

PHOTOCELLS

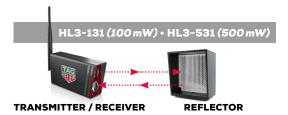
COMPARATIVE TABLE

An electric photocell is a device composed of a photosensitive sensor whose electrical properties (voltage, resistance...) vary according to the intensity of the light radiation captured.

It's strongly recommended to use HL3-135 and HL-535 type photocells in motor sport which are equipped with a transmitter and an infrared receiver. This type of cell offers comfort and reliability in all circumstances.



- Distance transmitter → receiver: up to 80 m 262,4 ft
- · Very easy cell alignment
- · Avoid any reflection of a vehicle passing in front of the line
- · Allow to be able to time safely in case of heavy rain, dust released by vehicles



These photocells (made up of an integrated transmitter/receiver) and a reflector, can present risks in motorsport:

- Limited distance transmitter/receiver → reflector : Maximum 20 m • 65,6 ft
- Risk of disturbance (reflection of the vehicle) in front of the photocell
- · Reduced distance in case of rain / strong dust









NAME AND REFERENCE

HL3-135

HL3-535

HL3-131

100 mW

HL3-531

PRINCIPLE	Infrared high fr Detection of signal I

INFRARED DISTANCE POSSIBLE OUTPUT IMPULSE

TEMPERATURE RANGE

INTERNAL BATTERY

AUTONOMY

POWER

RADIO IMPULSE RANGE

equency 32 768 kHz by frequency interruption

POSITION LOW: up to 40 m • 131.2 ft POSITION HIGH: up to 80 m • 262,4 ft

Via opto-coupler / Open Collector

From -20°C to +50°C • From -4°F to 122°F Li-Pol 3,7 V • 3 800 mAh Battery

> + charger 7,5 V 650 mA HL3-1 WIRELESS PHOTOCELLS

About 330 h at 20°C • 68°F INFRARED TRANSMITTER

LOW Position: 210 h • HIGH Position: 100 h

WIRELESS PHOTOCELLS About 330 h at 20°C • 68°F INFRARED TRANSMITTER LOW Position: 210 h • HIGH Position: 100 h

RADIO IMPULSE REACTION TIME

1 km • 0,6 miles

direct line of sight

Delay fixed of 200 ms \pm -0,5/10'000 s (\pm -0,02 ms)

Delay fixed of 200 ms +/- 0,5/10'000 s (+/- 0,02 ms) ISM Band - 868 MHz

Infrared high frequency 32 768 kHz

Detection of signal by frequency interruption

Up to 20 m • 65,6 ft with reflector use

Via opto-coupler / Open Collector

From -20°C to +50°C • From -4°F to 122°F

Li-Pol 3,7 V • 3 800 mAh Battery

+ charger 7,5 V 650 mA HL3-1

ISM Band - 868 MHz **EMISSION TYPE**

100 mW

500 mW 3.5 km • 1.9 miles

under optimal conditions under optimal conditions direct line of sight

1 km • 0,6 miles 3.5 km • 1.9 miles under optimal conditions under optimal conditions direct line of sight direct line of sight

500 mW

DIMENSIONS

150 x 80 x 40 mm 5,9 x 3,1 x 1,6 in

TRANSMITTER/RECEIVER 150 x 80 x 40 mm • 5,9 x 3,1 x 1,6 in REFLECTOR 93 x 50 x 97 mm • 3,6 x 2 x 3,8 in

800 g • 28,2 oz

600 g • 21,2 oz

WARRANTY

WEIGHT

2 years

2 years

