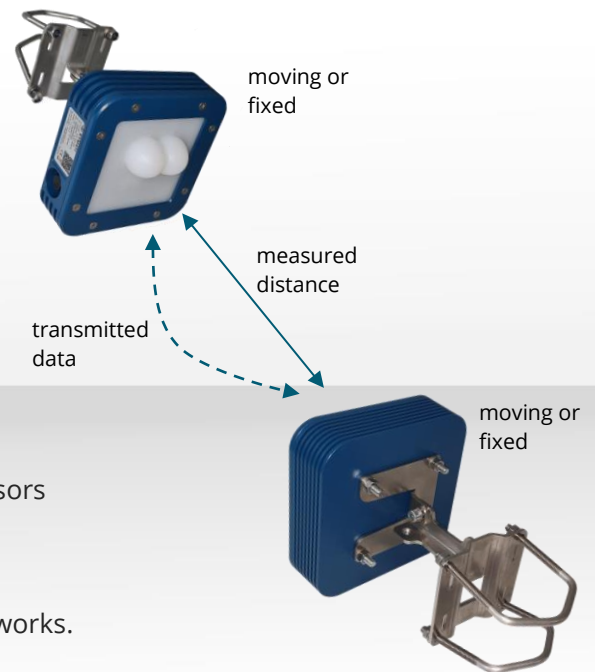


# DATA SHEET

## KY-LOC 1D.01.01



- Precise and reliable distance measurement between two Radar sensors to activate warning thresholds and measure distances.
- Maintenance-free indoor and outdoor operation.
- RF based, no interference with WiFi and mobile communication networks.

## COLLISION AVOIDANCE ASSISTANCE SENSOR

### TECHNICAL DATA: KY-LOC 1D.01.01

|  |  |
|--|--|
| Anti-collision detection range <sup>1)</sup> ;         | 2m ≤ x ≤ 500 m                                 |
| Distance measurement range                             | 2m ≤ x ≤ 40 m                                  |
| Repeat accuracy of measurement <sup>1)</sup>           | typ. ± 15 mm                                   |
| Absolute distance accuracy <sup>1)</sup>               | typ. ± 50 mm                                   |
| Opening Angle horizontal/vertical                      | ± 7°   |
| Update rate  | up to 20 Hz (single side data connection)      |
| User data transfer parallel to measurement             | up to 1 kbit/s                                 |
| Protection   | IP 66, IP66k and IP68 (cntd. plugs, 24h@1m)    |
| Operating temperature                                  | -30 ... +75 °C; -22 ... 167 F                  |
| Weight, dimensions LxWxD                               | 1060 g; 138x138x43mm (without support bracket) |
| Voltage, power consumption (M12, 5 pin, male, A-coded) | 9 ... 36 V DC or PoE (802.3af), 5 W            |
| Frequency band   | 61 GHz (ISM band)                              |
| Interface (M12, 8 pin, female, X-coded)                | Ethernet (100Base-Tx), PoE (802.3af), RS485    |
| Radio compliance                                       | FCC, IC  |

<sup>1)</sup> Values may vary with radio regulations applicable

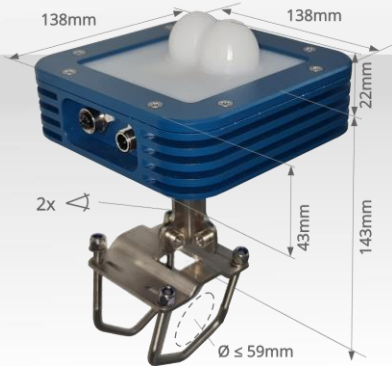
### KY-LOC 1D.01.01- Quick Facts

- Cost effective collision warning devices for any type of moving equipment (e.g., cranes, transfer cars).
- To be used as assistance system, not as single safety device if personal injuries could be possible.
- No precise horizontal or vertical alignment required.
- Parallel wireless user data transmission without the use of WiFi.
- Highly reliable under adverse weather conditions, dust, and dirt.
- User-defined preset distance warnings.
- No interference with WiFi or 5G.
- Multiple KY-LOC pairs can operate in parallel using different channel settings.
- Easy to install, mounting bracket included.
- Maintenance-free.

# DATA SHEET

## KY-LOC 1D.01.01

### Mechanical Interface



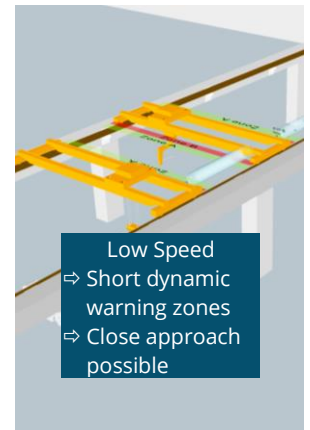
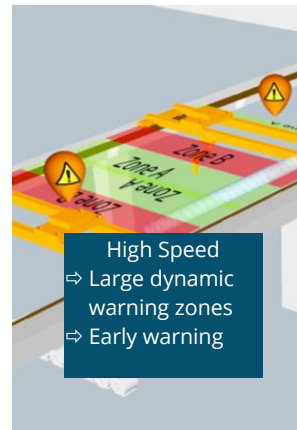
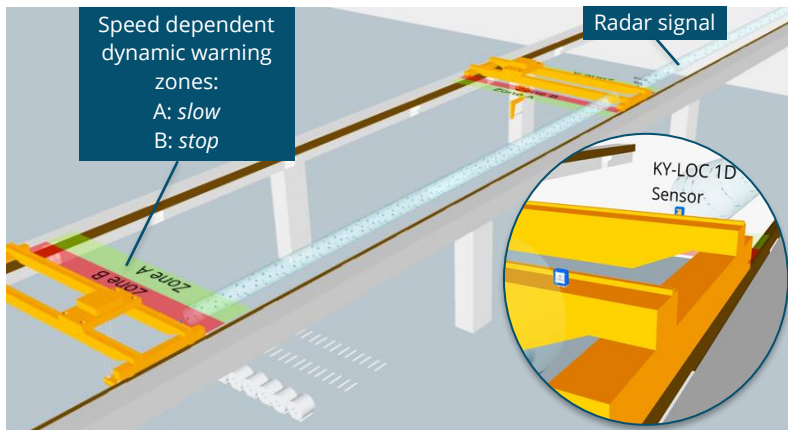
### Electrical Interface

- Separate power supply or PoE
- All interfacing options (see below)

- Data interface: Ethernet
- Power: separate power supply or PoE

- Output signal module KY-XTRA B.10.01 with digital output signals based on defined distance warning thresholds

## APPLICATION EXAMPLES



#### CRANES

- Collision avoidance
- No-go zones
- X-Y-Z axis motion control

#### FREE RANGING OBJECTS

- Rubber tyre gantries
- Not depending on straight alignment of relative mounting positions

#### MACHINE ZONE CONTROL

- Any moving machine
- Control zone entry/exit
- Multiple machines/zones

