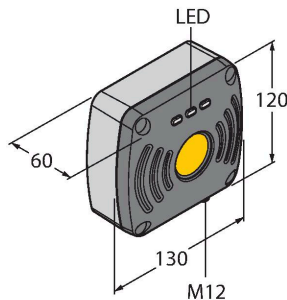


TN921-Q120L130-H1147

UHF Read/Write Device



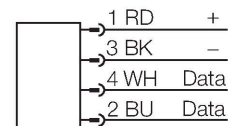
Technical data

| | |
|--|-----------------------------------|
| Type | TN921-Q120L130-H1147 |
| ID | 100001133 |
| Electrical data | |
| Operating voltage | 12...24 VDC |
| DC rated operational current | ≤ 1000 mA |
| Data transfer | Alternating electromagnetic field |
| Technology | UHF RFID |
| Region (UHF) | Singapore (920...925 MHz) |
| Radio communication and protocol standards | ISO 18000-63 EPCglobal Gen 2 |
| Channel spacing | 500 kHz |
| Output power | ≤ 0.5 W (ERP), adjustable |
| Antenna polarization | RHCP |
| Antenna HPBW | 110° |
| Output function | 4-wire, Read/Write |
| Mechanical data | |
| Mounting conditions | Non-flush |
| Ambient temperature | -20...+50 °C |
| Design | Rectangular |
| Dimensions | 130 x 120 x 60 mm |
| Housing material | Aluminium, AL, Silver |
| Active area material | Plastic, ABS, black |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| Electrical connection | M12 × 1 |
| Power-on indication | LED, Green |
| Diagnostic display | differently adjustable |

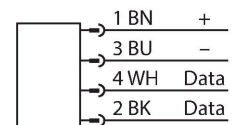
Features

- Rectangular, height 60 mm
- Active face in front
- Plastic, ABS
- Device only suitable for operation in Singapore (SGP) at 920...925 MHz

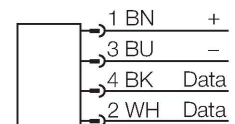
.../S2503 Connectors



.../S2500 Connectors



.../S2501 Connectors



Functional principle

The UHF read/write heads form a transmission zone, the size of which may vary depending on the combination of read/write head and tag used.

Technical data

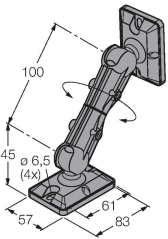
Packaging unit 1

The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials. Attainable distances may vary due to component tolerances, mounting conditions, ambient conditions and influences caused by surrounding materials (particularly metal). Testing of the application under real operating conditions is therefore essential, especially with on-the-fly reading and writing! Due to the higher energy needs of the transponder for a write operation, the range is reduced to approximately 40–60 % of the reading range.

Accessories

RH-Q240L280/Q280L640 7030296

Arm bracket for UHF RFID read/write heads TNxxx-Q175L200-H1147, TNxxx-Q240L280-H1147 and TNxxx-Q280L640-H1147



Accessories

| Dimension drawing | Type | ID | |
|-------------------|------------------------|---------|---|
| | RK4.5T-2-RS4.5T/S2500 | 6699200 | BL ident cable, M12 female connector, straight to M12 male connector, straight, cable length: 2 m, jacket material: PUR, yellow; other cable lengths and qualities available, see www.turck.com |
| | RSCV-RKCV5500-2M/S2500 | 6633193 | Cable for RFID applications in the food industry, M12 connector, straight to M12 female connector, straight, cable length: 2 m, jacket material: PPEDEM, white; other cable lengths and qualities available, see www.turck.com |