



User Manual

DOOR STATUS INDICATOR

Part#:77-S276

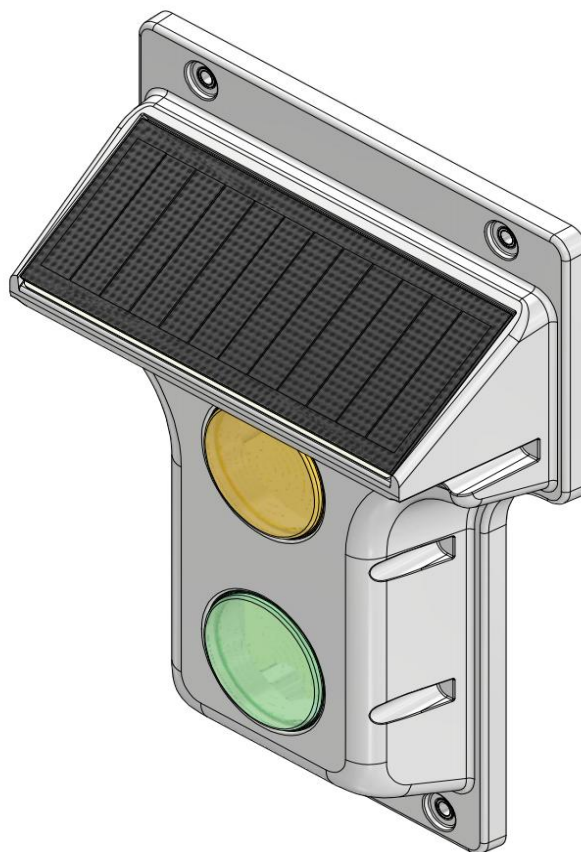




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1. INTRODUCTION

The DOOR STATUS INDICATOR is a state-of-the-art fleet management device designed specifically for heavy-duty commercial truck fleets operating in North America. This product is engineered to comply with FMVSS 101 standards mandated by the U.S. Department of Transportation (DOT) and NHTSA requirements for vehicles with a Gross Vehicle Weight Rating (GVWR) of 4,536 kg (10,000 lbs) or greater.

Installed in the vehicle cab, the DSI communicates wirelessly via Bluetooth Low Energy (BLE) with door sensors mounted on the cargo area, providing real-time door status monitoring without requiring the driver to leave the cab. The device also integrates multi-mode GNSS positioning for asset tracking and trajectory recording, making it an essential component for fleet safety compliance and asset management. This product is part of the Phillips Connect intelligent fleet management ecosystem and is compatible with Phillips SolarNet 8000 series and CargoVision systems.

2. GENERAL FEATURES

- Environmental Resistance: IP67
- Operational Temperature: -40°C to 80°C
- Solar Panel Max Power: 4.45V
- Battery Capacity: 12.8Ah
- Installation Time: ~15 minutes
- Connectivity: BLE 5.1/2.4 GHz (to PCT Gateway module)
- Image Quality: 720P
- Ideal Mounting Location: The DSI unit is designed for installation in the vehicle cab, preferably on the dashboard or in a location easily visible to the driver.
- Mounting Location Tolerance: +/-8" from roof, +/- 24" from rear door
- Flash: Yellow and green LED



3. SPECIFICATIONS

IMAGE PROPERTIES

Resolution: 1080*720

Field of View: 140°

Flash: 1 second illumination per LED (red and white)

GATEWAY DATA INTERFACE

Bluetooth 5.1

ELECTRICAL

Solar Panel MP (current @ max power):1.37W

Solar Panel VMP (voltage @ max power): 4.45V

Battery Type: Li-ion, Rechargeable

- Nominal Capacity: 12.8Ah
- Nominal Voltage: 3.65V(DC)

Battery Performance (from full charge to depletion)

