

RRS INFRARED SENSOR



The RRS infrared sensor is comprised of four components: the sensor, the reflector, and two mini-tripods. On the back of the sensor is an ON/OFF toggle switch (yellow dot is ON), and two sets of banana jacks (black = ground, red = impulse). Inside the sensor enclosure are 8 “AA” alkaline batteries. The two sets of banana jacks provide parallel connection to a stopwatch, TAG Heuer HL610/640/670 wireless transmitter, or to another sensor in parallel connection (when more than one sensor is in use - example: 40-yd dash with start and finish sensors). TO SAVE ON BATTERIES, TURN THE POWER SWITCH OFF WHEN NOT IN USE!

When the sensor is out of alignment with the reflector, you will hear a sustained beep. When the sensor is in alignment with the reflector, the beep turns off. The maximum range between sensor and reflector is roughly 18’. In most cases for athletic testing, 8-10 feet is an adequate distance between sensor and reflector. A ¼-20 nut is provided on the bottom of the sensor and reflector for attachment to the mini-tripod. Depending on type of timing device, a dedicated cable that connects the timing device or wireless transmitter to the sensor will be needed. The interconnect cable is not always included. Contact RRS for custom cabling for your particular timing device. To replace the batteries, remove the 4 Phillips screws on the top of the sensor. The battery cradle is located just under the enclosure cover.



Specifications:

Input voltage: 12VDC by 8 AA alkaline batteries

Logic: Normally open working contact. +5vdc (provided by timing device) → ground

Sensing range: approx. 18 feet

Response time: 1-millisecond repetitive

Temperature range: -40F – 120F