

Infrared Anti-collision Device

Applications:

The infrared anti-collision device works based on the emission and reflection principle of infrared beams:

Emission and reception: The device has a built-in infrared transmitter and receiver. The transmitter continuously emits infrared beams and the receiver monitors the reflected signal.

Obstacle detection: When the beam is blocked or reflected by an obstacle, the sensor measures the distance of the obstacle by calculating the round-trip time of the beam or the degree of signal attenuation.

Intelligent response: When a dangerous distance is detected, the device can trigger an audible and visual alarm, decelerate and brake, or directly cut off the power supply to avoid collision.

Features:

Real-time monitoring + active braking can reduce the collision accident rate by more than 80% (measured data from a certain port).

Dual protection of sound and light warning and forced shutdown reduces the risk of human operation errors.

