

Installation & Wiring Instructions

JCB/75/M and JCB/75/DA



PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

The JCB/75 is a wall mounted exit sign with a 75m viewing distance.

The battery is a 6.4V 3.8Ah lithium iron phosphate (LiFePO₄). The LEDs are driven at 700mA and provide suitable legend illumination for 3 hours.

The control gear that powers the JCB/75/DA operates with the DALI-2 protocol.

The JCB/75 is supplied with one of a choice of ISO7010 legend panels: arrow up, arrow down, arrow left, or arrow right. This should be specified at the point of order.

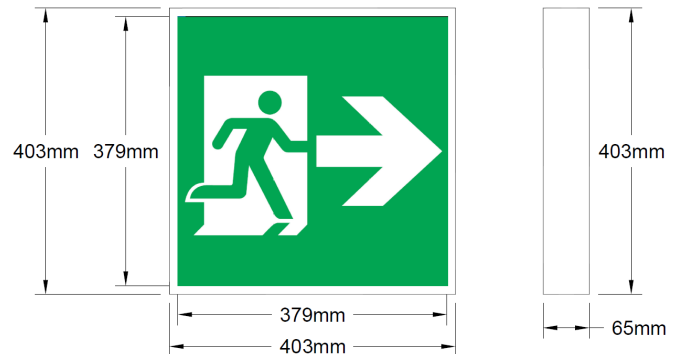
The unit will recharge the batteries after the test of clause 22.3 of BS EN 61347-2-7:2012.

The product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022.

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Basic Charging M *	13.2W 68mA $\lambda = 0.81$
Power Basic Charged NM *	1.3W 13mA $\lambda = 0.43$
Power DALI Charging M *	13.5W 67mA $\lambda = 0.84$
Power DALI Charged NM *	1.4W 12mA $\lambda = 0.48$
Duration	3-hours
Minimum Battery Tc	5°C
Maximum Battery Tc	55°C
Ta	5°C to 25°C
Battery Fuse	Internal
Discharge Current	900mA nominal
Discharge Voltage Cut-off	5V
Ingress Protection	IP20
Battery Pack	6.4V 3.8Ah LiFePO ₄
Charge Current	225mA nominal
Recharge Period	24-Hours
Overall Weight	1.1Kg

* LiFePO₄ control gear will initially charge the battery and then spend 90% of its operational life in a 'Charged' or standby state.



Part Codes

JCB/75/NM/**	Non-maintained basic emergency
JCB/75/M/**	Maintained Basic Emergency
JCB/75/DA/NM**	Non-maintained DALI-2 Self-test
JCB/75/DA/MD**	DALI Maintained DALI-2 Self-test

** Denotes arrow direction required. AU for arrow up, AD for arrow down and ALAR for arrow left/arrow right

Important

It is recommended that the unit is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The product requires an un-switched supply for charging the battery..

ISOLATE MAINS SUPPLY AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation:

1. Cut power to the location, via the breaker.
2. Remove the frame and legend panel from the body of the exit sign.
3. Install the base to the wall, as required and bring the mains cable through one of the cable entry points.
4. Install the mains cables either as maintained, or non-maintained and, where required, the DALI bus cables.
5. Once permanent power is assured, connect the 3-way battery connectors .
6. Fit the legend panel to the body, ensuring the correct arrow direction is used for the location. This should follow the guidance of BS (EN) 5266-1.
7. Offer the frame to the base and tighten the fixing screws. Close the screw covers.
8. Reinstate power to the location at the breaker.
9. See Testing and Commissioning section.

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ISS 060825



Litemesh



LiFePO₄



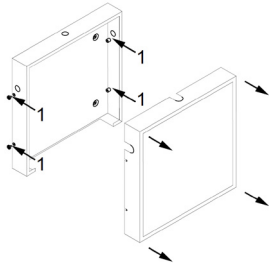
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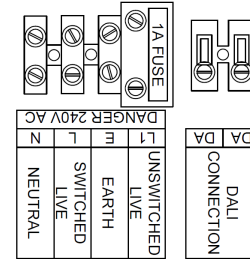
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Figure one



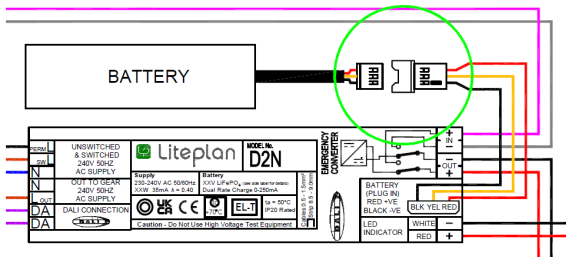
1- Take the fitting apart by loosening 4 screws (1) and pull frame and legend panel away. Unplug earth lead. Fix base to the wall using the four fixing points. Bringing in supply cable through the various entries.

Figure two



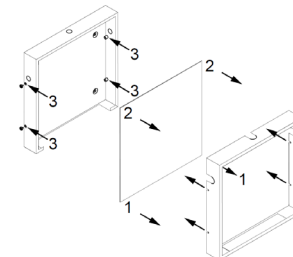
2 - Fit the supply cables to terminal blocks as shown: L1 Unswitched Live, L Switched Live, N Neutral, E Earth and DA DALI bus

Figure three



3 - Once permanent power is assured, connect the two three-pole battery connectors together.

Figure four



4 - Slide the legend panel into the frame fitting base (1) first and then top (2), connect earth lead from frame to base and fit frame to base. Tighten the side screws (3) to secure the frame and legend to the base

Figure five

Testing/Commissioning:

- Ensure all connections are made, including the batterythe load is connected.
- Switch on the Un-switched Supply (L1) - Check the charge LED illuminates.
- Switch on the switched supply (L) - Check the central load illuminaites (maintained units only)
- Switch off the Un-switched Supply (L1) - Check the charge LED extinguishes and the central load LED illuminates.
- Switch on the Un-switched Supply (L1).

N.B. - DALI emergency packs will initially flash green (2s green, 0.2s off) and if mains is uninterrupted, will carry out a self-commissioning test 48 hours later. Following this test it will show green charge healthy (solid green) showing that it has successfully carried out the 3-hour test. If the mains is being interrupted during the 24 hours prior to the duration/commissioning test, then the test will be postponed until the battery is 100% charged. Once 100% charged the 3-hour test will run automatically. On a new site, installers should refrain from running any manual 3-hour tests until at least 24 hours after the commissioning test has been successfully completed (with unbroken mains), as the batteries will not be 100% charged and the results therefore invalid.

