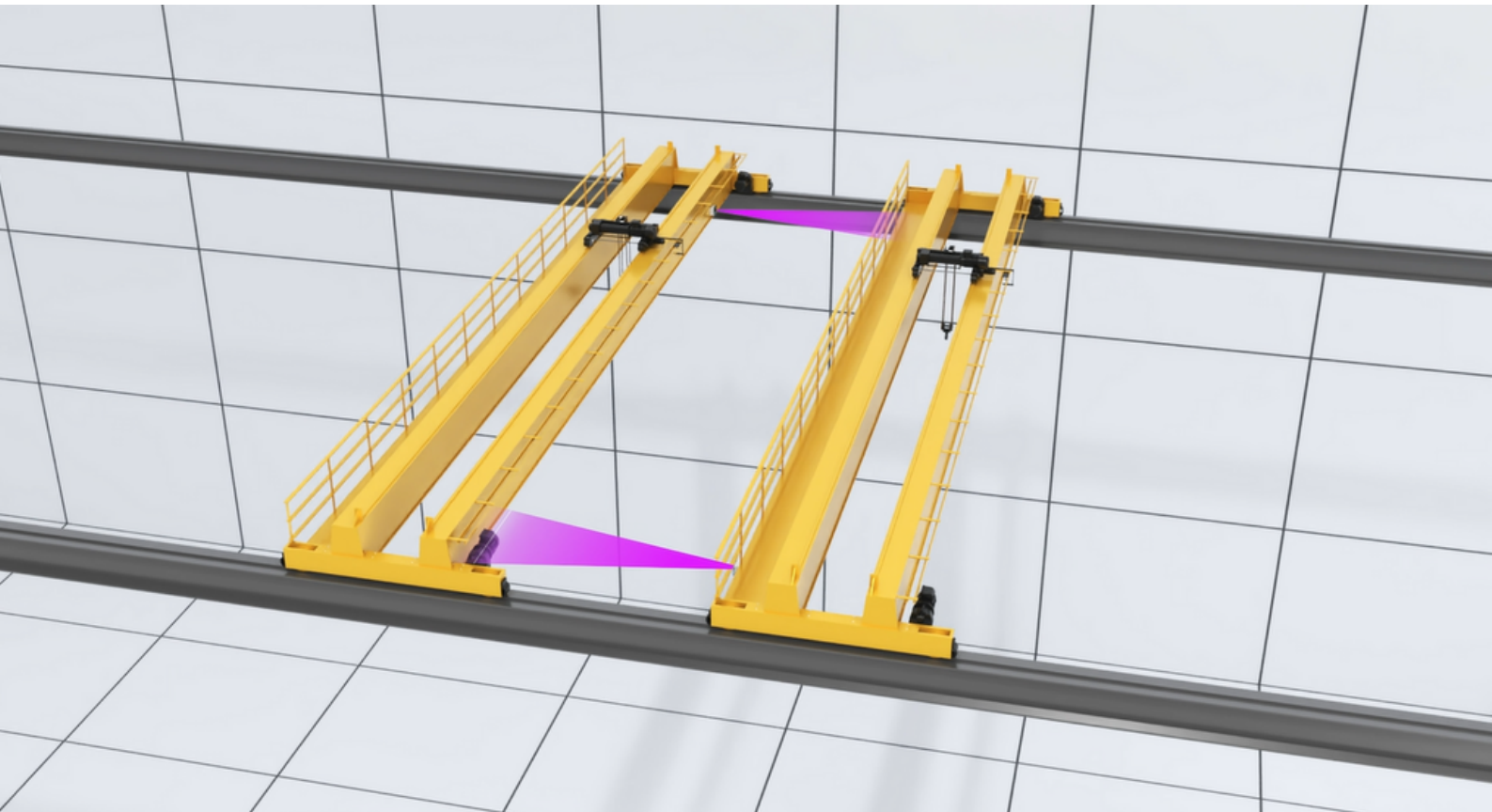


# GT1 Systems

## Next Generation Collision Avoidance Solutions for Overhead Crane Applications

# LAC



**LIDAR sensor technology**

**Reflectors not required**

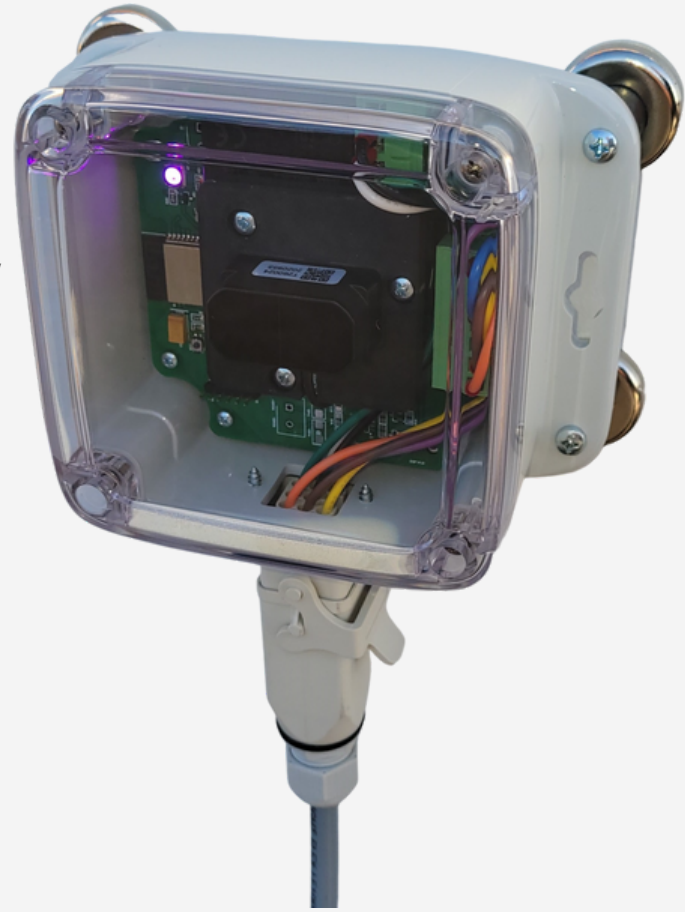
**WiFi programmable**

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# Reflector-less Smart Collision Avoidance Systems

## LAC

- P/N **LAC-12** - 12 meter range  
P/N **LAC-30** - 30 meter range
- Two 240/120V relay outputs for slow down and stop
- One 120V input for bypass
- IP68 rated enclosure
- 15 foot or 60 foot standard pigtail length with quick disconnect
- 3° field of view
