

# Laser Anti-Collision Device



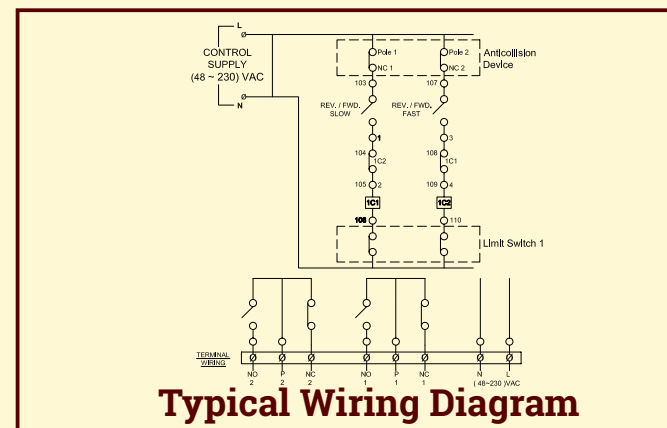
## Features

- Laser Distance measuring based anti-collision system
- Micro-Controller Based Circuit for taking digital inputs for easy range setting and gives an accurate cut-off range.
- 2 Relays for Slow/Stop.
- Works in Dusty environment
- No reflector required for range detection
- High Cutoff Accuracy
- Visible laser light for correct mounting
- Robust Design for Industrial Environment



## Technical Specification

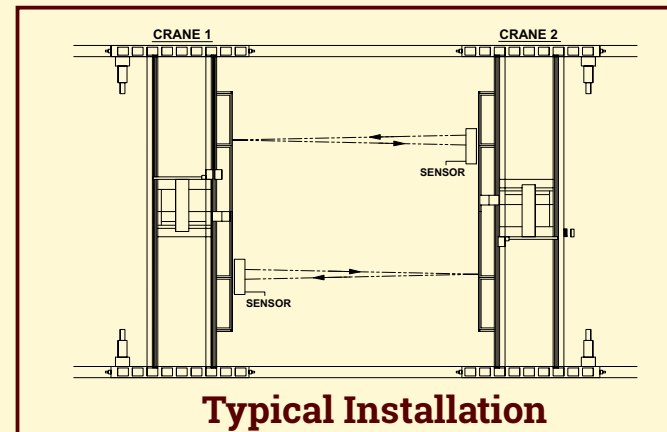
Micro Controller Based Laser Anti-Collision System	
Supply Voltage	(48 ~ 230) VAC/24VDC
Sensing Range (adjustable)	(0.5 - 8) Meters
No. Of Output/ Relay	Upto 2 Potential Free Relays Rated 5Amps @ 230 VAC/24VDC
Set Point Adjustment	Push Button & Led Display
Housing Material	Polycarbonate
Ingress Protection	IP-65 IS/IEC 60529 (2001)
Operating Temperature	Upto 70°C
Ambient Temperature	50°C
Terminal Block	Screw Terminal (16-20AWG)



Typical Wiring Diagram

## Installation Procedure

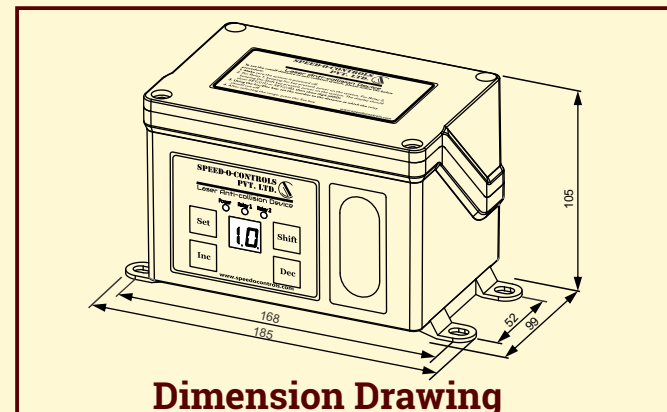
1. Mount the Transmitter/Emitter(Control Unit) on one crane as shown in installation scheme.
2. Connect the power supply as per the connection diagram.
3. Start the System and view the laser point at the other crane. The distance between the sensor and the crane should be shown on the screen.
4. Similarly follow the procedure to mount the control unit for the other crane.
5. Connect the relay output as shown in the figure. The Anti-collision device works like an LT limit switch.



Typical Installation

## Range Adjustment Settings

1. Power ON the system.
2. Press the INC. key 6 times.
3. The display shall first show R1 (Relay 1) followed by the cut off value.
4. Set the cut off value using INC./DEC. key.
5. Press the SHIFT key to validate R1.
6. The display shall show R2 (Relay 2) followed by the cut off value.
7. Set the cut off value using INC./DEC. key.
8. Press the SET key to validate R2.
9. Restart the system.



Dimension Drawing

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**CRANE CONTROL GEAR V5**