MobilEye physical connection and configuration for FM63 devices

V1.0

FM63 devices supports MobilEye data. This data could be sent to server as other AVL elements.
In order to do that you need to connect and set configuration for FM63 correctly.
This document describes how to connect FM63 device to MobilEye unit.

NOTE: there is few different MobilEye module modifications and it might not be described in this document for more detailed information ask for MobilEye support. FM63 devices uses CAN1 for MobilEye to FM communications (see **Fig 1** bellow). You need to connect this CAN bus interface to Mobileye dedicated CAN bus interface for FMS units.

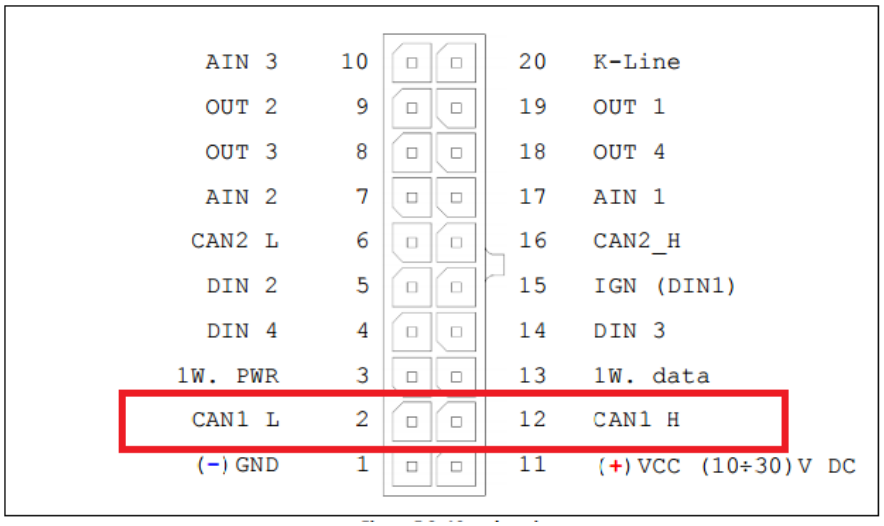
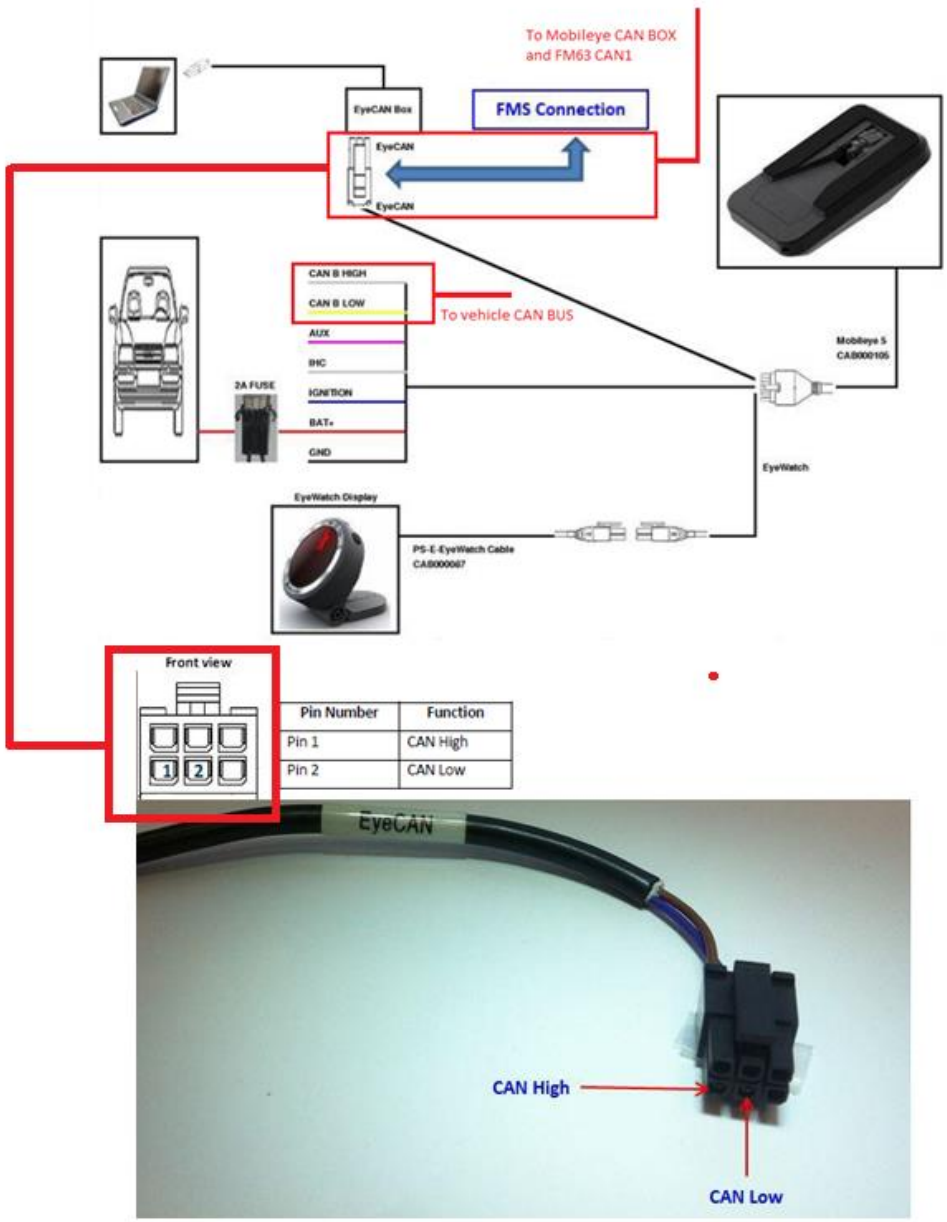


Fig 1. FM63 20-PIN output

Mobileye and FM63 devices communicates through CAN bus. FM63 CAN1 bus (see **Fig1**) is dedicated for MobilEye to FM communication. As described in MobilEye documentation default baud rate is 500 Kbps. Select Autobaudrate or 500 kbps CAN1 bus speed from FM63 configurator external devices tab.