- Optional magnet mounts



**\*Not recommended for foggy, smokey, hazy environments**

The LIDAR based LAC detects objects rather than relying on a reflective target.

- Anything can be the target - opposite crane girder, festoon loops, end truck, wall, etc.
- No target to mount
- No target to clean

Programmable from web app on any wifi enabled mobile device.

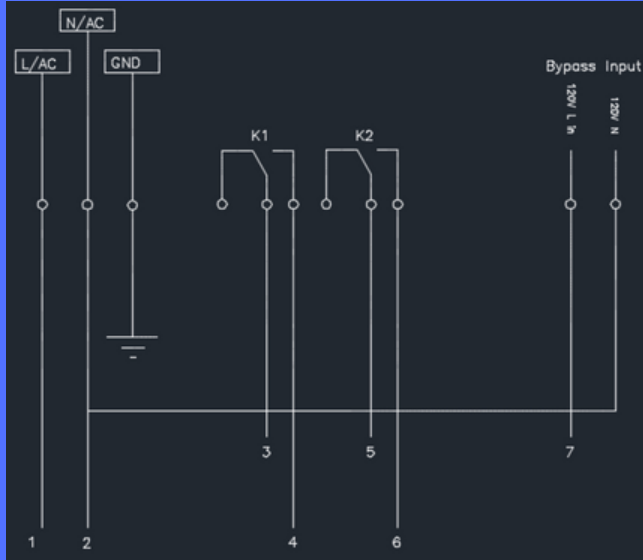
- Configurable from the ground
- No need to board the crane to set or adjust parameters
- Adjustable bypass timer

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# Reflector-less Smart Collision Avoidance Systems

