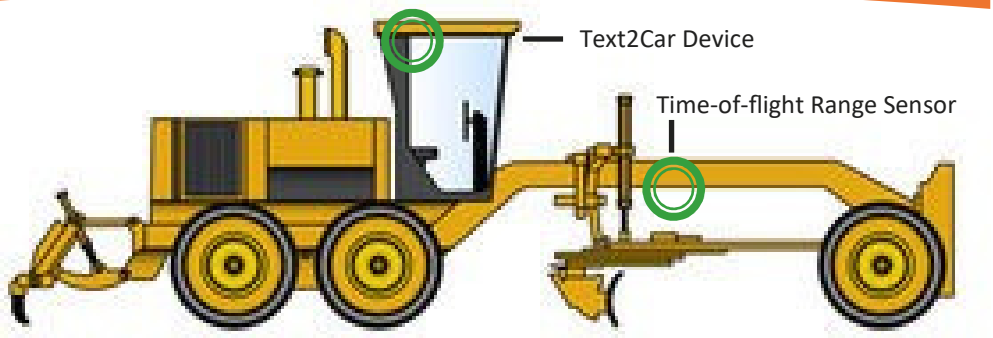
# INSTALLATION GUIDE

## ROAD MAINTENANCE FLEET MANAGEMENT
## GRADER PACKAGE

## 1 Find Mounting Location

- No Metal obstructions
- Mount as high as possible with a direct view to the horizon.
- Ensure device is clear of any moving parts.




**Mount device horizontally, flat side down, without any metal obstructions.**

## 2 F-XB Device Connections

- 12 or 24 volt can be used, however voltage must be consistent throughout. If 24 volt is used on one connection it must be used for all other connections requiring voltage.
- Using the provided L-Bracket mount sensor above blade disk.
- Run Sensor cable along spine into the cab and connect to the 4-pin connector.

**Pin-Out**

*Compulsory Connections*

F-XB

| | |
|---|---|
| White | 12v IGN On/0v IGN Off |
| Red | Constant 12v (+) |
| Black | Ground (-) |
| 4-Pin Connector *(Female Din)* | Sensor Cable *(Male Din)* |

*Optional Feature Connections*

| | |
|---|---|
| 1-Bit Bus White/Blue | Temp Probe or Key ID Reader |
| Brown | Hazard Buzzer *(Black Wire)* |
| Orange | Front Blade or SOS Button |

**All Connections Must Be Soldered**

**DO NOT USE CLIPS OR WARRANTY VOID**

## 3 Mount Time-of-Flight Sensor & Adjust Blade Threshold

See back side of page for detailed instructions & optional feature connections

**Turn Page Over**

## 3 Check Signal

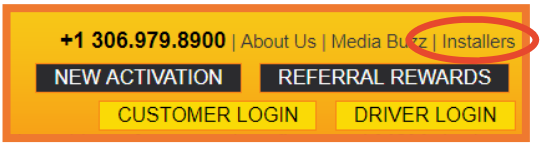
- Confirm green GPS lock & amber cellular network lights are solid
- Vehicle must be outdoors to activate GPS signal

**Note: Cellular & GPS Lock may take up to several hours**

## 4 Test Cycle

- Turn On Ignition
- Raise blade above the threshold
- Wait 30 Seconds
- Lower the blade
- Turn off Ignition
- Confirm all events were reported

*Top-Right Corner of Text2Car.com*




## 5 Secure Device

- Secure the device to the chosen mounting location using mounting bolts.

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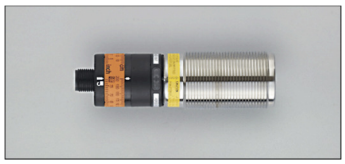
# RMFM Accessory Installation Guide

## Time-of-Flight Range Sensor



### Mounting Location

As shown in this image, the time-of-flight range sensor should be mounted with the bracket provided. The time-of-flight range sensor should be aimed at a flat surface that changes elevation with the grader's blade. Additional mounting holes may need to be drilled in the provided bracket to accommodate mounting, using existing bolts on the graders I-beam. Use wire ties to secure harness along grader spine.

### Setting the Blade Height Threshold

Once installed, determine the threshold height. Start with the blade as high up as possible. Begin lowering the blade until considered "down" or "in use". Avoid "feathering" by raising the blade one or two inches. *(If you cannot determine the blade threshold, lower the blade 6 inches from max height.)*

At this point adjust the sensor by rotating the top black dial to the "unlock" position. Starting from 0, rotate the lower orange dial until the amber light on the device turns on. Rotate the top black dial to the "lock" position.

*Note: When the light is **ON**, the blade is **UP**. When the light is **OFF**, the blade is **DOWN**.*

*Regular cleaning of sensor lens and reflecting surface required for continued accuracy.*

# Optional Accessory Connections

## In-Cab Hazard Buzzer

### Wiring

**Red**– Constant 12v
**Black** – T2C Brown (output)

## SOS Button

### Wiring

**Black** – Ground
**Yellow**— F-XB Orange (input)
**Purple** — Not Used
**White** — Not Used

## Temp Probe

| Probe | Text2Car | Function |
|---|---|---|
| White | Blue/White | 1-Bit Bus Data |
| Black + Blue | Black | Ground |
| Red | N/A | Floating |

## Key ID Reader

| Probe | Text2Car | Function |
|---|---|---|
| Grey | Blue/White | 1-Bit Bus Data |
| Black | Black | Ground |