

## **Photo Timing Gate IPC-3210-T**

### **Introduction**

The Photo Timing Gate consists of a high efficiency LED and a phototransistor mounted facing each other. The phototransistor can be considered to be a semiconductor switch, when it is dark it acts as an open switch, when it is illuminated by the LED it acts as a closed switch.

### **Battery Replacement**

The unit requires a 9V battery of the 6LR61 (PP3) alkaline type or equivalent. Access to the battery compartment can be obtained by removing the four screws securing the rear cover of the section housing the switch.

### **Operation**

The unit is designed to act as a remote start/stop switch for a range of timing equipment. Connect the sockets on the Photo Timing Gate to the timing instrument being used, red to red and black to black. The timing function will be started or stopped each time the light beam is broken or restored. Consult the manufacturers instructions for the timing equipment being used for the exact input function.

In some cases it may be necessary to reverse the connections for correct operation.

### **'g' by Freefall Experiment**

The unit is recommended for this application and instructions can be found on the IPC website: [www.ipcel.co.uk](http://www.ipcel.co.uk)