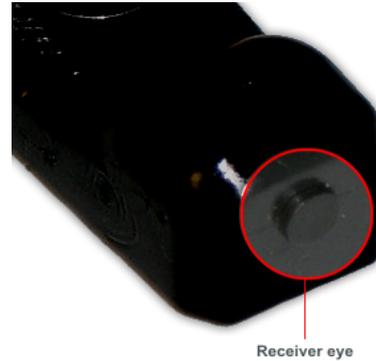


TECHNICAL DOCUMENTATION	14/04/2010	LAP	Optical lap receiver
Notes: technical documentation, dimensions and pinout of the optical receiver. – Release 1.01			



1 – Introduction

The infrared receiver, installed on the vehicle, receives the lap signal from the infrared transmitter. It is available with both plastic and metallic connector and just needs to be addressed to the side of the track where the transmitter is installed and to “see” it. The strong transmitter signal guarantees almost no missing laps, for the signal “bounces” off nearly everything.

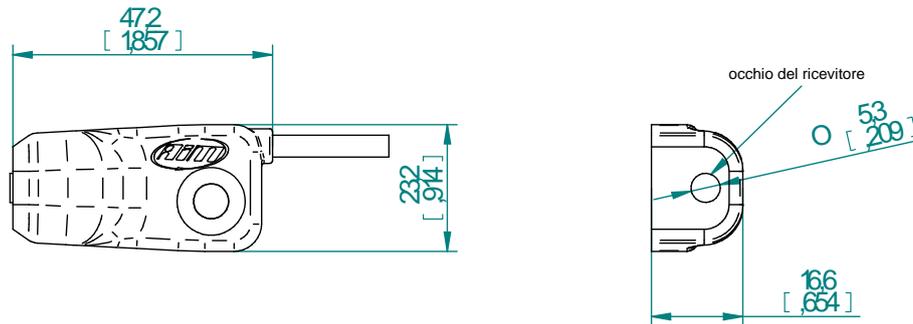
2 –Installation notes

The infrared receiver needs to be installed and fixed on the vehicle using plastic wrappers or a piece of Velcro®; When fixing the receiver please ensure that its “eye” looks to the side of the track the transmitter is installed. If needed make a hole in the front cockpit so that the receiver “sees” the transmitter.

3 – Part number

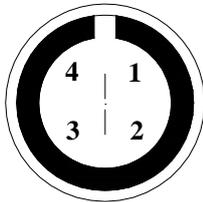
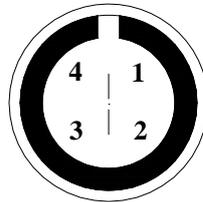
Optical receiver with plastic connector and 90 cm cable: **X41RX19090**
Optical receiver with plastic connector and 300 cm cable: **X41RX19300**
Optical receiver with metallic connector and 90 cm cable: **X41RX12090**
Optical receiver with metallic connector and 300 cm cable: **X41RX12300**
Optical receiver with metallic connector and 140 cm cable: **X41RX12140**

4 – Dimensions, pinout and technical characteristics



Optical receiver – Dimensions in millimetres [inches]

4.1 – Pinout

Pinout codified optical receiver connector		Pinout not codified optical receiver connector	
Pin	Function	Pin	Function
1	Optical codified signal	1	n.c.
2	GND	2	GND
3	V Battery (7-15 VDC)	3	V Battery (7-15 VDC)
4	n.c.	4	Optical not codified signal
			
Pinout 4 pins Binder 719 male connector Solder termination view		Pinout 4 pins Binder 719 male connector Solder termination view	

4.2 – Technical characteristics

Optical receiver	
General characteristics	Value
Cable length	900 mm
Dimensions	47.2*23.2*16.6 mm
Applications of codified optical receiver	Drack and Formula Renault
Applications of not codified optical receiver	Others