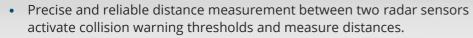
# DATA SHEET **KY-LOC 1D.01.01**

moving or fixed

measured distance



- 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.01.01	
Anti-collision detection range	0,5m ≤ x ≤ 40 m
Distance measurement range	0,5 m ≤ x ≤ 40 m
Maximum operating range <sup>1)</sup>	0,5 m ≤ x ≤ 500 m
Repeat accuracy of measurement <sup>2)</sup>	typ. ± 15 mm
Absolute distance accuracy <sup>2)</sup>	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

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

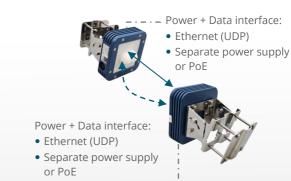
- Ideal for short distance measurement for crane trolley.
- Cost effective collision warning devices for any type of moving equipment (e.g. cranes, transfer cars).
- Dynamic anti-collision based on approach speed.
- Parallel wireless user data transmission without the use of WiFi.
- Highly reliable under 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.



<sup>2)</sup> Environmental conditions may affect the signal path

# DATA SHEET

**KY-LOC 1D.01.01** 

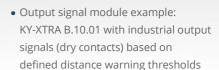




### Output Interface

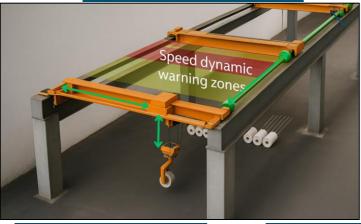


- Interface converter KY-XTRA B.06.01 enabling: Profinet, Ethernet IP
- Interface converter KY-XTRA B.06.01 + KY-XTRA B.05.01 enabling: Profibus

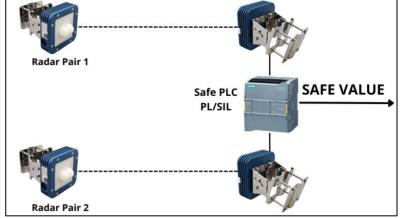


# **APPLICATION EXAMPLES**

#### X-Y-Z AXIS MOTION CONTROL



#### **INTEGRATION WITH SAFETY PLC**



#### **CRANES**

- Collision avoidance
- No-go zones
- Inventory tracking

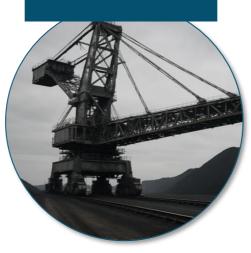
Document: KY-DOC.0125, Ver. 03/2025

#### **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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