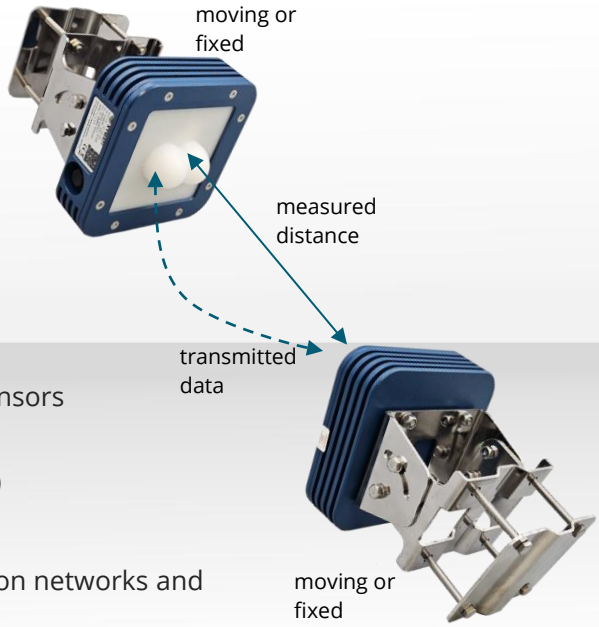
DATA SHEET

KY-LOC 1D.02.01



- Precise and reliable distance measurement between two radar sensors activate collision warning thresholds and measure distances.
- PL/SIL level certification possible (as a system with 2 parallel pairs)
- Maintenance-free indoor and outdoor operation.
- RF based solution, no interference with WiFi, mobile communication networks and electric arc furnaces.

ANTI-COLLISION & POSITIONING SENSOR

TECHNICAL DATA: **KY-LOC 1D.02.01**	
Anti-collision detection range[1)]	0,5m ≤ x ≤ 500 m
Distance measurement range[1)]	0,5 m ≤ x ≤ 500 m
Repeat accuracy of measurement[2)]	typ. ± 15 mm
Absolute distance accuracy[2)]	typ. ± 50 mm
Opening Angle horizontal/vertical	± 7°
Update rate	up to 30 Hz
User data transfer parallel to measurement	up to 1 kbit/s
Protection	IP66, 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)	12 ... 24 V DC or PoE (802.3af), 5 W
Frequency band	60-64 GHz
Interface (M12, 8 pin, female, X-coded)	Ethernet (100Base-Tx), PoE (802.3af)
Radio compliance	ETSI, FCC, IC

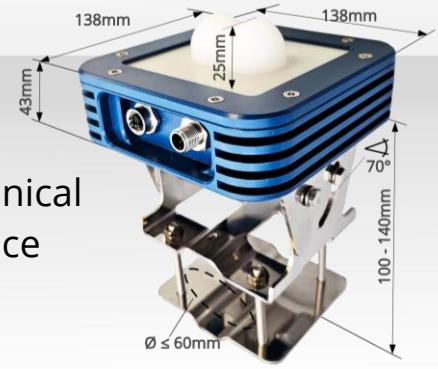
1) Values may vary with radio regulations applicable
2) Environmental conditions may affect the signal path

KY-LOC 1D.02.01- Quick Facts

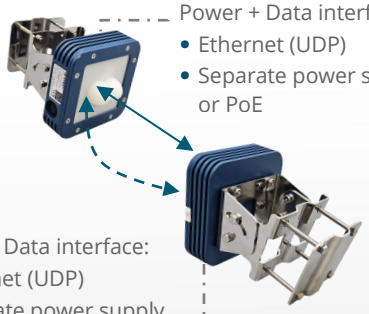
- Cost effective collision warning devices for any type of moving equipment (e.g. cranes, transfer cars).
- Dynamic anti-collision based on approach speed.
- Parallel wireless user data transmission without the use of WiFi.
- Highly reliable under adverse weather conditions, dust, and dirt.
- User-defined preset distance warnings.
- No interference with WiFi or 5G.
- Multiple KY-LOC pairs can operate in parallel using different channel settings.
- Easy integration with PLC devices
- Easy to install, adjustable mounting bracket, cables and connectors available.
- Maintenance-free.

DATA SHEET

KY-LOC 1D.02.01



Mechanical Interface



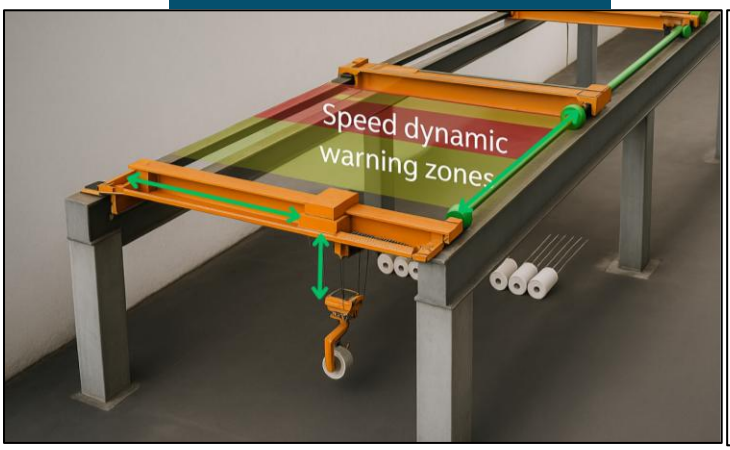
Output Interface

- Interface converter KY-XTRA B.06.01 enabling: Profinet, Ethernet IP
- Interface converter KY-XTRA B.06.01 + KY-XTRA B.05.01 enabling: Profibus

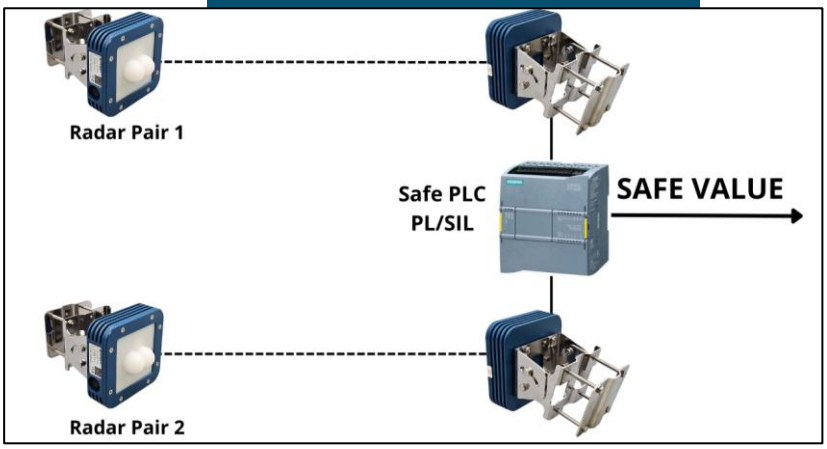
- Output signal module example: KY-XTRA B.10.01 with industrial output signals (dry contacts) based on defined distance warning thresholds

APPLICATION EXAMPLES

X-Y-Z AXIS MOTION CONTROL



INTEGRATION WITH SAFETY PLC



CRANES

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

RAIL BOUND EQUIPMENT

- Stacker Reclaimer
- Gantry Cranes
- Ladle transfer cars

MACHINE ZONE CONTROL

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

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