

IDENTIV TSSF3-0A uTrust TS Scramble Factor Reader Instruction Manual

Home » IDENTIV » IDENTIV TSSF3-0A uTrust TS Scramble Factor Reader Instruction Manual



Contents

- 1 IDENTIV TSSF3-0A uTrust TS Scramble Factor Reader
- **2 Product Information**
- **3 Product Usage Instructions**
- 4 Introduction
- 5 Product details
- **6 Specifications**
- 7 Product label and location
- 8 Product Certification ID's
- 9 Installation details
- 10 Power up and Testing
- 11 Certifications
- 12 Documents / Resources
 - 12.1 References
- 13 Related Posts



IDENTIV TSSF3-0A uTrust TS Scramble Factor Reader



Product Information

Specifications

• Model: 8413ABT

• Operating Voltage: 12 VDC

• Current: Max Current: 320 mA max, Average Current: 260 mA

• Operating Temperature: 0 to 49 Deg C

• Operating Humidity: 5 to 95% relative humidity (non-condensing)

Product Usage Instructions

Installation

The uTrust TS ScrambleFactor Reader SF.3 is designed for wall-mounted installation. Ensure the power supply is Class 2 listed with 12VDC output.

Connection Interfaces

The device supports Phoenix connectors for OSDP, Wiegand, and Power. Use shielded cables for Wiegand communication with a maximum length of 500ft and AWG-18 specification. For RS485 communication, use shielded twisted pair cables with a maximum length of 500ft.

Operating Instructions

The reader operates in a functional mode with all interfaces active. Ensure the operating temperature is within the specified range of 0 to 49 Deg C and the operating humidity is between 5 to 95% RH.

Frequently Asked Questions (FAQ)

- Q: What type of authentication does the uTrust TS ScrambleFactor Reader support?
 - · A: The reader supports multi-factor authentication including RFID, Contact Smart card, Biometrics, and

PIN entry via an LCD touch keypad.

- Q: What are the dimensions and weight of the product?
 - A: The dimensions of the uTrust TS Scramble Factor Reader SF.3 are 156 x 113 x 49 mm and it weighs 420 g.

uTrust TS ScrambleFactor Reader

Product Manual and Specification for uTrust TS ScrambleFactor Reader SF.3

Confidential

Author	Sixtus Stanly	
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Date	09 April 2024	
Document no	SF.3_PMS_FCC_CE_1.1	

Document History

Version	Date	Description of Change	Author
1.0	11-Jan-2024	Initial version for FCC/CE	Sixtus Stanly
1.1	09-Apr-2024	Updates based on HCT feedback	Sixtus Stanly

Introduction

This document details the Physical Access Control Reader uTrust TS ScrambleFactor SF.3 and its basic user instruction and installation procedures. SF.3 is a multi-factor authentication reader which supports RFID, Contact Smart card, Biometrics, and an LCD display which has a touch keypad for PIN entry. This reader is used to grant/deny access to the users to secured premises.

Functionality

SF.3 has the following interfaces.

User Interfaces

- HF (13.56Mhz), Type A, Type B, VICC cards.
- LF (125KHz) FSK, ASK, PSK
- Contact Smart card ISO 7816 ID-1 formfactor cards
- Fingerprint Optical FP sensor module.
- TFT LCD with Capacitive Touch The LCD can activate a Keypad for PIN entry.
- Buzzer
- Red/ Green LED

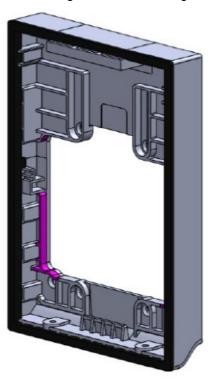
Panel Interfaces

- Power : 12V DC
- RS485- Half Duplex for OSDP communication
- Wiegand Low speed panel communication interface

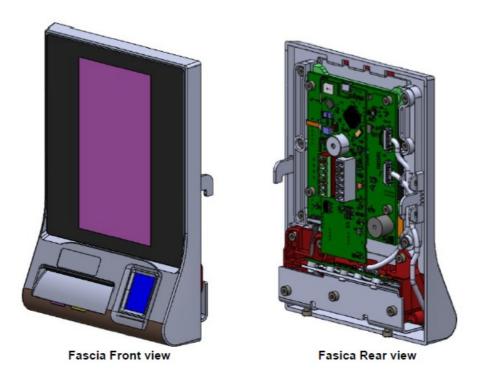
Mechanical Details

The device has 2 main parts,

• A polycarbonate 2 Gang adaptor plate that can be secured to a wall, double gang boxes, and other Identiv mounting boxes. The 2 Gang adaptor has an integrated Fascia seal/gasket on it.



