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 Specifications:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro Controller Based Laser Anticollision System</td>
<td>Supply Voltage</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Upto 70°C</td>
</tr>
<tr>
<td>Output</td>
<td>Upto 2 Potential free relays</td>
</tr>
<tr>
<td>Sensing Distance (adjustable)</td>
<td>1-10 meters</td>
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</tbody>
</table>

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.

Range Adjustment Setting:
1. Make sure the system is powered off.
2. For Relay 1, keeping Inc key pressed, power on the system. For Relay 2, keeping the Shift key pressed, power on the system. The display should show r1 or r2, then show digit (00).
3. Using the Inc. key, set the number to the distance at which the relay should cut-off.
4. After selecting the range, press the Set key.
5. Restart the system.