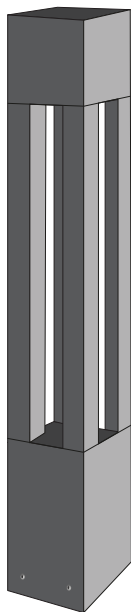


Tower NG Bollard

Installation Manual



⚠ WARNINGS

The installation of this lighting bollard fixture and all operations performed during installation must be carried out in accordance with national safety regulations. Installation and commissioning of the product must only be performed by a professional electrician. The manufacturer cannot be held responsible for any damage or problems that may occur due to incorrect installation or improper use. In case of any modifications to the product, the responsibility arising from these changes shall belong to the person/institution making the modification.

Steel anchor bolts and nuts are not included with the product

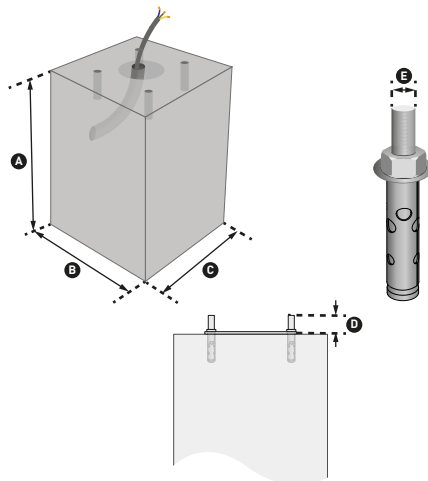
1 ANCHORAGE AND CONCRETE DETAILS

For a secure installation, the concrete must be prepared first. If the concrete is not ready at the installation site, pour concrete suitable for your product size according to the reference dimensions given in Table 1. Before pouring the concrete, ensure that at least 50 cm of slack is left in the electrical connection cable on the concrete surface to allow for a safe main line electrical connection.

For areas where concrete has already been prepared, proceed to drill the concrete in accordance with the steel anchor bolts. Place the product flange on the concrete, adjusting the direction of the product. Mark the flange holes on the concrete with a suitable marker. Drill the holes using a suitable drilling tool. Clean the holes and then insert the steel anchors bolts so that they fit tightly.

Ensure correct alignment using a spirit level for concreting and subsequent operations.

Steel anchors bolts and nuts used during installation are not sent with the product.

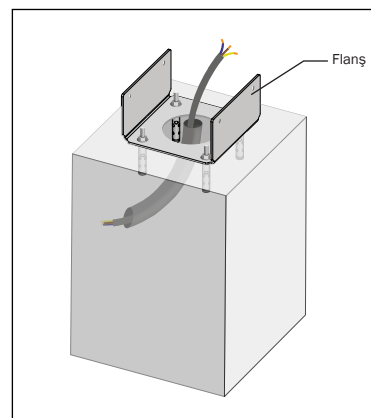


2 PRODUCT PREPARATION

When removing the product from its packaging, ensure that the product is not damaged.

For the electrical connection to be made in the next step, pass the main electrical cable through the opening in the center of the flange.

Place the product flange onto the steel anchor bolts fixed in the concrete and secure the flange to the concrete using nuts.



3 INSTALLATION OF THE PRODUCT

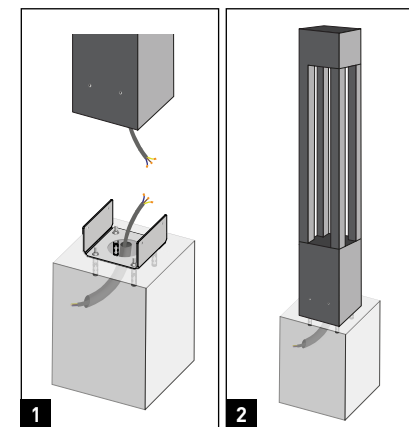


Power must always be disconnected during installation. Before energizing the system, it must be ensured that all safety precautions have been taken against potential problems.

Ensure that the electrical connection of the product is made correctly using the table shown below.