• A polycarbonate fascia with all the electronic subassemblies integrated which is mounted on the adaptor plate.





Fascia and 2 Gang Adaptor integrated when mounted on wall.

Product details

• Product Name: uTrust TS ScrambleFactor Reader SF.3

• Model Name: 8413ABT

• Device Type: Physical Access control Reader (accessory equipment) that has

• RFID reader, 13.56MHz (HF) / 125 KHz (LF) – Intentional Radiator

• LCD Display with Capacitive touch, Fingerprint interface Contact Smart Card interface.

• Type of equipment : Suitable for Indoor use.

• Panel Interfaces: Phoenix connectors for OSDP, Wiegand and Power.

• Voltage Rating: 12V DC; Class 2 listed power supply with 12VDC to be used to power the reader.

• Current Rating @12V DC : Max Current : 320 mA max, Average Current : 260 mA

• Operating Temperature : 0 to 49 Deg C

• **Humidity**: 5 to 95% relative humidity (non-condensing)

• Communication interfaces: Wiegand; Shielded cable, Max length - 500ft, AWG - 18

• RS485 (2wire – Half Duplex); Shielded twisted pair; Max length 500ft

Installation type: Wall MountedDimensions: 156 X 113 X 49 mm

• Weight: 420 g

• Highest internal clock frequency : 400MHz

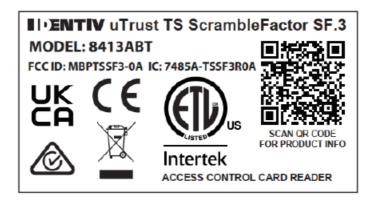
• Mode of operation : Functional mode with all interfaces active.

Specifications

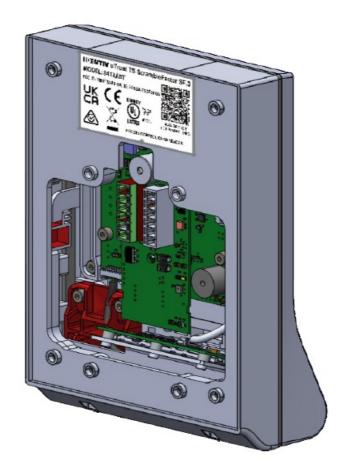
Model	Operating Voltag e	Current	Operating temp	Operating humi dity
8413ABT	12 VDC	Av – 260mA Pk- 320mA	0 to +49 deg C	5 to 95% RH

Product label and location

Certification label



Label location



Product label

■IPENTIV uTrust TS ScrambleFactor SF.3

BAR CODE TYPE 128 PPPPYYWWMCNNNN

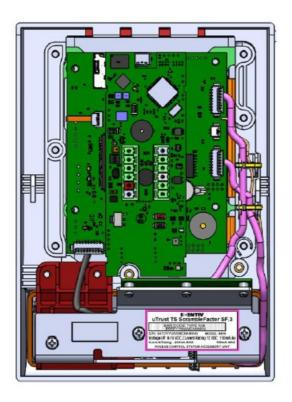
S/N: 8413YYWWMCNNNNN MODEL: 8413ABT

Voltage I/P: 12 VDC,

Current Rating: 260mA Av 320mA MAX

ACCESS CONTROL SYSTEM ACCESSORY UNIT

Label location



Product Certification ID's

- FCC ID MBPTSSF3-0A
- IC ID 7485A-TSSF3R0A

Installation details

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

Parts List

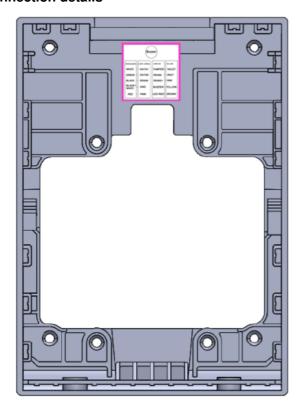
- Fascia Bezel with electronics -1 No
- 2 Gang adaptor plate 1 No
- Screws (6-32 X 3/4 SS Black) 4 No's 2 gang adaptor to mounting box or US 2 gang box.
- 6 pin phoenix plug- 2 Nos
- Ferrite Core 246 OHM Hinged (P No: 74271131) 1 No
- Screws (Phillips PAN HEADx2 M3, L8) 2 Nos 2 Gang adaptor to Fascia.

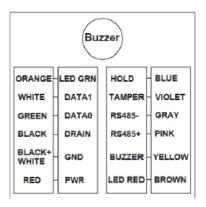
- Nylon anchor plug -4 Nos -Installing mounting box to wall, optional.
- Screws (A #6-18X1.5" SS) 4Nos Back Plate mounting screws for Wall, Optional.

