

# Installation Instructions: Retrofit LED TBar T5/T8 (60920-24)

| Date     | Revision |
|----------|----------|
| 18.06.26 | 3        |



## Important Information

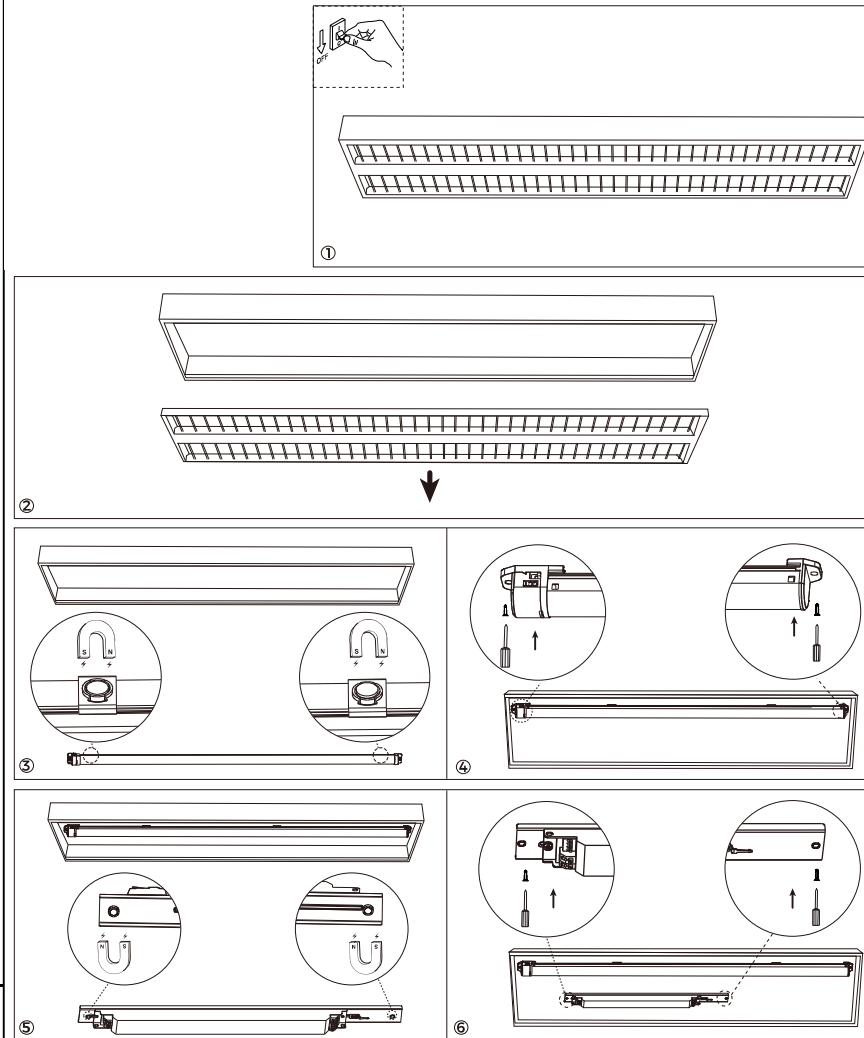
**We recommend that luminaires are installed by a qualified electrician ensuring the installation complies with current IEE wiring regulations & local building control.**

- On emergency fittings, all tests should be carried out in accordance with current emergency lighting regulations.
- BELL Lighting will not accept responsibility for any claims arising from poor installation.
- The operating temperature should be between -20°C and 35°C, and 0°C to 35°C for emergency fittings.
- Always switch off mains supply before installing.
- Upgrading of MCB may be necessary.
- Ensure all cable connections are sound, and wires cannot be pulled out.
- Ensure luminaire is well maintained and suitable for fixing of the T-Bar.
- Ensure luminaire IP integrity is maintained after installation of the T-Bar.
- Ensure that there is adequate free air ventilation around the fitting.
- Suitable for DALI and Switch dimmable applications.
- Not suitable for Mains or 0/1-10V dimming.
- Not suitable for ATEX hazardous zones (explosive atmospheres).
- Indoor use only, not suitable for outdoor use or areas of high humidity.
- On emergency versions, only use battery as supplied.
- On emergency versions, add a Classification label amended with installation date.
- On emergency versions, allow the battery to fully charge for 24 hours before performing the initial discharge test.
- If the lighting fails within 3 hours of an emergency discharge test, the battery is to be replaced. Contact your local distributor for a suitable replacement.
- Not intended for use by children.

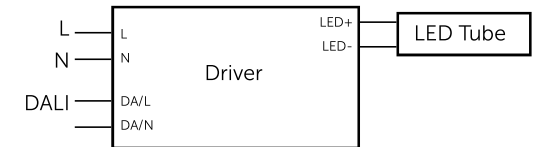
This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery. Where possible recycle your packaging.



