iQuatics' electronic ballast instructions

iQuatics' ballasts are designed to be built into luminaires. Safe and reliable operation of the components requires that the luminaire complies with the relevant standards and regulations. The luminaire should be designed to adequately protect the control gear from dust, moisture and pollution. The luminaire manufacturer remains responsible for the correct choice and installation of the control gear according to the application. Specifications of the control gear shall not be exceeded when it is used in the luminaire in the actual operating conditions. The ballast shall not be used outside the luminaire.

Important General Application Guide

- Please make sure your electricity supply is turned off prior to installation
- They should be installed by a qualified electrician
- Electronic ballasts must be earthed
- Make sure that the maximum case temperature indicated is not exceeded at any time
- The iQuatics' ballast should only be used with the high output tubes stated on the specification label on the ballast itself
- The cable between the electronic ballast and the lamp should be a single solid core cable (Available from iQuatics)
- Push in terminals: Solid core conductor only
- Wire connections as shown on the ballast label and the wiring diagram data sheets

WARNING: Plugging the ballast in the incorrect wiring may permanently damage the ballast

- Mains wiring should not be bunched together with lamp wiring
- Mount the ballast against a flat surface to ensure good heat dissipation
- Ensure the correct electrical ratings for the lamps being used (see table 1)

Noise Avoidance

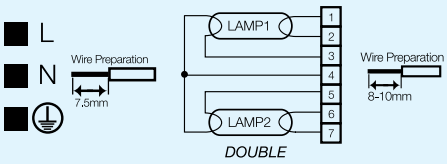
- Ensure the ballast is securely fixed within the luminaire
- Fix the ballast at a minimum distance of 3mm from the side of the fitting
- Ensure that the fitting is of rigid construction (especially at the point where the ballast is fitted)
- In large fittings the ballast should be separated from the fitting by mounting it on an aluminium plate (approx. 2mm thick)
- Mount as few ballasts as possible in one fitting
- If using multiple ballasts in a fitting, ensure that the ballasts are mounted as far as possible from each other

Site Considerations

Magnetic and electronic ballasts should not be connected to the same electrical circuit. The energy spikes produced by magnetic ballasts may result in damage to the electronic ballasts.

IMPORTANT: Wiring connections for electronic ballast may be different among manufacturers, therefore the wiring diagram must be strictly followed. We have supplied wiring diagrams for a selection of ballasts known to be used in Juwel High Lite units.

IQUATICS BALLAST

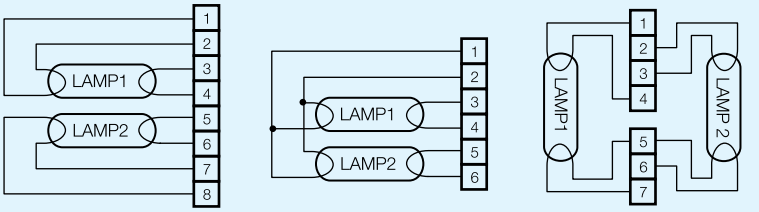


Strip the seven ends of output cable to be Each 8 - 10mm

As Illustrated in our Wiring Diagram

Insert the ends of input cable to terminal block adjacent to 'L', 'N', ⏚, symbol side the ballast.

Select the wiring diagram illustrated on the front of your Juwel



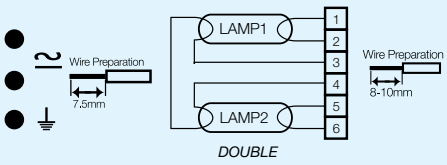
Juwel			
iQuatics	1 2 3 4 5 6 7 8 / 1 2 3 4 5 6 7	3 4 1 2 5 6 / 1 2 4 3 5 6 7	1 4 7 5 6 2 3 / 1 2 3 4 5 6 7

Cable 4 and 5 from the Juwel Ballast connect into slot 4 on the iQuatics ballast.

Cable 2 from the Juwel Ballast splits and connects into slot 3 and 5 on the iQuatics ballast.

Cable 4 and 5 from the Juwel Ballast connect into slot 4 on the iQuatics ballast.

HELVAR BALLAST



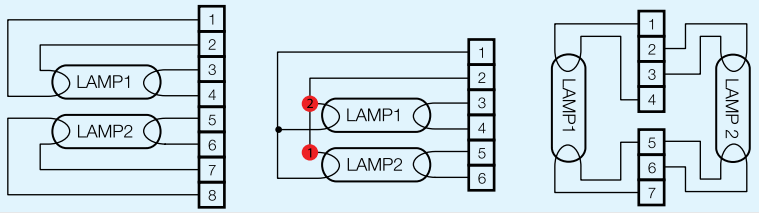
Strip the seven ends of output cable to be each 8 - 10mm

As Illustrated in our Wiring Diagram

≂ Live and Neutral insert into these positions, either way round

⏚ Earth inserts into this position

Select the wiring diagram illustrated on the front of your Juwel



Juwel			
iQuatics	3 4 2 7 5 6 1 8 / 1 2 3 4 5 6	3 4 1 2 5 6 / 1 2 4 3 5 6	1 4 7 6 2 3 5 / 1 2 3 4 5 6

Cable 1 and 8 on the Juwel Ballast need joining together.

Red 1 cable connects to number 4 and red 2 connects to number 3 on the Helvar ballast.

Cable 5's on your Juwel ballast join together.