

**WIRELESS INFRARED PHOTOCELLS  
PERFORMANCE, RELIABILITY AND SIMPLICITY**



Smart and compact, the Wireless Infra-Red Photocells (WIRC) is the must-have equipment to complete your timing system. Its integrated design will simplify your installation, and ensure professional performances at competitive prices.

The Wireless Infra-Red Photocells (WIRC) detects and transmits impulses to the TBox-Radio timing console or an MLED display using a bidirectional radio protocol. Wired connection to any timing devices can still be performed via a 3.5mm Jack connector located on the back.

Up to 4 WIRC can communicate with 1 TBox-Radio.

**Wireless communication**

To improve robustness and increase reliability, a two-way protocol is used in the communication between Transmitter WIRC and TBox-Radio. In case of frequency jamming or poor radio transmission data will be resent several times.

**Expensive sports timing devices are history**

FDS-Timing makes constant efforts in the design of cost-effective solutions while keeping as a priority performance reliability and simplicity.

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**Homologation**

FIS : FDS.001T.20  
FEI : 2019001-1B/C

### Technical specifications

Frequencies & Power (*)		
Europe		869.4 - 869.65 MHz      100 mW
India		865 - 867 MHz            100 mW
North America		920 - 924 MHz            100 mW
Japan (TBox-41 only)		922 - 927 MHz            20 mW
Radio Impulse precision		1/10'000 sec
Min locking time (between two detections)		200ms for Groups A-D 500ms for Groups E-F
IR detection		> 100m
Operating temperature		-20°C to 60°C Battery charge possible only between 0°C and 45°C
Battery		LiPo 1700mAh
External Power Input		USB compatible (5V +/- 10%) up to 1A
Autonomy :	Receiver Emitter	150 hours radio ON / 250 hours radio OFF 180 hours
Dimension		111x58x27mm
Weight (Tx/Rx)		200g / 200g

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