



- Universally applicable user authentication
- For all HMIs and other applications
- Certified for Zone 1, 2, 21, 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
- RS-422, CRYPT version

MY R. STAHL RFIDA



The new UB03 is a universally applicable RFID card reader for hazardous areas, certified for Zone 1, 2, 21, 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
Technology	Card reader CRYPT
Reader specification	RFID-C5-RS422-01
Chip card technology	MIFARE, LEGIC
Explosion Protection	
Application range (zones)	1 2 21 22
Scope	EU (CE / ATEX) International (IECEX) International (IECEX) EU (CE / ATEX) International (IECEX)
IECEX gas explosion protection	Ex eb q IIC T4 Gb
IECEX dust explosion protection	Ex tb IIIC T115 °C Db
ATEX gas explosion protection	Ex II 2 G Ex eb q IIC T4 Gb
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC T115 °C Db
Certificates and approvals	ATEX IECEX Australia (RCM) China (CCC / CNEx) USA (FM) USA (UL) India (BIS) Korea (KCC) UKEX Kanada (CSA)

Electrical Data

Voltage range DC	4.75 to 30 V DC
Rated operational power	1 W
Card reader type	13.56 MHz RFID
Transponder media	LEGIC/MIFARE/DESFire/EV1
Interfaces	RS-422
Protocol reader	CRYPT - Variant C5
Um max. input voltage	250 V AC

Auxiliary Power

Power supply	5 V DC/24 V DC
Nominal current	0.2 A

Ambient Conditions

Ambient temperature	-40 – 70 °C °C
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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	1000 m
Width	125 mm
Height	185 mm
Depth	55 mm
Mounting depth	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

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.