFTER LUMINAIRE INSTALLATION.



## DIRECT BURIAL

1. PREPARE THE LOCATION FOR BOLLARD PLACEMENT AND CONSTRUCT THE CONCRETE BASE ACCORDING TO THE PROVIDED DETAIL.
2. ROUTE THE POLE CABLE THROUGH A CONDUIT.
3. INSERT THE BOLLARD AND THE CABLE CONDUIT INTO THE FRESH CONCRETE AND HOLD IT IN PLACE UNTIL THE CONCRETE SETS. (MAKE SURE TO ROUTE THE CABLE CONDUIT OUTSIDE OF CONCRETE.) ENSURE THE BOLLARD IS PROPERLY ALIGNED AND LEVEL DURING THE CURING PROCESS.
4. ONCE THE CONCRETE IS SET, TAKE THE CABLE FROM THE CONDUIT AND MAKE A CONNECTION TO YOUR POWER SUPPLY. (CONNECTION TO BE PERFORMED BY QUALIFIED ELECTRICIAN).

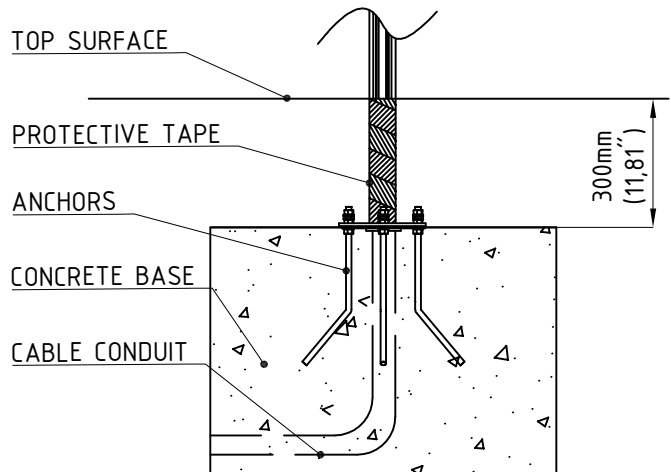
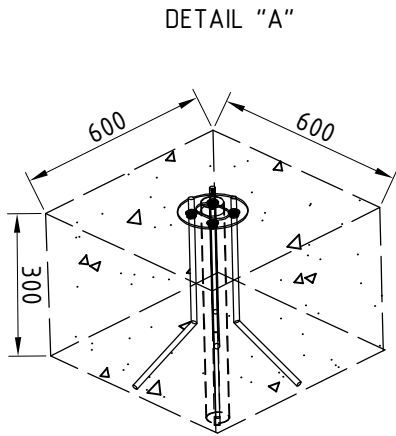
**NOTE:**  
POLE COVERS WILL BE SUPPLIED IN FULL LENGTH AND MUST BE CUT BY THE CUSTOMER AFTER LUMINAIRE INSTALLATION.



## IN-GROUND CONCRETE BASE

1. PREPARE LOCATION FOR BOLLARD PLACEMENT AND POUR CONCRETE AROUND ANCHOR PLATE ASSEMBLY AS PER DETAIL "A" BELOW.
2. ONCE CONCRETE IS CURED REMOVE THE NUTS AND WASHERS FROM ANCHORS AND PLACE BOLLARD BASE ON TOP OF THE ANCHORING PLATE. FASTEN THE NUTS ONCE AGAIN TO FIX THE BOLLARD BASE.
3. CONNECT THE FEED TO THE POLE CABLE. (CONNECTION TO BE PREFORMED BY QUALIFIED ELECTRICIAN).

NOTE:  
ENSURE THAT PROTECTIVE TAPE IS APPLIED TO THE PORTION OF THE BOLLARD THAT WILL BE BURIED IN SOIL. POLE COVERS WILL BE SUPPLIED IN FULL LENGTH AND MUST BE CUT BY THE CUSTOMER AFTER LUMINAIRE INSTALLATION.



## SURFACE MOUNTED CONCRETE BASE

1. PREPARE LOCATION FOR BOLLARD PLACEMENT AND POUR CONCRETE AROUND ANCHOR PLATE ASSEMBLY AS PER DETAIL "A" BELOW.
2. CONNECT THE FEED TO THE POLE CABLE. (CONNECTION TO BE PREFORMED BY QUALIFIED ELECTRICIAN).
3. MOUNT THE BOLLARD ONTO THE ANCHOR. SECURE IT ON ALL THREE SIDES USING SCREWS.