- Up to 800 images
- Operates for up to 400 days while idling

ENVIRONMENTAL

Ingress Protection Rating (External to Trailer): IP67

Operating Temperature: -40°F to +167°F (-40°C to +75°C)

MECHANICAL

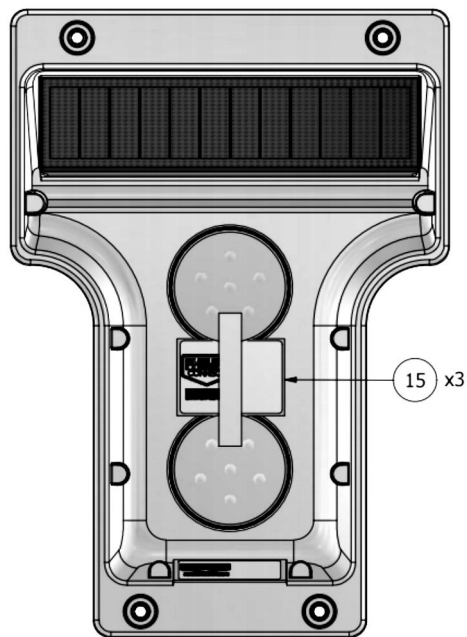
Dimensions: 10.6" (H) x 7.35" (W) x 2.85" (D) (269.2mm*186.6mm*72.5mm)

Weight: 1.53 lbs. (695.9g)

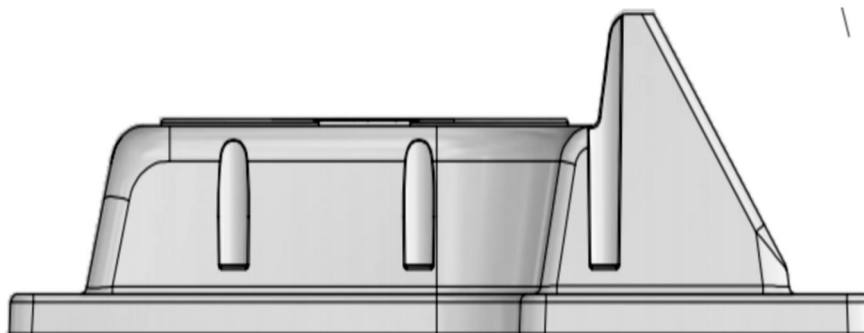
Mounting Location: The DSI unit is designed for installation in the vehicle cab, preferably on the dashboard or in a location easily visible to the driver.

4. MECHANICAL DETAILS

4.1 FRONT/REAR DIMENSIONS



4.2 SIDE DIMENSIONS





5. FCC WARNING STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.



6. IC WARNING STATEMENT

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Canadian ICES-003 and RSS-247.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

IC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.

Avertissement IC

Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

- (1) ce dispositif ne peut pas causer d'interférence.
- (2) ce dispositif doit accepter toute interférence, y compris l'interférence qui peut causer un fonctionnement indésirable du dispositif.

Selon la réglementation d'Industrie Canada, cet émetteur radio ne peut fonctionner qu'en utilisant une antenne type et gain maximum (ou inférieur) approuvés pour Industrie Canada par l'émetteur. Réduire brouillage radioélectrique potentiel avec d'autres utilisateurs, le type d'antenne et son gain doivent être choisis que la puissance isotrope rayonnée équivalente (e.i.r.p.) n'est pas supérieure à celle nécessaire pour communication réussie.

Cet appareil est conforme aux normes canadiennes ICES-003 et RSS-247.

Exposition aux radiations: Cet équipement est conforme à la réglementation canadienne sur les radiations.



limites d'exposition établies pour un environnement non contrôlé.

Déclaration d'exposition aux radiations IC

Les antennes utilisées pour cet émetteur doivent être installées de manière à assurer une distance de séparation d'au moins 20 cm au moins de toute personne et ne doivent pas être co-localisés pour fonctionner en conjonction avec autre antenne ou émetteur.

**Technology that
moves us forward**



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