

LAP TRIGGER

OLRx

Optical Lap trigger Receiver

Description

The OLRx is an infra-red optical beacon receiver used in combination with the OLTx IR binary coded sequence transmitters.

The OLRx triggers a 5 V pulse only when the received matching team-code is recognised.

This IR beacon receiver is compatible with most of the Magneti Marelli data loggers, dashboards and ECUs, for which the end-of-lap reference is of the outmost importance.

An indicator LED on the back end of the receiver lights and flashing during normal operation.



Main Features

- IR optical receiver
- Received team-code recognition
- LED for easy check-up and installation

Benefits

- Compatible with Magneti Marelli data loggers, dashboard and ECUs
- Compact, robust design
- CAN interface for code transmission
- Sector time detected

Typical Applications

MotoGP

Professional circuit and rally applications

Race motorcycle application

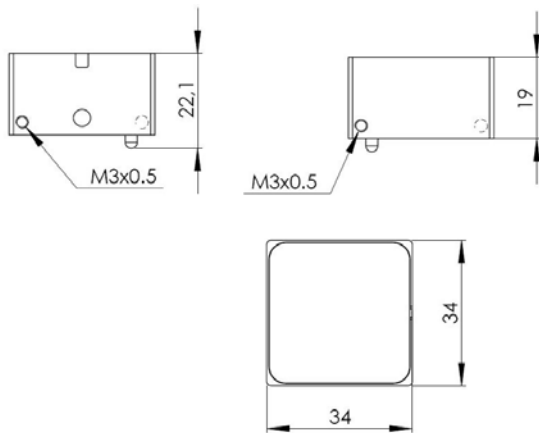
Touring car

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Dimensions



Dimensions in millimetres

Technical Characteristics

Range	1 to 25 m
Detection angle	see Fig. 1
Code detect time	5 ms
Output	
sleep mode	0 V
trigger	5 V
duration	5 to 1275 ms
Blue LED	code detection indicator
Power supply (V DC)	10 to 15 V
Current @ 13.2 V	75 mA
Protection	polarity inversion
Ambient operating temperature	-20 to 85 °C
Container	black anodised aluminium
Connector (on request)	LEMO PHG0B305 5 pole
Cable length	300 mm
Dimensions (approx.) (see drawing)	34 x 34 x 22 mm
Weight (approx.)	30 g

Detection angle

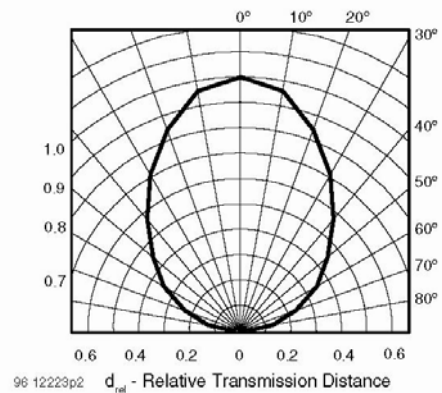


Fig. 1 - Horizontal Directivity

Connector

Receiver OLRx		
Pin/Color	Name	Description
1 Red	VBAT	Power supply
2 Yellow	ProgP	Reserved MM
3 Green	ProgN	Reserved MM
4 Black	GND	Ground
5 Blue	OUT	Signal

Spectral Sensitivity

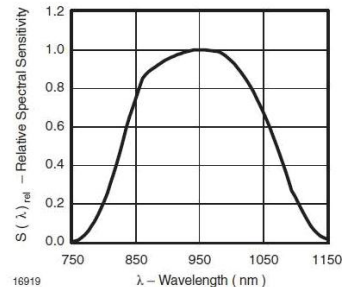


Figure 11. Relative Spectral Sensitivity vs. Wavelength

For further information, please contact:



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