

# Infrared anti-collision device

## ● Product Introduction

The anti-collision device is an anti-collision system for cranes, quay cranes, rail cranes, gantry cranes and other lifting equipment running on rails. The anti-collision device is used to prevent the lifting equipment from colliding during operation and provide protection for safe operation.

## ● Product Features

- Infrared sensor, maximum detection distance 20 meters.
- One set of sensors on the left and right, can detect both directions.
- Voice alarm, adjustable volume.
- Laser focus, high precision.
- Highly integrated design, flexible installation, reliable quality.
- With self-test function.

The principle of optical wave ranging can basically be attributed to measuring the time required for light to travel back and forth to the target, and then calculating the distance  $D=ct/2$  through the speed of light  $c = 299792458\text{m/s}$  (about 300,000 kilometers/second)  
 $D$ --the distance between the measuring stations A and B;  
 $c$ --the speed of light propagation in the atmosphere;  
 $t$ --the time required for light to travel back and forth between A and B once



## ● Basic Parameter

Working voltage	AC110V/AC200-240V (special voltage can be customized)	Power frequency	50Hz~60Hz
Alarm volume	80dB	Response time	0.5s
Detection distance	Level I: 5-20m adjustable	power	AE401A: $\leq 10\text{W}$
	Level II: 3-12m adjustable		AE401C: $\leq 20\text{W}$
Output contact	AE401A:0.5A 125VAC/ 1A 30VDC		
Load (resistive)	AE401C:12A 125VAC/ 7A 250VAC/ 7A 30VDC		
Working temperature	-30°C ~ +70°C	Protection level	AE401A:IP65
			AE401C:Indoor
Working humidity	10% ~ 95% (No condensation)	Installation method	Screw-on installation