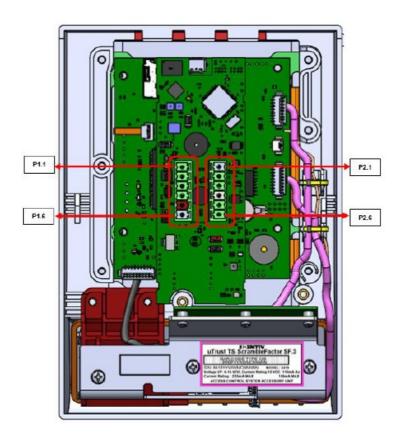
Recommended Infrastructure

- All cabling and wiring shall be UL Listed and/or UL Recognized
- Cable Wiegand-18AWG Shielded cable or better.
- Cable RS485-24AWG STP or better
- Cabling shall comply with UL2556 VW-1 for IEC62368 complaint installations.
- Power Supply-Class 2 Linear DC PSU 12 V, 1A min. (for uL compliant installations) ES1 / PS2 Linear DC PSU 12 V, 1A min. (for IEC 62368 compliant installations)

Connection details







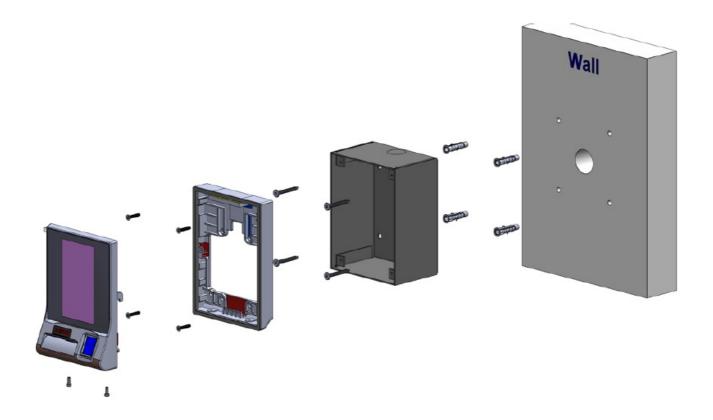
Pin Number	Pin Function	Wire Color	
P1.1	LED Green	Orange	
P1.2	Wiegand Data 1	White	
P1.3	Wiegand Data 0	Green	
P1.4	Shield Ground/ Drain	Black	
P1.5	Ground	Black & White	
P1.6	+ 12 VDC (nominal)	Red	
P2.1	Hold	Blue	
P2.2	Tamper Output	Violet	
P2.3	RS485 –	Grey	
P2.4	RS485 +	Pink	
P2.5	Buzzer	Yellow	
P2.6	LED Red	Brown	

• Shield Ground/ Drain – Black wire should be connected to the cable shield.

Caution

During Wiring make sure that the +VDC lines do not touch any other cables, as it might affect reader functionality/ cause damage to the reader.

Mounting the Reader



- Make the required holes on the wall corresponding to the mounting box screw positions.
- Insert the nylon screw plugs into the wall. Needed only if the mounting box is to be installed on the wall.
- Pull the cables from the wall through the mounting box and install the mounting box.
- The reader is to be mounted at a height less than 2 meters from the floor for MS1 compliance as per IEC 62368-1
- Strip off the overall jacket and shield of the Wiegand / OSDP cable approx 6 inches.
- Wind the conductors of the cable two turns in the ferrite core. Clamp the ferrite core on the wires close to the connectors by pressing the ferrite core. (P No : .
- Secure the 2 gang adaptor plate onto the mounting box with the 6-32 X 3/4 STAINLESS Screws X 4
- Hook the fasica sub assembly onto the 2 gang adaptor plate. Ensure the two parts are properly assembled.
- Secure the fascia and the 2 gang adaptor plate with the PAN HEAD X2 M3 L8 (Qty-2) screws.

Power up and Testing

• Turn power on

Buzzer sounds one short Beep and then a long beep.

The LCD turns ON and home screen is displayed.

Present a card

Contactless card – The LCD screen updates to show card screen. Contact card – The LCD screen updates to insert contact card.

FP access

Use ENROL on the home screen to enroll a finger to the reader. Use VERIFY to get access grant/ denied for a finger.

Certifications

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information to user

Changes or modifications not expressly approved by Identic could void the user's authority to operate the equipment.

IC

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions

- 1. This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

CE

Identic hereby declares that the uTrust TS ScrambleFactor SF.3 reader Model 8314ABT is in compliance with the essential requirements and other relevant provisions of CE directive

Documents / Resources



<u>IDENTIV TSSF3-0A uTrust TS Scramble Factor Reader</u> [pdf] Instruction Manual TSSF3-0A, TSSF3-0A uTrust TS Scramble Factor Reader, uTrust TS Scramble Factor Reader, TS Scramble Factor Reader, Reader

References

User Manual

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