

# **BMW E6X, FXX Night Vision System Independent Controller**

## **Designation**

The module is designed for independent usage night vision systems installed in the BMW E6X, FXX series. The module contains two CAN buses: CAN1 (yellow - CANH, blue - CANL) and CAN2 (Yellow / Black - CANH, Blue / Black - CANL), inputs "Heater Button", "Zoom Button" / "Pedestrian Detect Button", "On/Off Button", "Bright", "Contrast", outputs "Heater Led", "Zoom Led" / "Pedestrian Detect Led", "On/Off Led", "Bright Led", "Contrast Led".

## **Connection**

BMW E6X night vision system, controls and indications connections with module are shown on figure 1.

BMW FXX night vision system, controls and indications connections with module are shown on figure 2.

CAN1 bus is designed for connection of the diagnostic equipment.

CAN2 bus is designed for connection to the night vision system.

Changing of the operation modes is performed by a single pressing on the corresponding buttons. Indication of the operation modes is effected with the corresponding indicators.

Adjusting the brightness and contrast of the camera night vision systems of BMW series FXX works as follows:

At long retention of the button is first smooth increase of the parameter to the maximum, and then gradually decreased from high to low, then slowly increase repeated. Changing the setting from a minimum to maximum value and vice versa is 2 seconds. When you release the button, the value is fixed. For a more accurate setting, you can use the touch of a button with a short duration - with the result that a tunable parameter varies in a small range in the opposite direction of the previous pressing. Each time you press the button of the parameter direction is reversed.

