

## A2RL power interface and remote release module

### Specification

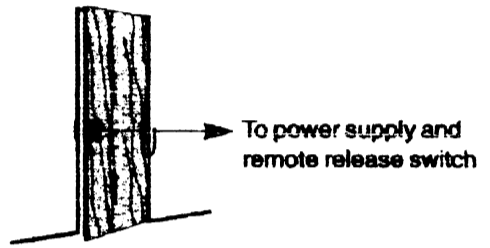
Power requirement	9–12V AC/DC. Nominal 12V at 100 ma minimum
Back-up battery type	Ni Cad rechargeable
Battery life on power down	Nominal 30 days typical for RL40 – when batteries are fully charged and depending on usage after power fails
Remote release cable	2 core
Remote release switch	Normally open, momentary action or time Lock released for as long as contact is closed

**⚠** The RL lock is fail dormant, i.e. it does not change state when power is removed. It is therefore not generally considered suitable for connecting to a fire alarm as part of a fire exit route. The CWTKesolve Controller Reader system should be used in this case and used with a fail-safe electric release in order that the door is released if the power fails.

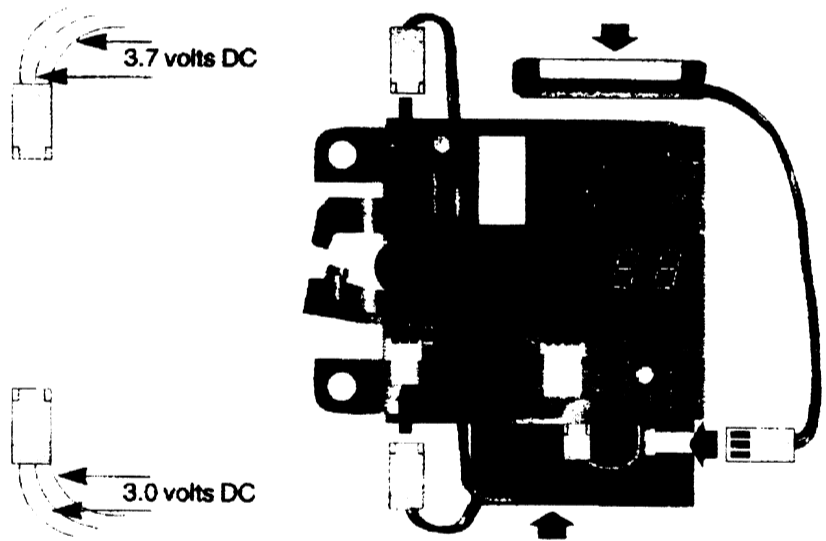
**⚠** Ensure that the external power supply into the A2RL module is fused with a 1 amp fast-blow fuse.

### Installation

- 1 Locate wiring run from the frame to the lock position using a door loop or Crompton conductor hinge\*.



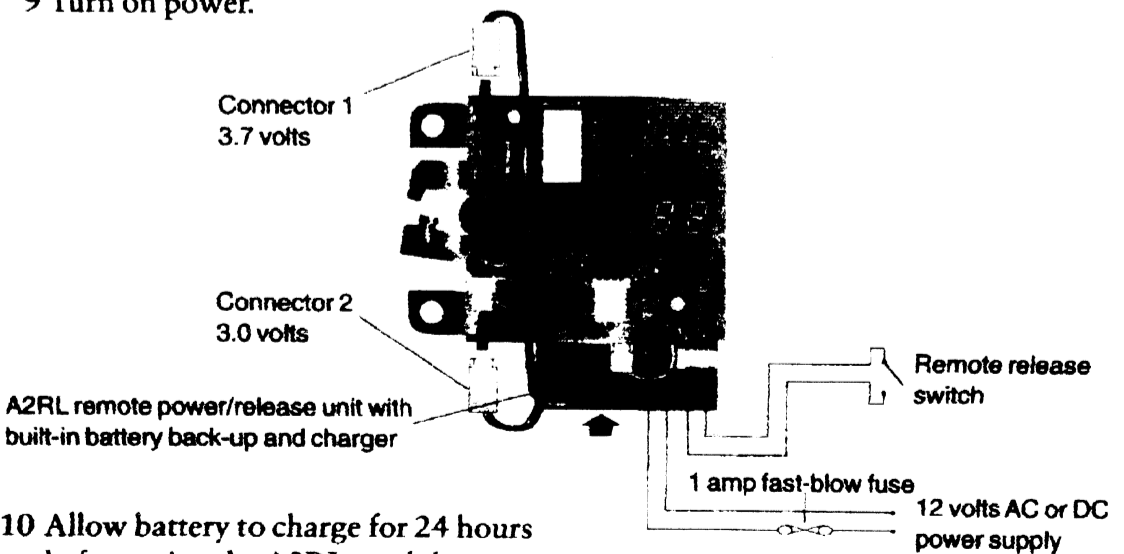
- 2 Feed wiring through hole in lock base plate.
- 3 Remove the sponge pads from the double battery compartment on the lock body. Take care not to damage the underside of the printed circuit board.
- 4 Insert A2RL module into the double battery pack compartment and battery pack 3 into the single battery compartment – ensure that both parts are as far to the rear of the lock as possible. Ensure no wire is trapped behind the module or batteries.
- 5 Connect the reader cable.
- 6 Thread the battery cable round the rear of the lock and connect into module board.



- 7 Thread the longer cable, from the module, under the handle and route cable between components as shown and connect. Connect shorter cable to opposite connector.
- 8 Connect the relevant wires as shown below.

**⚠** If using a DC power supply then the positive wire must be connected to the far left terminal. Any excess wire can be snugly bedded against the terminal block.

- 9 Turn on power.



- 10 Allow battery to charge for 24 hours before using the A2RL module.

- 11 Check voltages as follows: Connector 1 = 3.7 volts DC  
Connector 2 = 3.0 volts DC.