



RFU65x

UHF transponder identification using an RFID read/write device including entry detection

SICK
Sensor Intelligence.



Technical data overview

Product category	RFID read/write device with integrated antenna
Frequency band	UHF (860 MHz ... 960 MHz)
Version	Long Range
Read range	≤ 10 m
Ethernet	✓, TCP/IP, OPC UA
PROFINET	✓
EtherNet/IP™	✓
EtherCAT	✓, optional over external fieldbus module
Serial	✓, RS-232, RS-422
CAN	✓
PROFIBUS DP	✓, optional over external fieldbus module
USB	✓
CANopen	✓
Weight	3.9 kg

Product description

The RFU65x RFID read/write device saves space, time, and costs when it comes to identifying vehicles and vehicle parts. This compact device is able to determine the angle from which the transponder responds. The RFU65x also features an integrated logic unit that processes data on the basis of algorithms. This makes it possible to deduce entry detection information plus a vehicle's direction of movement when it drives through a receiving goods door, for example. Unlike other devices, the RFU65x does not require any additional external antennae. Not only does this cut down on costs, it also simplifies and accelerates application processes in logistics and the automotive industry.

At a glance

- Antenna and data processing integrated in the sensor
- Read range up to 10 m
- Linkage option to superior control systems or directly to the cloud
- Direction and position detection
- Configuration via SOPAS ET or integrated web server
- Can be used with SICK AppSpace
- Rugged design in accordance with IP67

Your benefits

- High process transparency due to the detection of movement direction and the position of transponders
- Easy configuration through SOPAS ET or the integrated web server saves time and costs for commissioning
- Maximum flexibility when programming individual software solutions with SICK AppSpace
- The rugged design enables reliable operation - even in tough industrial environments
- Very little programming work needed in the control due to intelligent process logics in the device

Fields of application

- Final assembly and vehicle delivery in the automotive industry
- Receiving and outgoing goods doors as well as forklift applications in logistics

Ordering information

Other models and accessories → www.sick.com/RFU65x

- **Frequency band:** UHF (860 MHz ... 960 MHz)
- **Read range:** ≤ 10 m (Depending on transponder used and ambient conditions.)
- **Enclosure rating:** IP67

Radio approval	Type	Part no.
Australia	RFU650-10102	1087587
Brazilian	RFU650-10104	1092036
China	RFU650-10105	1083559
European Union, South Africa	RFU650-10100	1073556
India	RFU650-10103	1096413
Japan	RFU650-10106	1083560
USA, Canada, México	RFU650-10101	1076522

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com