



# PIVOT Sensor R2 IS



## Specifications

Wireless sensor to report the load state of a railcar by monitoring static suspension sag.

### Physical

#### Dimensions

169 mm x 94mm x 43 mm  
(6.65" x 3.7" x 1.69")

#### Weight

407g

### Sensors

Sensor hub including 3-Axis  
Accelerometer and Gyroscope  
80 GHZ FMCW RADAR

### Battery

Built-In Long-Lasting Lithium Thionyl  
Chloride Battery:

- 68 Wh capacity (19 Ah @ 3.6V)
- Up to 5 years of battery life\*

*\* Battery life estimates are based on testing during moderate asset usage. Data is collected and sent to BlackBerry Radar H2M IS when an event is triggered. If the device is unable to send the data when an event, the device will store the information until the next event.*

### Communication

SubGHz short range connectivity  
915MHz, 868MHz and 2.4 GHz with  
a BlackBerry proprietary protocol

### Environmental

Operating Temperature Range:

- 40°C to 85°C (-40°F to 185°F)
- Operational Altitude - 500 to 15,000 feet

### Software, Updates & Security

BlackBerry Secure IoT Platform  
Client:

- Over-the-Air (OTA) Software Updates
- Secure Boot and Transmission

### Certifications

#### MIL STD-810G:

Drop, shock, vibration, salt fog,  
high altitude, solar, UV

**SAE J1455:** Water spray

**IP69k, IEC 60529:** Dust/water ingress

**IP67, EN 60950-1:2006:** Impact

FCC, IC

ISO 9001

RoHs

REACH

WEEE

CA prop 65

#### ATEX & IECx:

IEC 60079-0, IEC 60079-11

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

Ex II 1GD

#### HazLoc:

ANSI/UL 60079-0, 60079-11, UL 913,

ANSI/ISA-12.12.01-2000

Class I, Zone 0, AEx ia IIC T4 Ga

Class II, Zone 20, AEx ia IIIC T135°C Da

Class I, Division 1, Groups A, B, C, D; T4

Class I, Division 2, Groups A, B, C, D; T4

Class II, Division 1, Groups E, F, G; T4

CAN/ CSA C22.2 No. 60079-0,

CAN/CSA C22.2 No. 60079-11

Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da

**Quality:** ISO 9001