### **LR410 Laser Receiver**

## **Specifications**



#### **General Description**

The Trimble<sup>®</sup> LR410 Laser Receiver is designed to be used with either the new GCS 300-600 Grade Control System or the Prinz Albert systems as a replacement for the RS2S laser receiver. Engineered for use in harsh environments, the LR410 is 100% weatherproof and features 360° laser detection. Integrated reference LEDs, located in the corner of each of the four laser receiving windows, show the laser strike location from the center of the receiver, power, and error status, for fast visual receiver status. An industry-standard CAN (SAE J1939) interface makes system integration easy.

**Standard Features** 

Full 360° laser detection field of view
231mm (9.1") detection window
Linear detection position to within 1.5 mm (0.06")
100% sealed and weatherproof enclosure
Sunlight viewable LEDs indicate set up, power and errors
Auto-dim LED display
Non-rotation clamp
Selectable on-grade accuracy from the CB420 control box
Industry-standard CAN (SAE J1939) interface

System and Component Compatibility



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Physical	Charac	teristics
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Size: Length: 292 mm (11.5") Width: 168 mm (6.62") 213 mm (8.38") including clamp Heiaht: Weight: <2.8 kg (6.3 lb) Mounting holes: 9.5 mm (0.374") diameter (4 holes) Fits round masts 1.5" to 1.93" OD or square masts 1.5" to 1.75" OD Mounting clamp:

#### **Environmental Characteristics**

Temperature: -40°C to +71°C (-40°F to +160°F) Operating: -55°C to +85°C (-67°F to +185°F) Storage: Humidity: 100% fully sealed, weatherproof Sealing: Environmentally sealed to 34.48 kPA (5 psi) IP68 EMC: Emissions: Compliant with CE (ISO 13755) Susceptibility: Compliant with CE (ISO 13766)

#### **Technical Specifications**

Electrical Input Voltage: Current Draw (maximum): Current Draw (typical): **Operating Current:** Maximum Detection Range Control Interface: **Reverse Voltage Protection:** Load Dump Protected: Short Circuit Protected: Laser Transmitter Speed: Laser Beam Acceptance Angle: LED Brightness:

#### **Control Dead Bands**

On Grade

#### **Characteristic – Laser Receiver**

Laser reception angle range - azimuth:

#### **Connector:**

Specifications subject to change without notice.

9 to 30 VDC

500mA maximum @12 VDC

CAN (SAE J1939) Yes, to -36 VDC Yes, compliant to ISO 7637-1 and 7637 specific

> 270 to 1320 RPM 360° Auto-dimmed

GCS 300-600 From Center / P.A. System (7 Channel) / P.A. System (5 Channel) Adjustable from Operator Interface / ± 4.5 mm (±0.015') / ± 4.5 mm (±0.015')

360°

MIL-C-5015

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