Check whether appropriate and correct grounding has been performed.

After the electrical connection is made, place the product properly on the flange. Secure the product to the flange using the screws provided with the product.



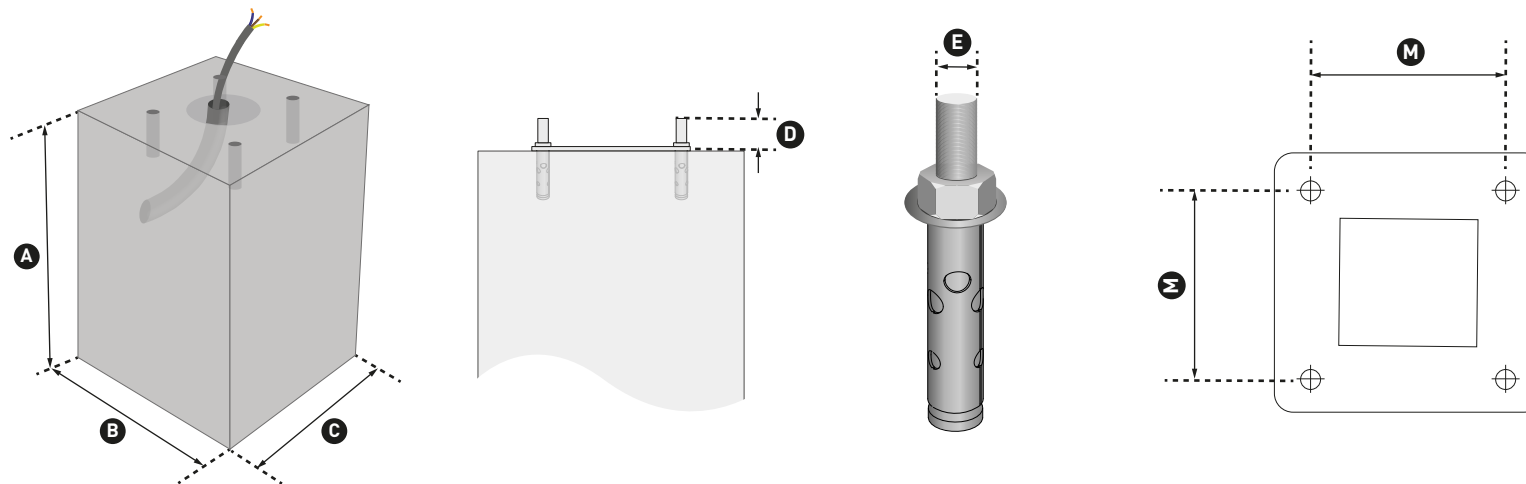
Electrical Connection

ON/OFF	DALI
N Ⓢ BLUE ⊕ Ⓢ GREEN,YELLOW L Ⓢ BROWN	Brown : F Blue : N Green-Yellow :Ground Black : DALI (+) Grey : DALI (-)
220-240V AC~ 50-60Hz	

Tower NG Bollard Concrete and Steel Anchor Dimensions (Table.1)

Height	Concrete Dimensions			Steel Anchor Bolt Dimensions		Flange Hole Dimensions	
	A	B	C	D	E	L	M
300	300	300	300	20	Ø 8	80	80
500	300	300	300	20	Ø 8	80	80
750	300	300	300	20	Ø 8	80	80
1000	400	400	400	20	Ø 8	80	80

* All dimensions are given in millimeters (mm).



⚠ WARNINGS

Concrete and steel anchor bolt dimensions are given as a reference for general use. However, the climate conditions of the installation area (e.g., wind load, snow load, temperature changes) and soil properties (e.g., hardness, load-bearing capacity, groundwater level) may require changes to these dimensions. Therefore, prior to installation, appropriate dimensions should be determined by considering the soil analysis and climate conditions of the region, and if necessary, these values should be re-evaluated by engineering consultancy or an expert team.

Steel anchor bolts and nuts are not included with the product