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 NO/NC 240/120V 5A relay outputs for slow down and stop
- One 120V input for bypass or programmable bypass via web app
- NEMA 4X IP68 rated enclosure
- Temperature range -10C to +60C
- 15, 30, and 60 foot standard pigtail length with quick disconnect
- 3° field of view
- Optional magnet mounts
- Can be used on 230VDC cranes when supplied with GT1 intermediate relay panel

***Not recommended for foggy, smokey, hazy or outdoor 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
- Independent of building WiFi or cellular signal

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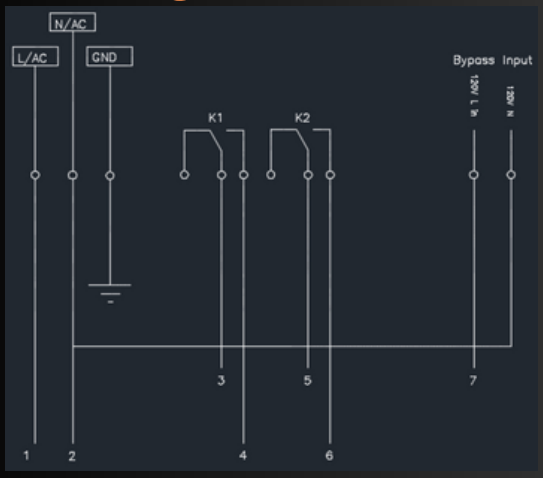
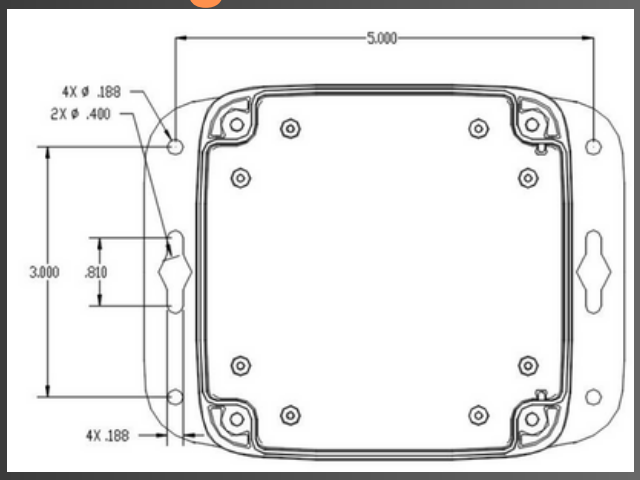
Wiring Information

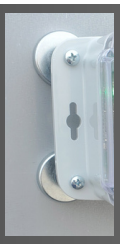


Wire 1 - Line
Wire 2 - Neutral
Wire 3 - Motion voltage common (stop)
Wire 4 - Motion voltage output (stop)
Wire 5 - Motion voltage common (slow)
Wire 6 - Motion voltage output (slow)
Wire 7 - Bypass 120V line

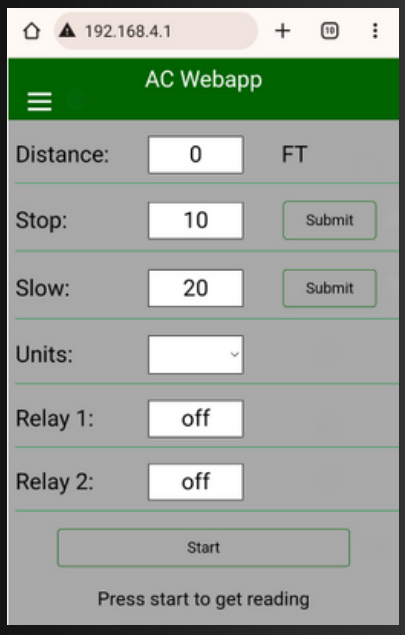
Mounting Hole Dimensions



Optional Magnet Mounts



Examples of Web App Interface



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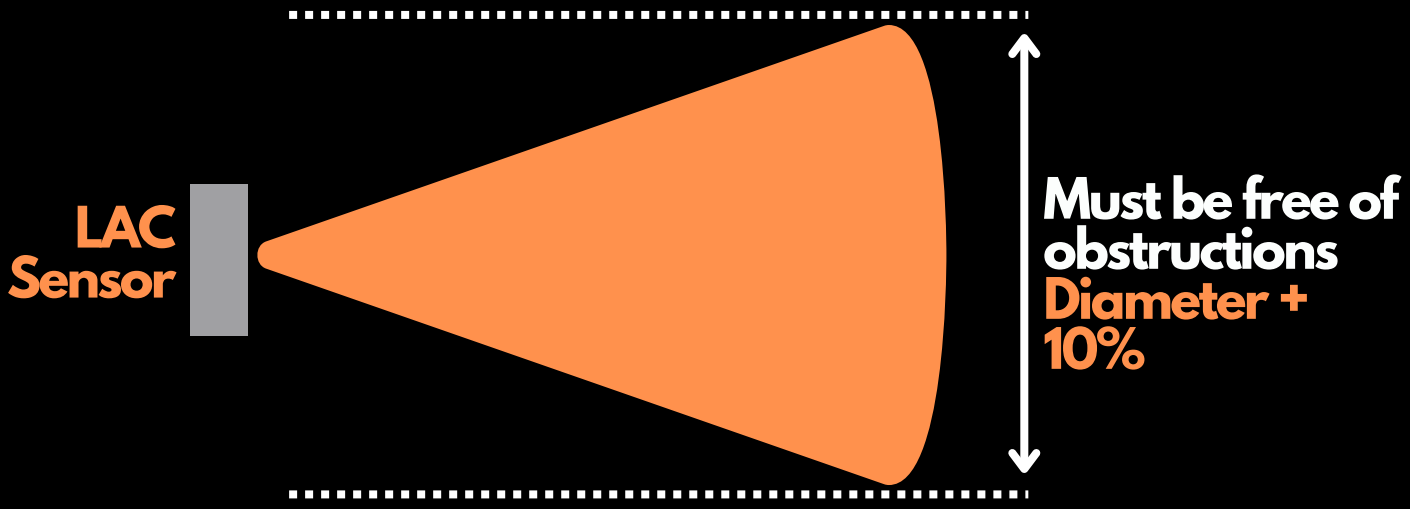
To avoid unintended sensor trips, a clear field of view to the target is required. Consult the chart below for the maximum spot diameter at a given distance when calculating necessary clearance from potential obstructions.

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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