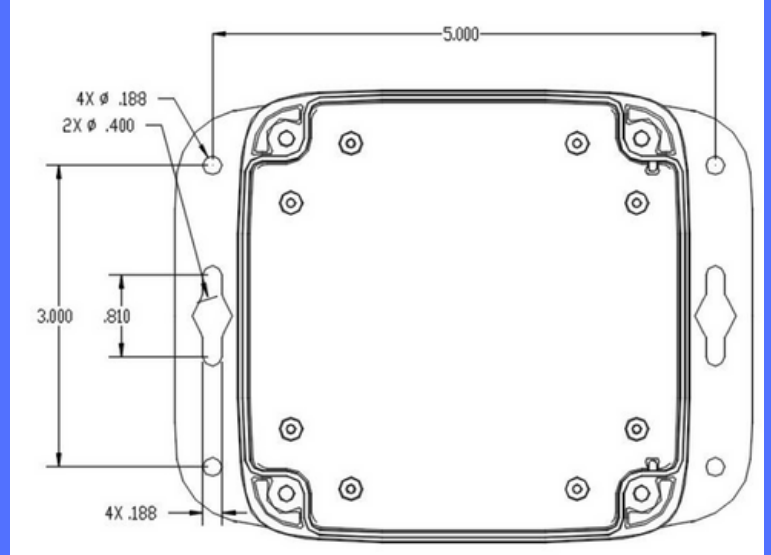
## LAC

### Wiring Information



- Wire 1 - Line
- Wire 2 - Neutral
- Wire 3 - Motion voltage common (stop)
- Wire 4 - Motion voltage output (stop)
- Wire 5 - Motion voltage common (slow)
- Wire 6 - Motion voltage output (slow)
- Wire 7 - Bypass 120V line

### Mounting Hole Dimensions



### Optional Magnet Mounts



### Examples of Web App Interface

**HOME CONFIG WIFI BYPASS RELAYS**

Enter the value for each Limit setpoint and submit.

STOP:

SLOW:

Units

**HOME CONFIG WIFI BYPASS RELAYS**

Distance:  FT

WebSocket: WS Closed

STOP:  Relay 1:

SLOW:  Relay 2:



# Reflector-less Smart Collision Avoidance Systems

## LAC

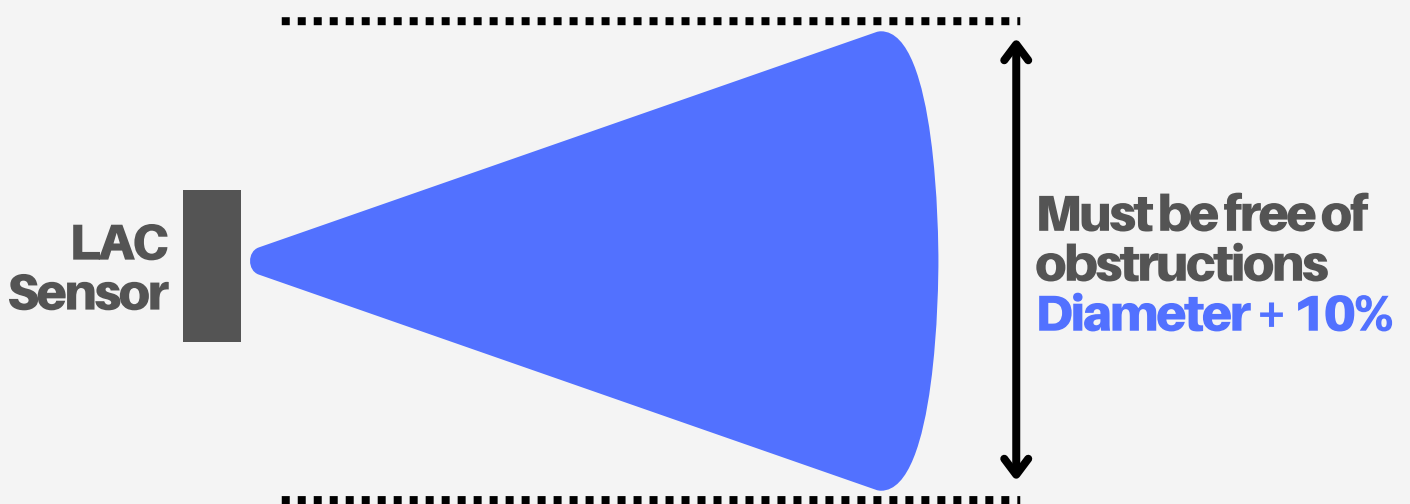
To avoid unintended sensor trips, a clear field of view to the target is required. Consult the chart below for the maximum spot diameter at a given distance when calculating necessary clearance from potential obstructions.

### LAC-12

Distance (meters)	1	2	3	4	5	6	7	8	9	10	11	12
Diameter (mm)	60	120	180	240	300	360	420	480	540	600	660	720

### LAC-30

Distance (meters)	1	2	3	5	7	10	20	30
Diameter (mm)	50	100	160	260	370	520	1050	1560



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