

### **IMPROVES TERMINAL SAFETY AND PROCESS CONTROL**

#### Application

The Dixon Loading Arm Position Sensor System is engineered to communicate the position of a loading arm during tank truck loading operations. It enables the terminal to determine whether the loading arm is engaged on either side of the bay or whether it is in the loading or parked position.

#### Features

- Enhance operational safety and workflow efficiency by providing reliable position feedback
- The system transmits a signal indicating the current position of the loading arm
- When used as a parking sensor: If not in park, the sensor can signal to the terminal operating system to inhibit printing of the Bill of Lading (BOL), thereby reducing the risk of accidental drive-off incidents
- The sensor can be set to signal the terminal's operating system indicating the position of the arm to ensure it's loading and billing the correct lane

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#### System Components

- 1. Detection plate (adjustable for application-specific alignment)
- 2. Position sensor cover
- 3. Sensor mounting plate (relocatable for flexible installations)
- 4. Position sensor
- 5. Junction box
- 6. Conduit

#### **Design Information Required**

To configure the system appropriately, the following details are required:

- Type of loading arm (A-Frame, Top Load, Unsupported Boom, Supported Boom, or Horizontal)
- Arm size specifications
- · Selector sensor purpose and preferred location (drawings are highly recommended for clarity)

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#### **Electrical Specifications**

- 9170 Series Ex i Switching Repeater
- Min. output load condition: 12 V/0.1 mA
- Max. output DC load condition: 250 V/2 A
- Max. output AC load condition: 250 V/4 A
- Output switching capacity: 50 W/1000 VA

## Loading Arm Position Sensor Application Information





Multi-lane



Parked

Loading

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