mobileye™

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Mobileye CAN-Reader

User Guide v0.2

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Change Control

VERSION	DATE	UPDATED BY	CHAPTER	ESSENCE OF THE CHANGE	APPROVED BY
01	August 2022	Sagi Rahamim	All	All Document	Guy Mizrahi
02	May 2026	Eran Levy	CAN Reader1		Guy Mizrahi
03					

Table Of Contents

Change Control 1
Table Of Contents 2
Mobileye CAN Reader 3
Supported Products 3
Intro 3
Details & Benefits Error! Bookmark not defined.
CAN Reader – ASY000292 4
Mobileye 8 Connection Scheme 4
Installation Instructions 5
Component Overview 5
How to place the Vehicle CAN in the CAN Reader 5
CAN Reader1 – ASY000278 6
Mobileye FishEye Connection Scheme 6
Installation Instructions 7
Component Overview 7
How to place the Vehicle CAN in the CAN Reader1 7
Technical Specifications 8

Mobileye CAN Reader

Supported Products

This document applies to the following products:

- Mobileye CAN Reader – Part Number: ASY000292 – used for Mobileye8 (also known as ME CAN Sensor)
- Mobileye CAN Reader1 – Part Number: ASY000278 – used for Shield+ & FishEye

Both products share identical functionality and technical specifications. The only difference between them is the connector configuration.

Intro

The Mobileye CAN Reader is a non-intrusive solution for CAN-bus connection.
No more wrong connections, warranty violation or liability issues.
The Mobileye CAN Reader will allow you to better handle a CAN-bus reading by simply placing the sensor on the vehicle CAN-bus wires without any wire cutting or pinching.

Benefits:

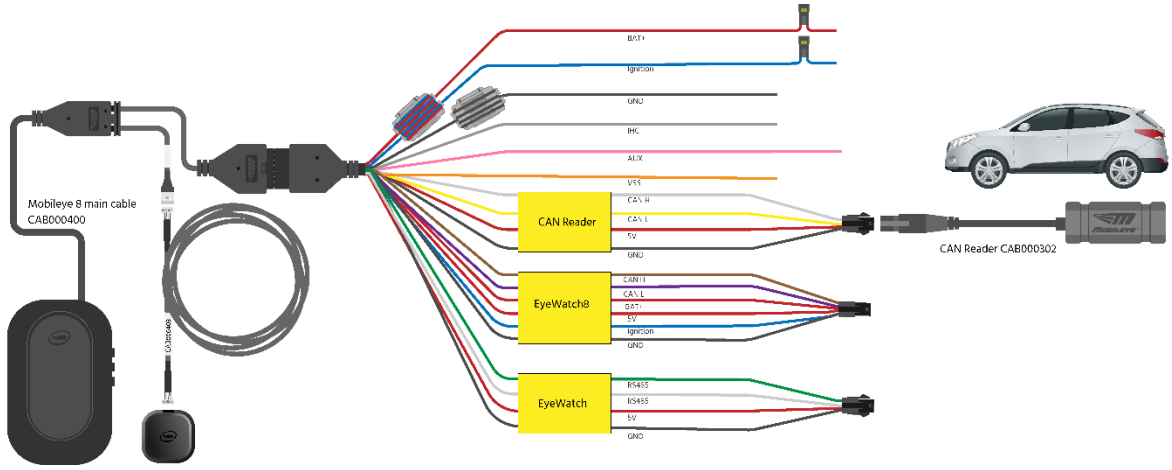
- non-intrusive installation Simply install over the CAN-bus wires, no need to cut, strip, and crimp or connect physically
- Read the data through the wire's isolation
- Fits most vehicles
- Supports all CAN-bus speeds
- Reliable CAN-bus data reading
- Fast and simple installation

NOTE!

Mobileye CAN Reader does not support FMS integration over J1939 CAN network

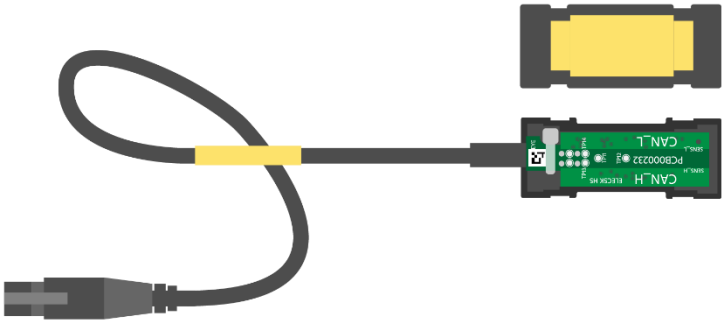
CAN Reader – ASY000292 (ME CAN Sensor)

Mobileye 8 Connection Scheme



Installation Instructions

Component Overview

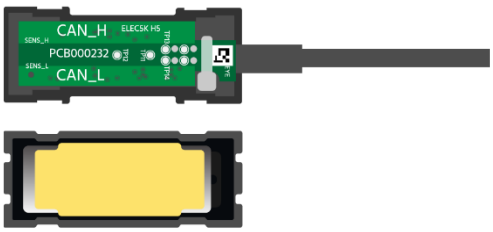


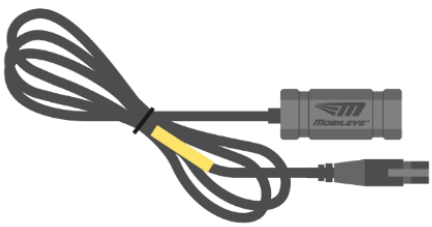
How to place the Vehicle CAN in the CAN Reader

