



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.

HL3-135 (100 mW) • HL3-535 (500 mW)



RECEIVER

TRANSMITTER

- 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

HL3-131 (100 mW) • HL3-531 (500 mW)



TRANSMITTER / RECEIVER

REFLECTOR

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



HL3-135



HL3-535



HL3-131



HL3-531

NAME AND REFERENCE	HL3-135	HL3-535	HL3-131	HL3-531
PRINCIPLE	Infrared high frequency 32 768 kHz Detection of signal by frequency interruption		Infrared high frequency 32 768 kHz Detection of signal by frequency interruption	
INFRARED DISTANCE POSSIBLE	POSITION LOW : up to 40 m • 131,2 ft POSITION HIGH : up to 80 m • 262,4 ft		Up to 20 m • 65,6 ft with reflector use	
OUTPUT IMPULSE	Via opto-coupler / Open Collector		Via opto-coupler / Open Collector	
TEMPERATURE RANGE	From -20°C to +50°C • From -4°F to 122°F		From -20°C to +50°C • From -4°F to 122°F	
INTERNAL BATTERY	Li-Pol 3,7 V • 3 800 mAh Battery + charger 7,5 V 650 mA HL3-1		Li-Pol 3,7 V • 3 800 mAh Battery + charger 7,5 V 650 mA HL3-1	
AUTONOMY	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	Delay fixed of 200 ms +/- 0,5/10'000 s (+/- 0,02 ms)		Delay fixed of 200 ms +/- 0,5/10'000 s (+/- 0,02 ms)	
EMISSION TYPE	ISM Band – 868 MHz		ISM Band – 868 MHz	
POWER	100 mW	500 mW	100 mW	500 mW
RADIO IMPULSE RANGE	1 km • 0,6 miles under optimal conditions direct line of sight	3,5 km • 1,9 miles under optimal conditions direct line of sight	1 km • 0,6 miles under optimal conditions direct line of sight	3,5 km • 1,9 miles under optimal conditions direct line of sight
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	
WEIGHT	800 g • 28,2 oz		600 g • 21,2 oz	
WARRANTY	2 years		2 years	

