



LOCU

TAG-BASED LOCALIZATION

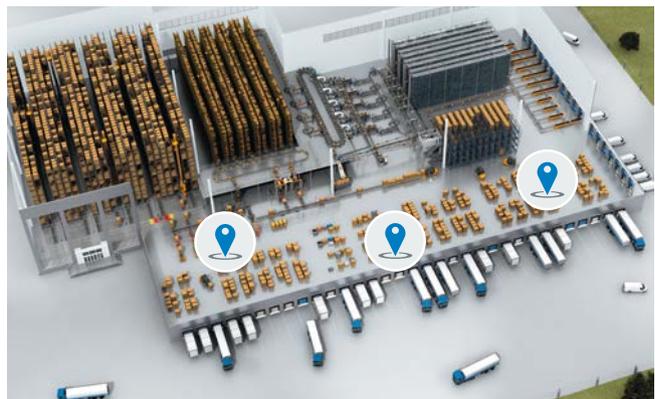
Localization solutions

SICK
Sensor Intelligence.

PROCESS OPTIMIZATION THANKS TO FULL DATA TRANSPARENCY

Logistics processes in warehousing and manufacturing are subject to a constant striving for efficiency. The objective is to reduce costs, and to increase the quality of the sequential processes. For optimal planning and problem-free execution of downstream processes, it is essential to be able to accurately localize goods and items. This is the only way, for example, to reduce unnecessary machine downtimes through knowledge of the incoming products.

SICK's LOCU range of hardware components for indoor localization provide full transparency in intralogistic processes. LOCU employs ultra-wideband technology (UWB) based localization tags and antennas for receiving and evaluating telemetry data, to localize tagged objects in the covered logistic and manufacturing areas.



LOCU is used to localize and trace objects in manufacturing and logistics applications

THE LOCU HARDWARE COMPONENTS AT A GLANCE

UWB localization tag

Thanks to its compact dimensions, the UWB localization tag is easy to attach to transported goods (pallets, containers, lattice boxes, transport vehicles, etc.). Besides an industrial-strength housing, LOCU tags also offer flexible mounting options, for example attachment with screws, magnets or clips. Power is supplied via a high-performance button cell. Intelligent energy management enables these tags to perform maintenance-free localization over a long period of time. Further variants of the LOCU tags, with a rechargeable battery or the ability to connect external power sources (e.g. vehicle batteries), are also available.



UWB receiver antenna

The UWB receiver antennas, also referred to as anchors, evaluate the radio signals of the LOCU tags. Equipped with a PoE (Power over Ethernet) interface and a sensing range of up to 30 m depending on the antenna type, the UWB receiver antennas cover large areas in a wide range of indoor applications. Just like the LOCU tags, the receiver antennas have been designed for industrial use and are both quick to commission as well as suitable for extending existing SICK localization solutions in the area of manufacturing and logistics.

