

# International Sports Timing PRODUCT SPECIFICATIONS IST DECKLIGHT

## Introduction

IST's **DECKLIGHT** is a patented optical sensor system that replaces traditional in-deck wiring or on-deck cables. Without metal contacts there is increased reliability, longevity and significantly lower maintenance than with traditional metal-to-metal connections. Without the possibility of corrosion, there is no loss of conductivity from the touchpad through the deck connection. **DECKLIGHT** uses an LED that flashes when a touchpad or button is activated. That flash is detected by a photo sensor in the deck box or cable and the signal is transmitted to the Computer Timing Interface. The LED's are powered by induction, in much the same way as a rechargeable electric toothbrush, but the Computer Timing Interface provides the charge. The **DECKLIGHT** system is completely sealed. It will work in standing water, requires no batteries and there is no possibility for signal interference, so the times are always accurate.

## I. IST DECKLIGHT

### A. Physical

|             | <b>In-Deck Plate</b>                  | <b>On-Deck cable (connector box)</b> |
|-------------|---------------------------------------|--------------------------------------|
| Length      | 4"                                    | 3"                                   |
| Width       | 4"                                    | 3"                                   |
| Height      | 0.5"                                  | 1.5"                                 |
| Connections | 1 pad, up to 3 backups, start/speaker | 1 pad and 1 backup                   |
| Material    | PVC Type 1                            | ABS Plastic                          |

NOTE: In-deck plates fit on a standard 4" x 4" x 6" deck pull box.

### B. Environmental

1. The operating temperature range is 0 to +55 degrees Celsius.
2. The storage temperature range is -55 to +85 degrees Celsius.
3. The operating humidity is 100% (products operate submerged in water, but this is NOT recommended).

### C. Operating Features

1. Light interface uses an LED in the touchpad or backup button connector and a photodiode sensor in the in-deck plate or on-deck cable socket to transmit and receive the signal.
2. The LED and photodiode are powered by an electromagnetic charging circuit. No batteries are required.
3. The connector and socket are waterproof plastic with a "quick lock" latching system.
4. Deck cables have strain reliefs at all connectors.
5. The **DECKLIGHT** System is compatible with all IST Timing Systems. A modification to the Computer Timing Interface may be required.

### D. Warranty

1. IST **DECKLIGHT** cables and deck plates are covered by a 2 year limited warranty.

### E. Patent

1. The **DECKLIGHT** design is protected by US Patent No. 7,372,014 B1.