

# Lap Trigger HF 58 Transmitter

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- ▶ High reliability, even in bad weather conditions
- ▶ 16 independent channels
- ▶ Main and sub trigger
- ▶ Internal Li-ion battery optional
- ▶ External supply possible

This lap trigger system HF 58 consists of a high frequency transmitter station and a receiver which is installed in the car.

The system allows an exact lap time measurement. Section time measurement for comparison of different car setups is also available if several transmitters are used.

## Application

Working frequency band	5,795 to 5,815 GHz
Frequency channels	16
Angle azimuth	11°
Angle elevation	90°
Transmission power	+10 dBm
Antenna gain	15 dBi
Side lobe suppression	>30 dB

## Functions

The transmitter sends coded signals across the race track via the directional antenna. The receiver at the race car permanently checks the signal parameters. If the trigger condition is detected, the receiver gener-

ates the appropriate beacon signal (main/sub trigger). The trigger point is located at broadside of the transmitter antenna.

## Technical Specifications

### Mechanical Data

Size	70 x 340 x 100 mm
Weight	1,020 g
Protection Classification	IP54 to DIN 40050, Section 9, Issue 2008
Ambient temperature	-20 to 60°C

### Option: internal accumulator

Additional weight	350 g
Charging time	< 4 h
Running time	Approx. 30 h

### Electrical Data

Power consumption	1.5 W
Supply voltage	6 to 18 V

### Connectors and Wires

Connector	ASL 0-06-05PD-HE
Pin 1	Power supply +
Pin 2	GND
Pin 3	Charge input +
Pin 4	n.c.
Pin 5	n.c.

### Installation Notes

The white antenna radome points to the car as shown in the drawing (see Dimensions) and must not be mounted behind metallic covers or carbon fiber filled elements.

Red LED shows low battery condition.

Charge control shows:

- blue when charging
- green when battery full

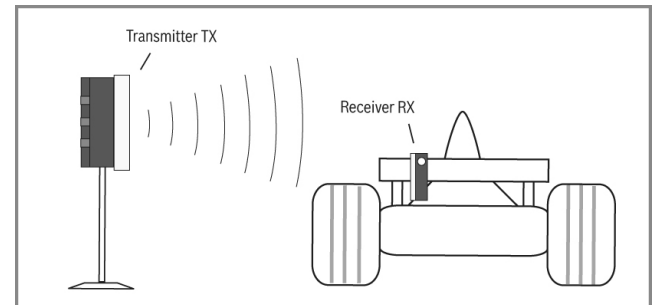
- red on power or battery failure

### Ordering Information

**Lap Trigger HF 58 Transmitter**  
Order number **F 02U V00 945-03**

**Lap Trigger HF 58 Transmitter with internal battery and charger**  
Order number **F 02U V01 042-03**

### Dimensions



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