

# Anticollision Device

For Cranes

## ANTICOLLISION DEVICE FOR CRANES

The anticollision System model ACD-201 is safety device to avoid the collision of two electric overhead traveling cranes working on the same rails. The system works on the principle of retro-reflective infrared waves. It consists of an emitter and sensor module and a special reflector. The emitter emits the infrared waves in the direction of the reflector. The reflector reflects these infrared waves back to the sensor. The sensor senses the presence of these reflected infrared waves and activates an alarm signal and stops/reduces the speed of the crane. Thus if the two cranes are away from each other then the reflected waves will not reach the sensor and the cranes operate normally. The sensing distance is adjustable between 3 to 10 meters. The anticollision system is specially designed for the crane application and is suitable for the continuous duty.

Each set consists of an Emitter/sensor module and a Reflector. For one pair of cranes two sets of anticollision systems are required.

The typical arrangement for the installation is shown in the adjacent figure.

### MODEL: ACD-201

#### Specification

##### General

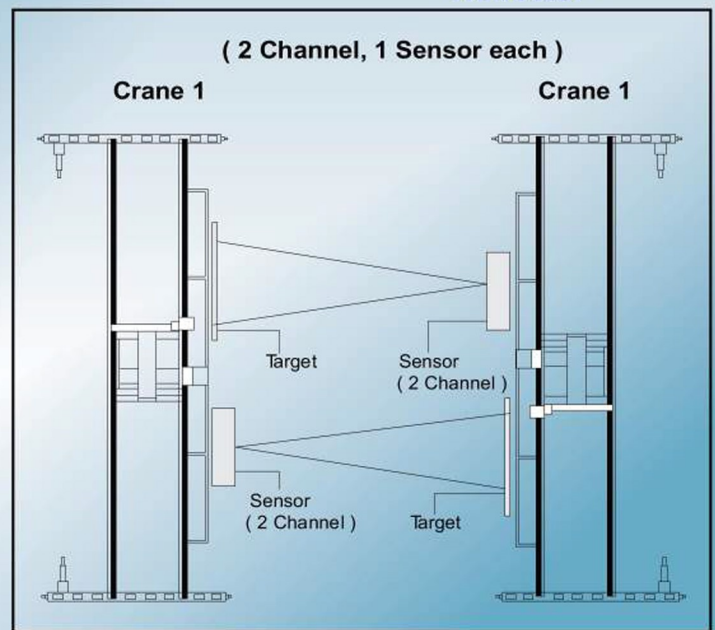
Supply Voltage	: 110/220 v AC
Output contact rating	: 5A / 10A at 110 v AC
Operating temperature	: Up to 70°C
Sensitivity adjustment	: 15 % to 100%
Maximum sensing distance	: 10 meters

### INSTALLATION PROCEDURE

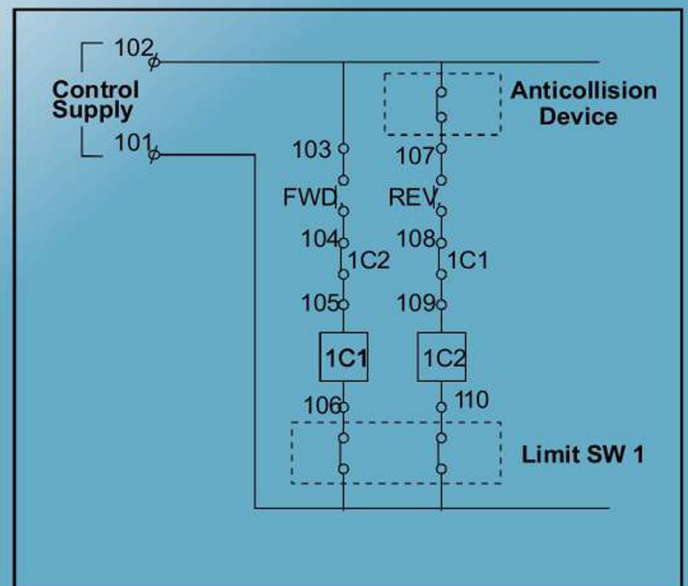
1. Mount the Transmitter/EMitter unit (control unit) on one crane as shown in the figure.
2. Connect power supply as shown in the connection diagram.
3. Press the laser switch and mark the place for the reflector. mount the reflector. Mount the reflector on the second crane.
4. Similarly follow the procedure to mount the control unit and reflector for other crane.
5. Connect the relay contact as shown in the figure. The anticollision device works like a LT limit switch.



Reflector



Cranes with Anti-collision System



Typical arrangement for LT Drive with anticollision Device

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