

PDM 32

All names in this document have the type in capitals as the last characters in the name.

IntLightsDI is a Digital Input.

IntLightsO is an Output.

Interior lights

The door switches on a car are grounded with the doors open and floating when the door is shut.

On the PDM you can sense the doors using a digital input which is grounded when on and has a pull up resistor to bring the input to 12 v when it is not grounded.

The standard internal lights have a 3-way switch. Those positions are on, off and door. Some cars have the light come on and off gradually to help adjust your vision in night operation.

The switch should ground the input when the door is opened, ground the switch when required to be on and bring it to 12v when not required.

Soft start and stop of 5 seconds would have the light come on and go off gradually, and a 5 second delay after the door is closed helps if you need to find the keyhole.

The current requirement of an interior light is low and can be accommodated on the low outputs like this.

Channel Settings
✕

Name

Function

Sensor

Sampling Frequency

Logged

Active when signal is:

close to ground

use internal pull up 10kΩ

Momentary

use as button with pressure time dependent status

close to VBatt

Toggle

Multiposition

Not active

Active

Low Power Out 12 on Grey Connector (35 Pin Male) Pin: 10;

Name: Store values at Frequency

Settings | Related Channels

Continuous PWM Square Wave

Soft Start in a time of sec

Soft Stop in a time of sec

Maximum Value of Requested Load (up to 10.0 A) A

Over Current Latch-Off Time sec

Number of Retries

Retry Delay sec

Minimum Current A

Check Open Load in Off State

← Same condition for activation and deactivation

Set status to when following condition is verified for at least sec

Set status to when following condition is not verified for at least sec

For the interior lights to come on you without the display being on you do need to apply 12V external power to Digital Inputs 11 or 12.