1. Identify the vehicle CAN-bus wires

2. Untwist the CAN-bus vehicle wires over 5cm

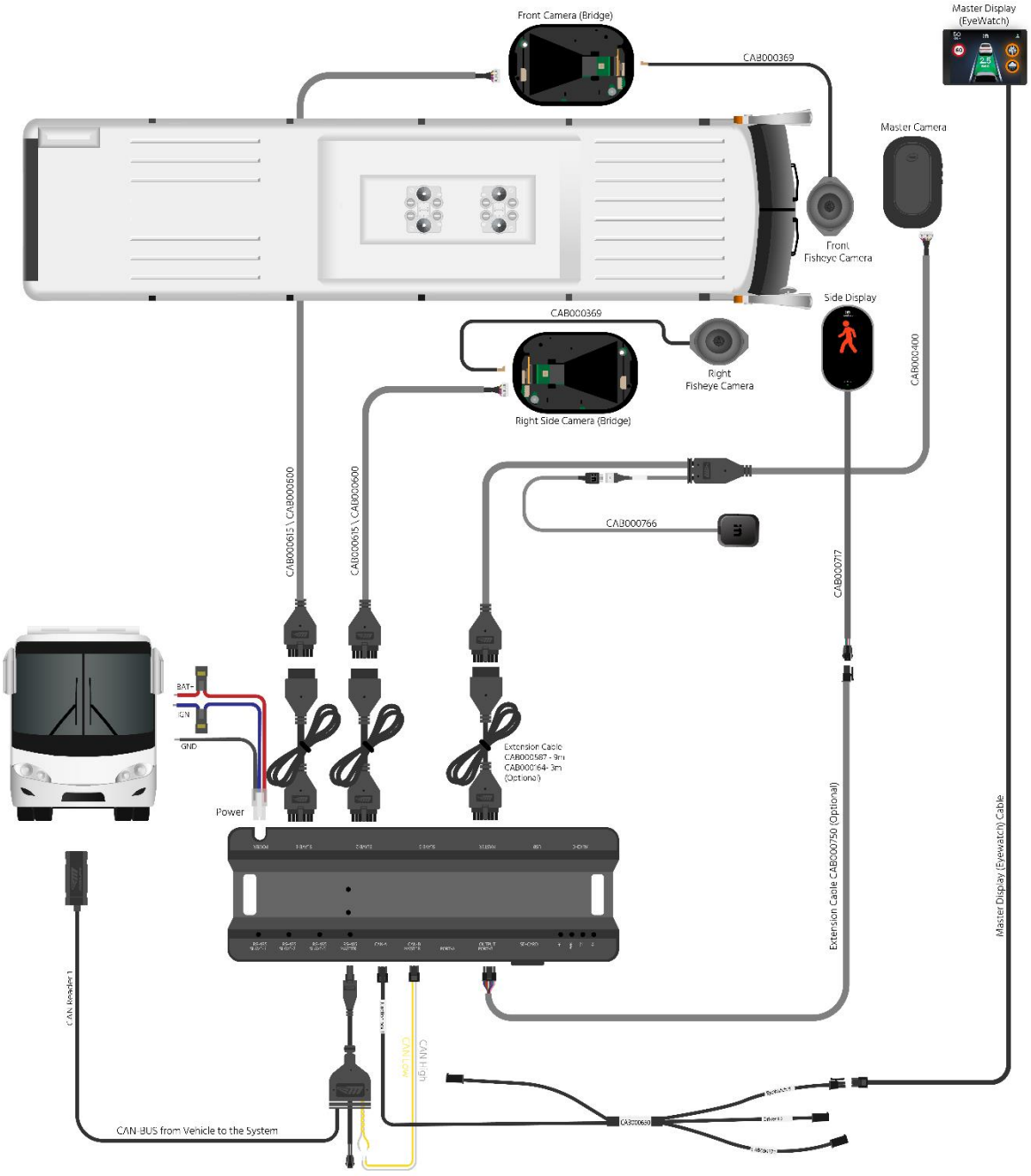
3. Simply place the CAN Reader over the CAN-bus wires as labeled on the CAN Reader module.





CAN Reader1 – ASY000278

Mobileye FishEye Connection Scheme



Installation Instructions

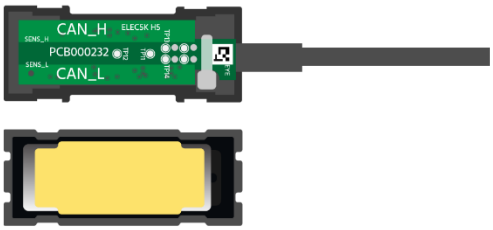
Component Overview

How to place the Vehicle CAN in the CAN Reader1

1. Identify the vehicle CAN-bus wires

2. Untwist the CAN-bus vehicle wires over 5cm

3. Simply place the CAN Reader over the CAN-bus wires as labeled on the CAN Reader module.



Technical Specifications

CAN Reader Unit	
Physical Characteristics	
Length (entire cable):	1300mm
Width:	40mm
Height:	3mm
Weight:	55g
Color:	Black
Case material:	Plastic
Electrical Characteristics	
Input voltage:	4.5-5.5VDC
Input current:	5V→30mA
Limited power source	200mA max at normal and single fault conditions
CAN High, CAN Low:	Nominal input range: 0-5V
	Common mode input range: 7-12V
Environmental Characteristics	
Operating temperature:	-20°c to +85°c
Storage temperature:	-40°c to +105°c

Conformity	
72/245/EEC	The automotive directive for electronic equipment which can build in road vehicles
ISO 7637	Road Vehicles Electrical Disturbances
ISO 11898	CAN for high-speed communication
ISO 9141	Road vehicles – Diagnostics systems. Requirements for interchange of digital information
RoHS	Yes
WEEE	Yes
EN60950-1:2006/A1:2010	Europe Safety
ETSI 301489-1/-17	Europe EMC
FCC Verification part 15 subpart B	USA EMC