**Please note, that Night Vision Camera and Night Vision ECU has to be from the same car!**

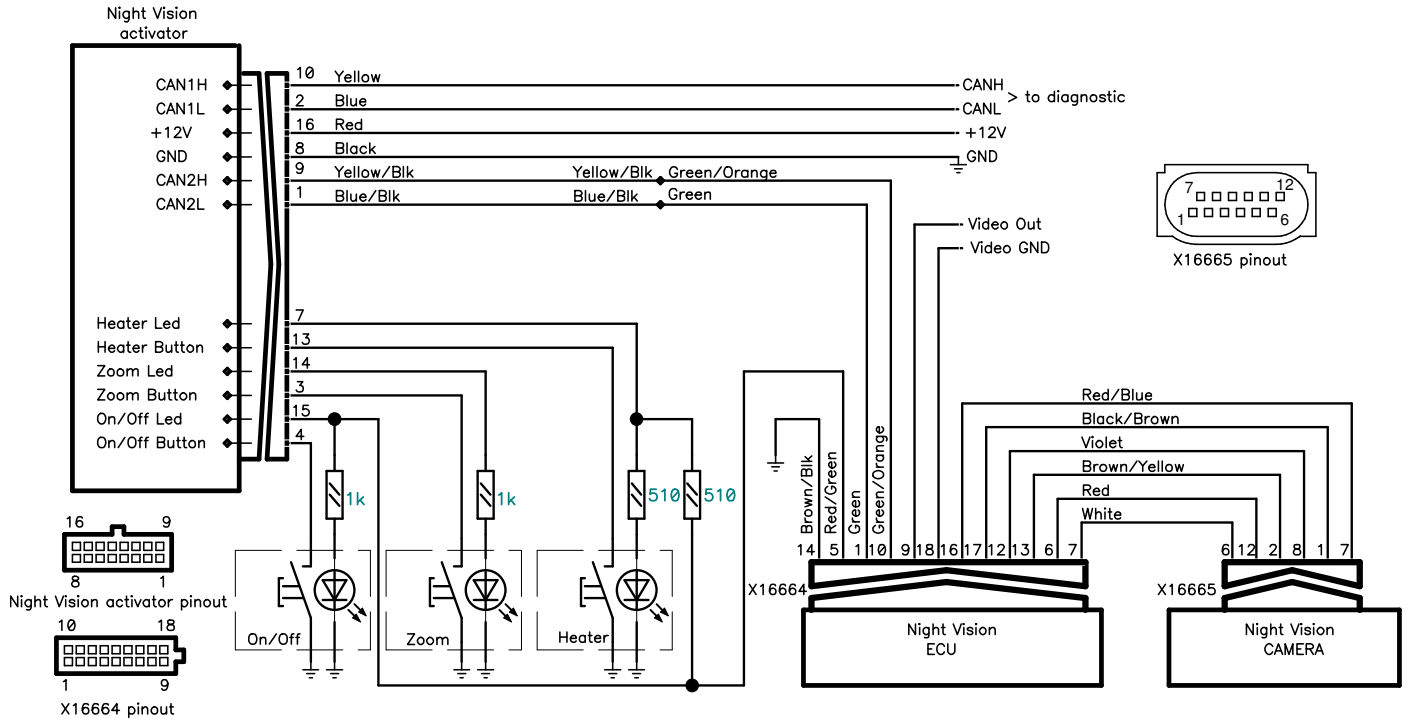


Fig 1. BMW E6X Night Vision System connection

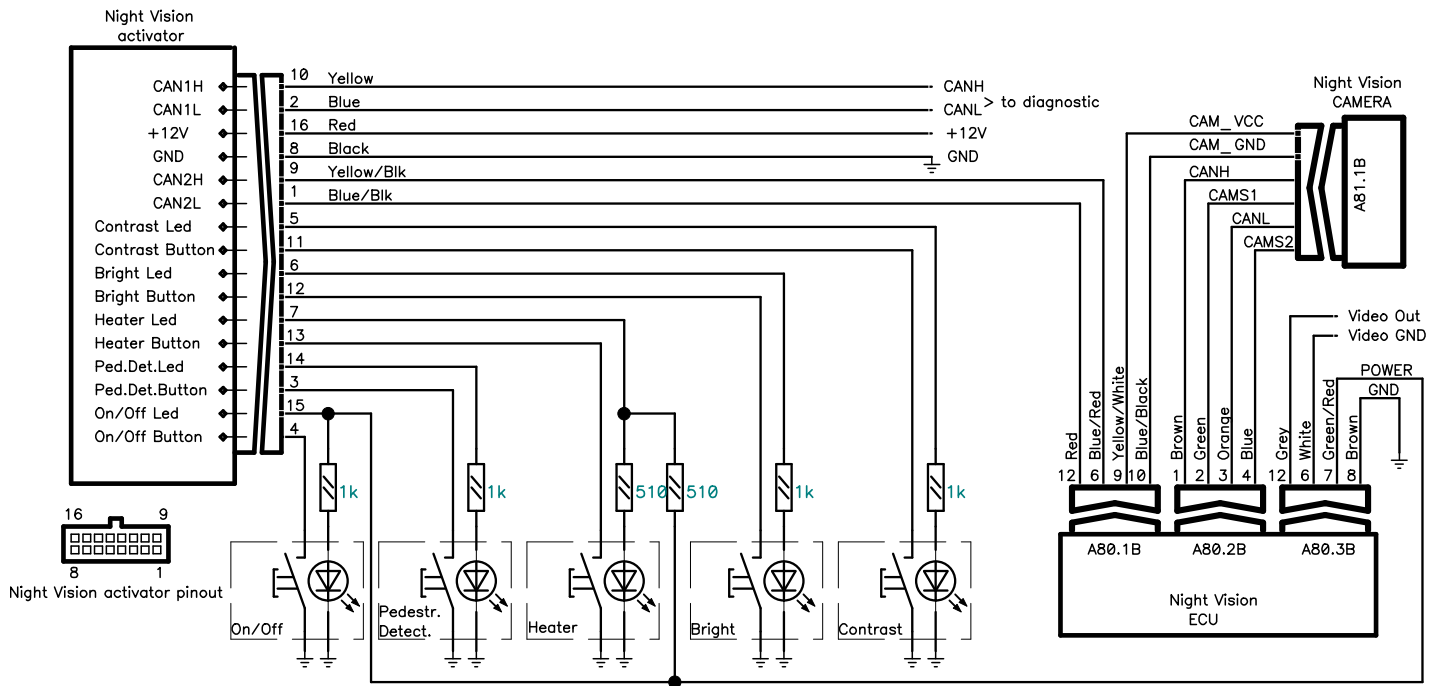


Fig 2. BMW FXX Night Vision System connection