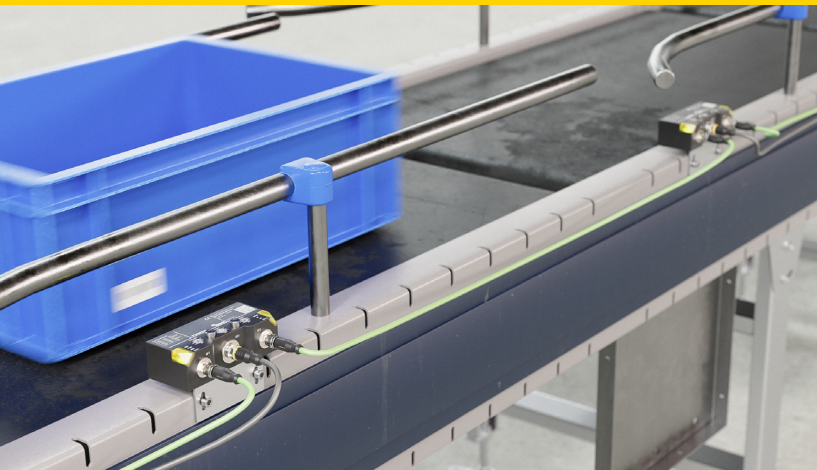


## Q130 HF RFID Read/Write Head



### Reliable Identification & Tracking

Easily read or write data to RFID tags traveling on products, tools and carriers with the all-in-one Q130 HF read/write head. The Q130 is ideal for automatic identification and tracking applications where a single read point is needed. The Q130 HF read/write head is capable of fast processing speeds to successfully read and write data carriers on the fly at high conveyor rates, for example. This innovative device reduces costs by eliminating the need for a separate interface block. Thanks to its multiprotocol interface the device automatically communicates in Profinet, Ethernet/IP or Modbus TCP networks. Integrated S2 system redundancy enables redundant communication between two controllers for added safety.

#### Easy to Integrate for Application Flexibility

The Q130's extended temperature range of -40 to +70 °C makes it useful for cold storage logistics. Plus, with a startup time of less than 500 ms, the Q130 is built for highly dynamic applications such as tool changes in which every second counts. Due to its compact size and impressive range, Turck's HF read/write head can easily be incorporated into plant and machine designs. This device is easy to integrate thanks to QuickConnect capability, reducing the effort required for installation and wiring.

Applications include conveyor transport, overhead cranes, autonomous mobile robots (AMRs) tool tracking and material handling in today's smart factories and warehouses.

### Your Benefits:

- All-in-one read/write head and Ethernet interface, eliminates need for separate block I/O and cable
- Fast processing power ensures accuracy in higher-speed applications
- Extended temperature range of -40 to +70 °C, for use in cold storage
- Multiprotocol support (Ethernet/IP, Profinet and Modbus TCP)
- High IP rating: IP69K front, IP67 rear, ensures a reliable solution in tough applications

# Technical Data

| Type Designation                           | ID  |
|--|---|
| <a href="#">TNSLR-Q130-EN</a>              | 100004502   |
| <b>Technical Data:</b>                     |   |
| Technology                                 | HF RFID   |
| Operating frequency                        | 13.56 MHz   |
| Radio communication and protocol standards | ISO 15693<br>NFC Typ 5  |
| Data transfer                              | Inductive coupling  |
| Approvals                                  | CE<br>UKCA<br>UL  |
| Radio approvals (HF)                       | EU/RED: Europe<br>UK SI 2017/1206: United Kingdom<br>FCC: USA<br>IC: Canada<br>MIC: Japan |
| <b>Electrical Data</b>                     |   |
| Operating voltage                          | 18...30 VDC   |
| DC rated operational current               | <150 mA   |
| Inrush current                             | 2400 mA for 1 ms  |
| Short-circuit protection                   | yes   |
| Output function                            | 4-wire, Read/Write  |
| Transmission Rate, Ethernet                | 10/100 Mbps   |
| Web Server                                 | Default: 192.168.1.254  |
| <b>Mechanical Data</b>                     |   |
| Mounting conditions                        | Non-flush, partially embeddable   |
| Ambient temperature                        | -40...+70 deg C   |
| Storage temperature                        | -40...+85 deg C   |
| Design                                     | Rectangular, Q130   |
| Dimensions                                 | 130 x 69 x 40 mm  |
| Housing Material                           | Plastic, black  |
| Active area material                       | Plastic, PPS-GF30, black  |
| Vibration resistance                       | 55 Hz (1 mm)  |
| Shock resistance                           | 30 G (11 ms)  |
| Protection class                           | IP69K front, IP67 rear  |
| Electrical connection                      | M12 x 1   |
| Connection Technology, Ethernet            | 2 x M12, 4-pin, D-coded   |
| Power-on indication                        | LED, Green  |

