

**DESCRIPTION AND OPERATION > INSTRUMENT PANEL AND INTERIOR SWITCHES
ILLUMINATION - OVERVIEW > OVERVIEW**

Dimmable illumination provides backlighting to switches and control components when the headlamps or parking lamps are on. The level of intensity is adjusted by pressing the illumination dim up switch to increase intensity or the dim down switch to decrease the intensity. The illumination components can be controlled directly (non-networked) or indirectly (networked) by a module.

Non-dimmable illumination is non-networked and provides backlighting to the window and door lock/unlock switches with the ignition ON or OFF while the accessory relay is energized.

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ILLUMINATION - SYSTEM OPERATION AND COMPONENT DESCRIPTION**

System Operation

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NETWORK MESSAGE CHART**

Module Network Input Messages - APIM, FCIM, FCDIM, ACM, DDM and PDM.

Broadcast Message	Originating Module	Message Purpose
Illumination Dimming Level	BCM	Used to command the illumination dimming level for networked modules and outputs that are hardwired to networked modules.

Networked Illumination Operation

The dimmable switches and components are illuminated when the parking lamps are on. The system-wide illumination dimming level is determined by the BCM. Based on the ambient light level input from the light sensor and the requested illumination dimming level input from the illumination dimmer switch, the BCM calculates the correct dimming level. The BCM sends the illumination dimming level message to the GWM on the HS-CAN1. The GWM then distributes the message to the FCIM, DDM and PDM on the MS-CAN and to the IPC, FCDIM, ACM and APIM on the HS-CAN3.

The receiving modules use the illumination dimming level message to determine the backlighting intensity of internal and external non-networked illumination sources. If a module does not receive the illumination dimming level message or the data received is deemed invalid, the module sets a DTC in continuous memory and defaults to full intensity.

If the IPC does not receive the dimming level or ambient light level network messages from the BCM for