UWB Anti-Collision Unit ID-UWB-X10 (Forklift, Relay Outputs, RS485)

Model ID-UWB-X10 · Brand: Identium



A UWB ranging unit that warns of people and vehicles nearby: it measures distance to other units and tagged pedestrians to 10–30 cm, switches relay outputs for a beacon, horn or speed limit at an alarm distance you set between 0 and 100 m, and reports live distance over RS485 to a PLC.

KEY FEATURES

- **Human-to-vehicle and vehicle-to-vehicle collision warning**
- **Ranging accuracy 10–30 cm; alarm distance adjustable 0–100 m**
- Relay outputs (2 normally open, 2 normally closed) for beacons, horns or interlocks
- RS485 (Modbus-RTU optional) live distance to a PLC or computer
- DC 12–24 V from the vehicle, under 5 W; works on power-up, no calibration
- Aluminium body, IP67, –40 °C to +80 °C; 4G and GNSS optional

APPLICATIONS

Forklifts and reach trucks · Overhead and gantry cranes · Mining and quarry vehicles · Shovel loaders · Port and yard vehicles · Pedestrian zones

SPECIFICATIONS

Function	Human-to-vehicle and vehicle-to-vehicle collision warning by UWB ranging
Ranging accuracy	Under 30 cm (10–30 cm, unobstructed)
Alarm distance	Adjustable, 0–100 m
Communication range	Over 100 m (unobstructed)
Ranging rate	1–10 Hz, adjustable
Outputs	2 relays: 2 normally open, 2 normally closed
Data	RS485, 115200 baud; Modbus-RTU optional
Options	4G communication, GNSS positioning

Specifications are indicative and may change without notice; confirm details for your order in the quotation.

UWB band	6.24–6.74 GHz
Antenna	5 dBi
Power	DC 12–24 V; under 5 W
Mounting	Screws or clamp
Dimensions / weight	122 × 137 × 45 mm, under 1.2 kg
Housing	Aluminium alloy, IP67
Operating conditions	–40 °C to +80 °C, 0–90 % RH non-condensing