

ANTI-COLLISION



CMK ELECTRO POWER PVT LTD.
(An ISO 9001:2015 Certified Company)



Chemical Industries



Crane Industries



Paper Industries



Automobile Industries



Power Plant

Manufacturer of EOT Crane Control Equipments

CMK ELECTRO POWER PVT LTD.



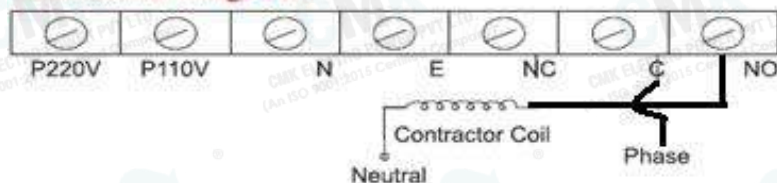
The Anti collision system of CMK ELECTROPOWER PVT LTD is a safety device to avoid to collision of two electric overhead travelling cranes working on the same rails.

For one pair of cranes one sets of anti -collision systems are required (see above image)

TERMINAL STRIP CONNECTIONS :

- | | | | |
|--|----------------------------|--|-----------------------------------|
| 1. P - Phase 220V AC | } CAUTION : Connect | | |
| 2. P - Phase 110V AC | | } 110V / 220V AC at appropriate | |
| 3. N - Neutral | | | } terminals. Never connect |
| 4. E - Earth | | | |
| terminal No. 2 | | | |
| 5. NC - OUTPUT - Normally closed contact | | | |
| 6. C - OUTPUT - Common | | | |
| 7. NO - OUTPUT - Normally open contact | | | |

Connection Diagram :-



Each set consists of an Emitter/sensor module and a Reflector.

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 emit s 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 activities an alarm signal and stops/reduces the speed of the cranes.

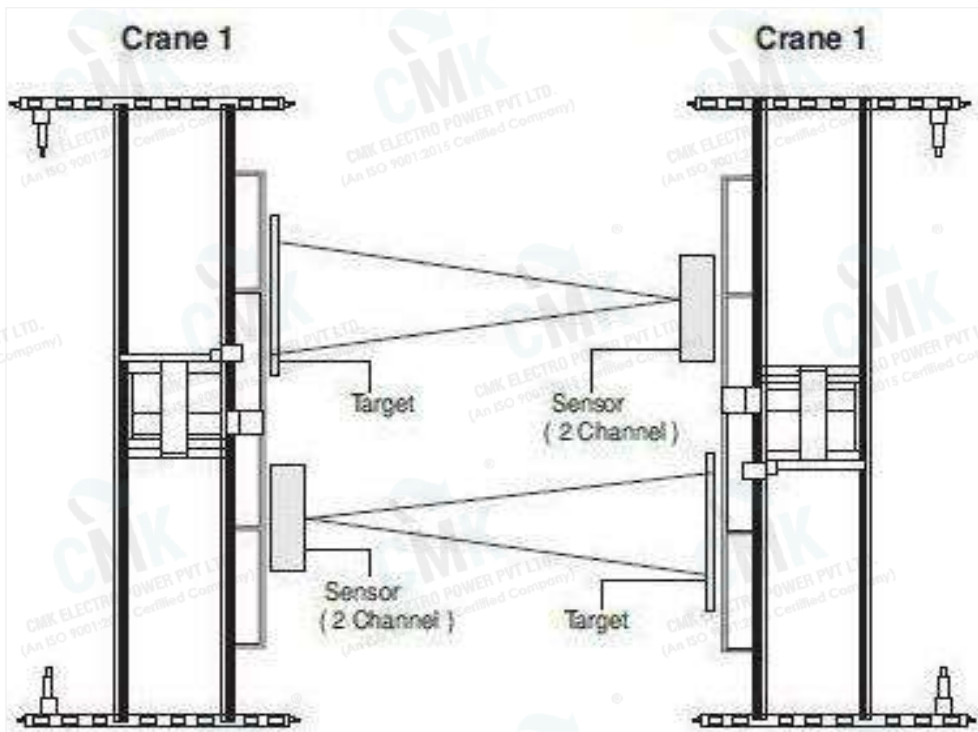
Thus if the two cranes are away from each other then the reflected waves will not reach

the sensor and the cranes operate normally. The sensing distance is adjustable between 3 to 10 meters. The anti collision system is specially designed for the crane application and is suitable for the continuous duty

CMK ELECTRO POWER PVT LTD.

➤ Installation Procedure:

- 1) Mount the Transmitter/Emitter Unit (control Unit) on one crane as Shown in the Below 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 on the Second Crane
- 4) Similarly follow the procedure to mount the control unit and Reflector for the other crane.
- 5) Connect the relay contact as shown in the figure. the anti collision device work like LT limit switch



RANGE ADJUSTMENT :

1. When the two cranes are out of the range of the anti collision device the relay contact while on LED will remain ON.
2. Keep the Required Distance between the two cranes at which the cranes will stop Rotate the Potentiometer to adjust the Range.
3. Clockwise Rotation of this Pot increases the range whereas anticlockwise rotation Decreases it.

Note: For Effective range regularly clean the reflector and front acrylic cover of control unit.



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