

Operating and Monitoring Systems

Peripherals UB03

RFID chipcard reader

UB03-Z2-RFID-C06-USB-PES-01 Art. No. 261220



- Universally applicable user authentication
- For all HMIs and other applications
- Certified for Zone 2, 22
- MIFARE CLASSIC, DESFIRE, LEGIC MIM, LEGIC ATC, SONY FELICIA, INSIDE SECURE and many other protocols
- Can be operated worldwide in temperatures ranging from -40 °C to +70 °C
- Installation directly in hazardous area
- USB, ASCII version

MY R. STAHL RFIDA



The new UB03 is a universally applicable RFID card reader for hazardous areas, certified for Zone 2, 22 acc. to ATEX, IECEx. The reader can be operated as a stand-alone device in hazardous areas or together with a Human-Machine Interface. It works together with all R. STAHL Human Machine Interface (device platforms MANTA, EAGLE, SHARK, RAPTOR).

Technical Data

General

| | |
|----------------------|-----------------------|
| HMI type | Panel mount device |
| Card reader type | proximity card reader |
| Reader specification | RFID-C6-USB-01 |
| Chip card technology | MIFARE, LEGIC |

Explosion Protection

| | |
|---------------------------------|--|
| Application range (zones) | 2 22 |
| Scope | EU (CE / ATEX) International (IECEx) |
| IECEx gas certificate | IECEx BVS 18.0001 |
| IECEx gas explosion protection | Ex ec nC IIC T4 Gc |
| IECEx dust certificate | IECEx BVS 18.0001 |
| IECEx dust explosion protection | Ex tc IIIC T115 °C Dc |
| ATEX gas certificate | BVS 18 ATEX E 002 |
| ATEX gas explosion protection | Ex II 3 G Ex ec nC IIC T4 Gc |
| ATEX dust certificate | BVS 18 ATEX E 002 |
| ATEX dust explosion protection | Ex II 3 D Ex tc IIIC T115 °C Dc |
| Certificates and approvals | ATEX IECEx Australia (RCM) China (CCC / CNEx) Kanada (CSA) USA (FM) USA (UL) India (BIS) Korea (KCC) |

Electrical Data

| | |
|-------------------------|-----------------|
| Voltage range DC | 4.75 to 30 V DC |
| Rated operational power | 1 W |

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Electrical Data

| | |
|-----------------------|--------------------------|
| Card reader type | 13.56 MHz RFID |
| Transponder media | LEGIC/MIFARE/DESFire/EV1 |
| Interfaces | USB |
| Um max. input voltage | 250 V AC |

Auxiliary Power

| | |
|-----------------|--------------|
| Power supply | 5 V DC (USB) |
| Nominal current | 0.2 A |

Ambient Conditions

| | |
|---------------------|-------------|
| Ambient temperature | -40 – 70 °C |
|---------------------|-------------|

Mechanical Data

| | |
|--------------------------------------|------------------------|
| Version | 01 |
| Degree of protection (IP) | IP66 |
| Front enclosure protection type (IP) | IP66 |
| Rear enclosure protection type (IP) | IP66 |
| Enclosure | UB03 & mounting frame |
| Enclosure material | Aluminium |
| Wall thickness | 1 – 5 mm |
| Cable length | 0 m |
| Maximum cable length | 3 m |
| Width | 125 mm |
| Height | 185 mm |
| Depth | 55 mm |
| Depth of cut-out | 54.2 mm |
| Mounting cut-out width | 110 mm |
| Mounting cut-out height | 170 mm |
| Cut-out tolerance | +0.5 mm / -0.3 mm |
| Front plate | Polyester on aluminium |
| Installation location | Panel/enclosure |
| Weight | 1 kg |
| Weight | 2.2 lb |

Mounting / Installation

| | |
|-------------------------------------|---------------------------|
| Mounting orientation | any |
| Connection type | Screw terminals |
| Connection type 1 | 2.5 mm ² green |
| Max. USA solid connection terminals | 22 AWG |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.