# ANGLE LIMIT SENSOR FOR EOT CRANE


MAKE IN INDIA

## Introduction

The rope angle limit sensor with 2 relay outputs prevents over head cranes from performing the load lifting function with an angle greater than the adjustable limit value on the two axes in order to increase the safety of the crane and operation.

## Features :-

- Wireless data transmission between sensor and indicator.
- 2 axis angle measurement
- 2 axis digital angle indicator
- 2 relay outputs - 10A, 230VAC, Adjustable relay
- Angle limit control with adjustable cut off values
- Thanks to its ergonomic design, it can be mounted on the rope together with the rope type load cell
- With the offset button, any angle value can be set as the starting angle

## Technical Data :-

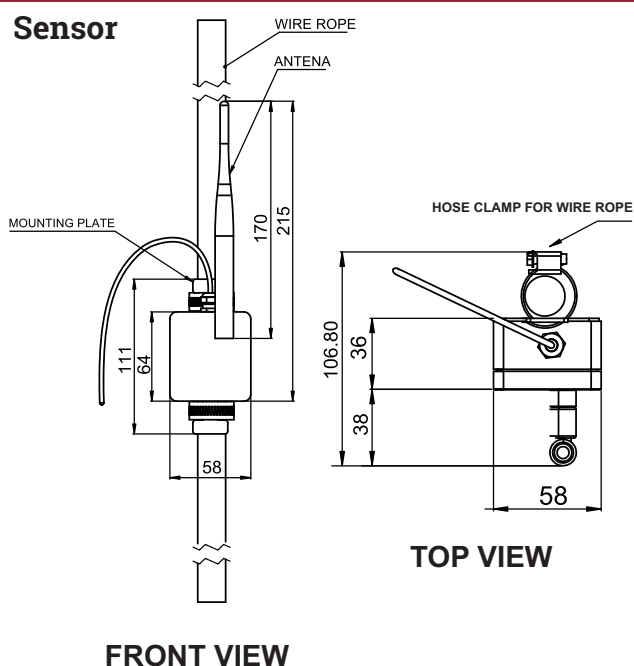| | |
|---|---|
| Supply Voltage (Indicator) | (90-265 VAC) |
| Supply Voltage (Sensor) | 5VDC |
| Power Used (max) | 1.5 WATT |
| Main Body Type | ABS |
| Operating Temperature | -20 +60 °C |
| Storage Temperature | -30 + 60°C |
| Dimension (L x W x H) (Indicator) | 187 x 186 x 82 mm |
| Dimension (L x W x H) (Sensor) | 64 x 58 x 36 mm |
| Protection Class | IP 65 |
| Weight (Sensor/Indicator) | 300 grm/ 1 Kg |
| Display (Indicator) | 1.3 inch, 128 x 64 pixel oled Display |
| Relays (Indicator) | 10A, 230VAC, Adjustable cutoff |

## Installation

- Mount the angle sensor device on the fixed end of wire rope of the crane.
- Connect the **+5V** & **GND** cable of the angle sensor to the **+5V** & **GND** terminals of the angle limit indicator.
- Connect the relay wires in series to the lifting motion contactor.
- Connect the power supply to the indicator.
- On stable angle of the wire rope, press the **CAL** button to set zero value of the angles.
- Set the relay cutoff points in the following manner :-

    1) Press the **INC** & **SCROLL** buttons simultaneous by.

    2) Press the **SCROLL** button to scroll between relay 1 & 2.

    3) Press the **INC** button to modify the relay cut off value.

    4) Press the **SET** button to save the cutoff value set.

## WIRELESS



## Dimension:

### Sensor



**FRONT VIEW**

**TOP VIEW**

### Indicator