

OLRx User

Optical Lap trigger Receiver

Description

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

The OLRx User 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

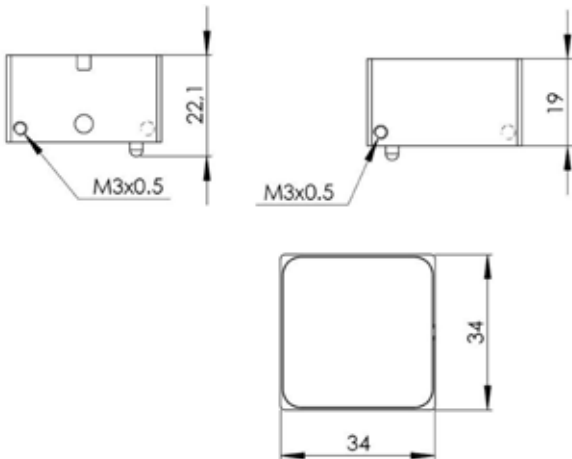
MotoGP
Rally cars
Racing bikes
Touring cars



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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

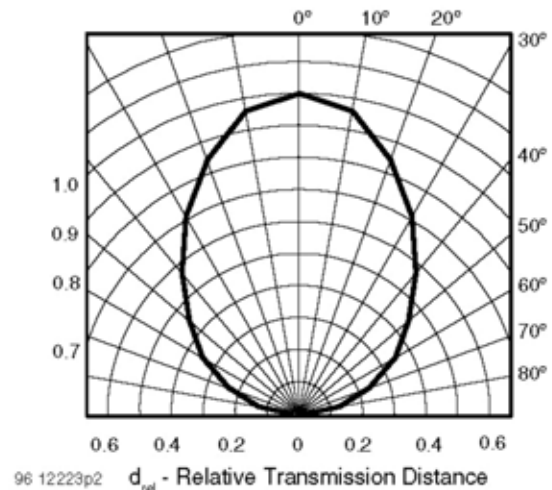


Fig. 1 - Horizontal Directivity

Cable Pin Out

Receiver OLRx User		
Color	Name	Description
Red	VBAT	Power supply
Yellow	CAN-H	Reserved MM
Green	CAN-L	Reserved MM
Black	GND	Ground
Blue	OUT	Signal

Spectral Sensitivity

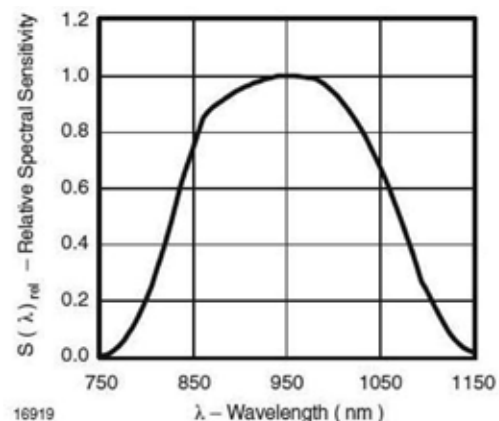


Figure 11. Relative Spectral Sensitivity vs. Wavelength