Physical connection to Mobileye 5 CAN-A port

The Mobileye 5 CAN interface (CAN Bus) is located in the Main unit (SeeQ/camera).
The Typical SeeQ CAN Channel dedicated for FMS Integrations and similar communication is CAN-A channel. You need to connect your FM63 CAN1 interface to this connector.
In Mobileye 5 the CAN-A Channel is accessible for physical connection using the CAN-A Male connector, (6 Pins connector labeled "EyeCAN", see **Fig 2**) in the Mobileye 5 main harness.



z

Fig 2. Mobileye 5 CAN-A 6 Pin male connector PIN layout

FM63 device CAN1 H signal must be connected to „EyeCAN" Pin1 and CAN1 L to Pin2.
Please take a note that connectors for FMS devices (in this case FM63) are not suplied. This connection cable should be provided for FM63 CAN1 connection with Mobileye 5 „EyeCAN" port.

FM63 device configuration

User must select CODEC16 data type in order to get MobilEye data packets to server. This parameter is located in configurator global parameters tab under Record Settings (see **Fig 3**).
Then CODEC16 type is selected Mobileye IO elements could be selected.

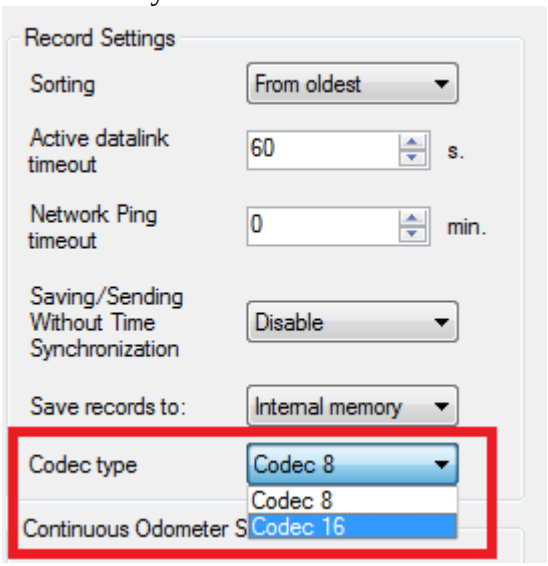


Fig 3. Codec16 parameter dropdown

TSR IO elements are not parsed in FM63 device, they must be parsed according to Mobileye documentation, because FM63 will send 8 bytes size RAW data of those parameters. All other elements are already parsed and showing correct values. Simply select elements which you want to get and generation type as other FM63 IO elements.

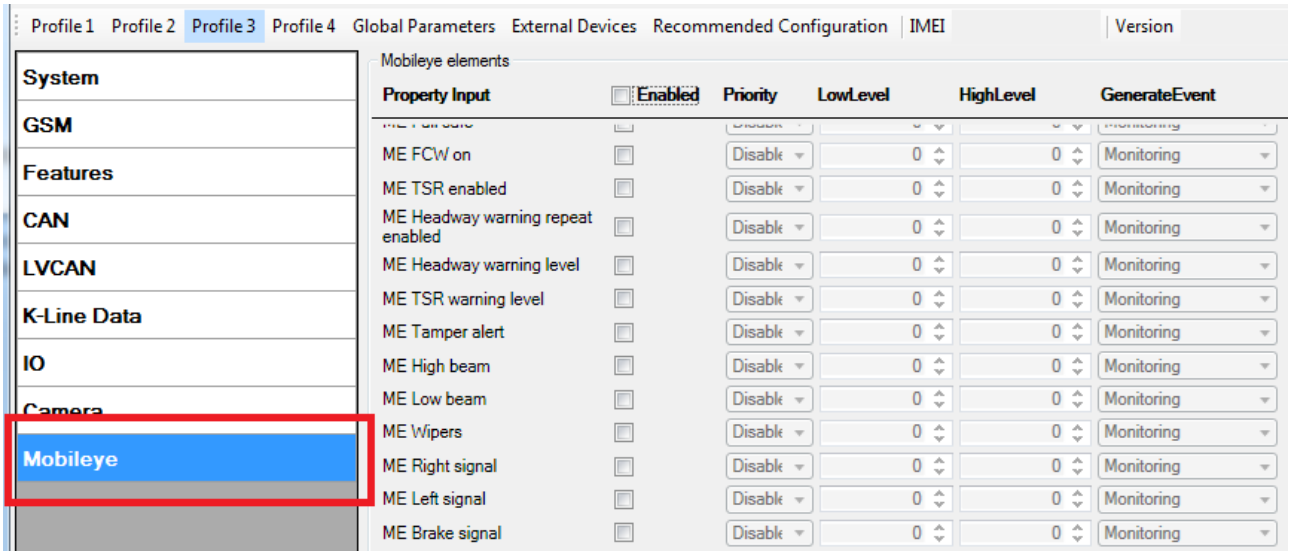


Fig 4. Mobileye IO elements