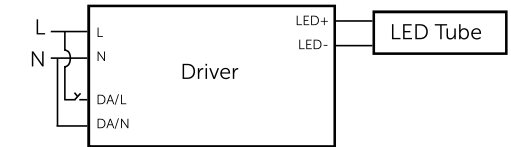
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**This equipment should be installed by a competent electrician**



Wiring Diagram for DALI Dimming



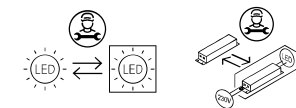
Wiring Diagram for Push/Switch Dimming



## DALI Driver

This luminaire contains a DALI ready driver.

If the luminaire is to be installed on a retractive switch for switch dimming, the driver must be set to SwitchDim mode by switching the retractive switch off and on 3 times within 3 seconds.



**This luminaire contains a light source of energy rating C**

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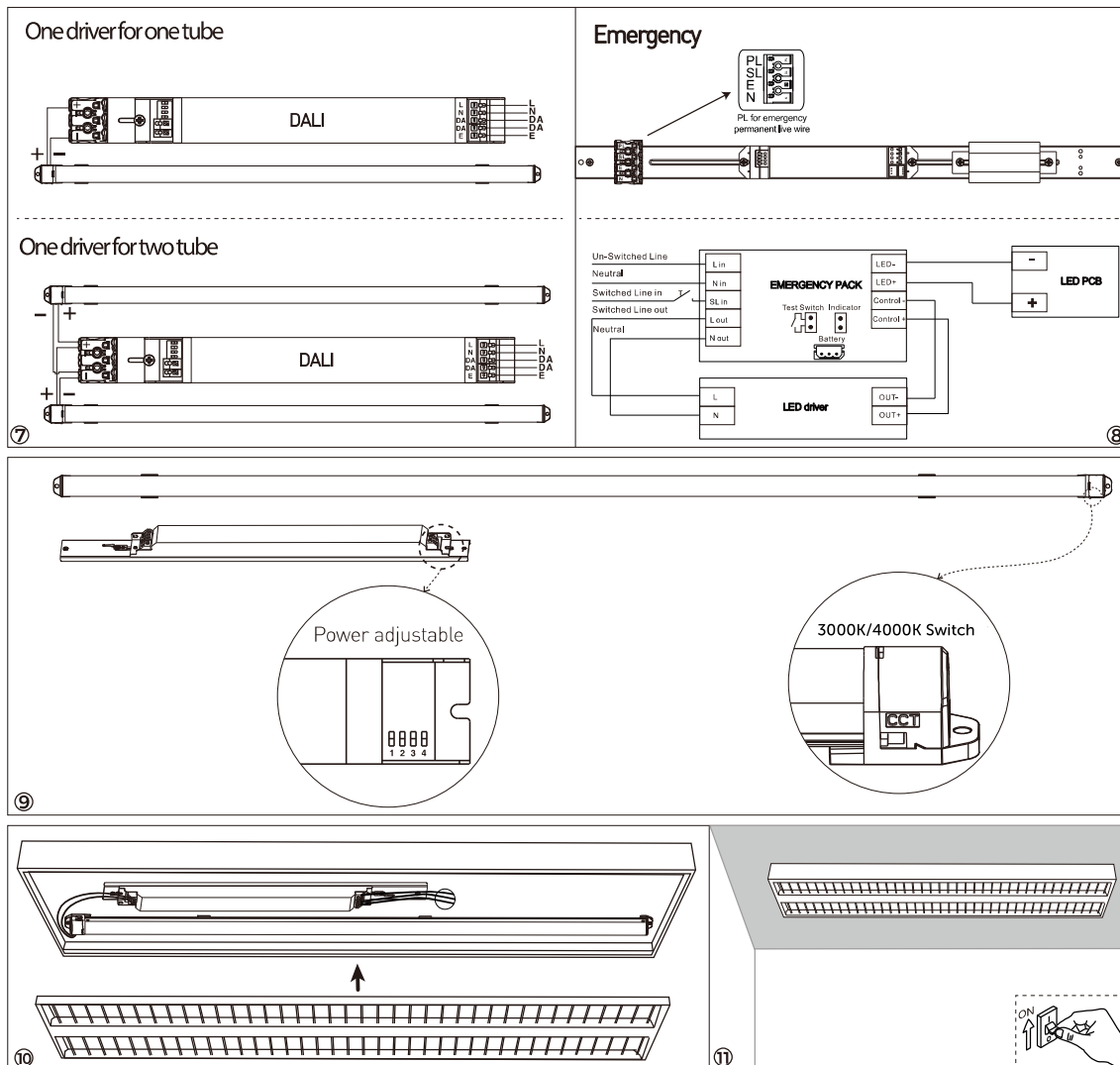
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## Power Switch Settings

| NOVA             | Wattage | Switch Settings |    |    |    |
|------------------|---------|-----------------|----|----|----|
|                  |         | 1               | 2  | 3  | 4  |
| 60920 4ft Single | 15W     | ON              | ON |    |    |
|                  | 20W     | ON              |    |    | ON |
| 60921 4ft Double | 30W     |                 | ON | ON |    |
|                  | 40W     |                 | ON |    |    |
| 60922 5ft Single | 20W     | ON              | ON |    | ON |
|                  | 28W     | ON              |    |    | ON |
| 60923 5ft Double | 40W     |                 |    |    | ON |
|                  | 56W     |                 |    | ON |    |

Switch ON in the ^ position, switch off in the v position

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## Self-Test Emergency Pack

The 60924 emergency pack is a self-test unit, performing automated tests and giving a visual indication of any faults found through the indicator LED.

A short press (>1s) of the test button will initiate a function test lasting 5 seconds, provided the battery has a capacity of more than 5% (minimum 30 minutes charge).

A long press (>10s) of the test button will reset the system timer. Every 7 days, a 5 second long function test is performed to check the functionality of the emergency unit, battery and the LED module.

After the first 24 hours from initial power up, the unit will perform a 3 hour duration test to verify the battery capacity. This duration test is then repeated every 180-182 days.

Function and duration tests will only commence once the battery is fully charged. If a mains supply failure occurs during a function or duration test, the test will be postponed, and the system will enter emergency operation. Following restoration of the power, any postponed tests will re-commence automatically once the battery is fully re-charged.

When a duration test has been successfully carried out, the indicator LED will slow flash Green for 5 days.

| LED Indication                         | Status                    | Description                                                            |
|----------------------------------------|---------------------------|------------------------------------------------------------------------|
| Permanent Green                        | Standby, System OK        | Mains operation, battery is charged                                    |
| Fast flash Green (0.25s ON, 0.25s OFF) | Function test underway    | Function test underway                                                 |
| Slow flash Green (1s ON, 1s OFF)       | Duration test underway    | Duration test underway                                                 |
| Permanent Red                          | Lamp failure              | Open circuit, short circuit or LED failure                             |
| Fast flash Red (0.25s ON, 0.25s OFF)   | Battery capacity failure  | Battery failed duration test                                           |
| Slow flash Red (1s ON, 1s OFF)         | Battery fault             | Incorrect battery voltage or short circuit or open circuit             |
| Green and Red both OFF                 | Battery operation         | Emergency mode: Mains disconnected or failed                           |
| Green OFF                              | Battery temperature error | Power is on and battery temperature is above 60(±2)°C or below 0(±2)°C |

If an error is detected, the indicator LED switches to Red. Once the error has been corrected, re-connecting the battery and the power will reset the unit and the indicator LED will revert to Green.

Battery charging is suspended if battery temperature is above 60(±2)°C or below 0(±2)°C.

**Additional manual testing of self-test systems can cause damage to the battery, leading to duration test failures.**

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## Testing & Commissioning for Emergency Luminaire

- Ensure the Load is connected.
- Connect the battery.
- Switch on the Unswitched Supply - Check the Charge LED illuminates.
- Switch on the Maintained Supply - Check the LED illuminates as normal.
- Switch off the Maintained Supply.
- Switch off the Unswitched Supply - Check the Charge LED extinguishes and the load LED illuminates at a reduced output.
- Enter the commissioning date on the Battery Pack. Switch on the Unswitched Supply

| <b>Luminaire Ref/Location</b> |        | <b>In Case of difficulty, contact the Installation Engineers:-</b><br>Tel: _____ |        |      |        |                 |        |      |        |      |  |
|-------------------------------|--------|----------------------------------------------------------------------------------|--------|------|--------|-----------------|--------|------|--------|------|--|
| Full Recharge Time 24 Hours   |        | Duration 3 Hours                                                                 |        |      |        | Lamp Type - LED |        |      |        |      |  |
| <b>ROUTINE TEST RECORD</b>    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Monthly Test                  | Year 1 |                                                                                  | Year 2 |      | Year 3 |                 | Year 4 |      | Year 5 |      |  |
|                               | Signed | Date                                                                             | Signed | Date | Signed | Date            | Signed | Date | Signed | Date |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Functional                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |
| Three Hour                    |        |                                                                                  |        |      |        |                 |        |      |        |      |  |