



IDENTIV uTrust TS Contact Keypad Reader User Manual

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User Manual
uTrust TS Contact Keypad Reader 8216
Version 1.1
Confidential

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Document History

Version	Date	Description of Change	Author
1.0	14-Feb-2019	Initial version	Sixtus Stanly
1.1	11-Aug-2020	Added ISED French notes	Sixtus Stanly

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Introduction

This document details the Physical Access Control Reader uTrust TS Contact Keypad Reader and its basic user instruction and installation procedures. The 8216 reader extends the features supported by the 8210 readers, by adding interfaces for accessing a Contact Smart Card and a SAM interface. The contact interface enables users to securely access their contact smart cards with or without the use of a Keypad pin. The addition of a SAM interface enables end-users to load a SAM module for enhanced/ secure card read operations and support for third-party proprietary protocols. The reader supports Wiegand and RS485 (OSDP protocol) interfaces for communications to the control panel.

Reader

2.1 Functionality

8216 is a physical access control smart card reader (accessory equipment) that can read the following credentials

- Contactless HF (13.56MHz) conforming with ISO 14443 A & B, ISO15693

- Contactless LF (125KHz) credentials of type FSK, ASK, PSK

- Contact Smartcards conforming to ISO-7816 in the ID-1 formfactor

Keypad interface – can be used stand-alone or, for highly secure applications, it adds a second level of authentication with a user PIN.

User-feedback interfaces on the reader include RGB leds and Buzzer.

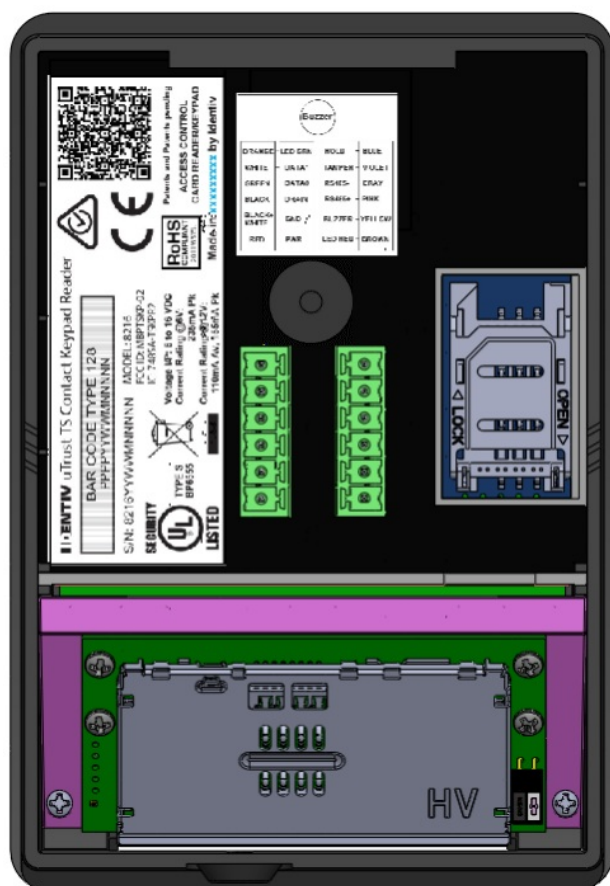
The reader can be interfaced with an access control panel equipped with a Wiegand or an RS485 half-duplex interface

2.2 Front/Top Casing

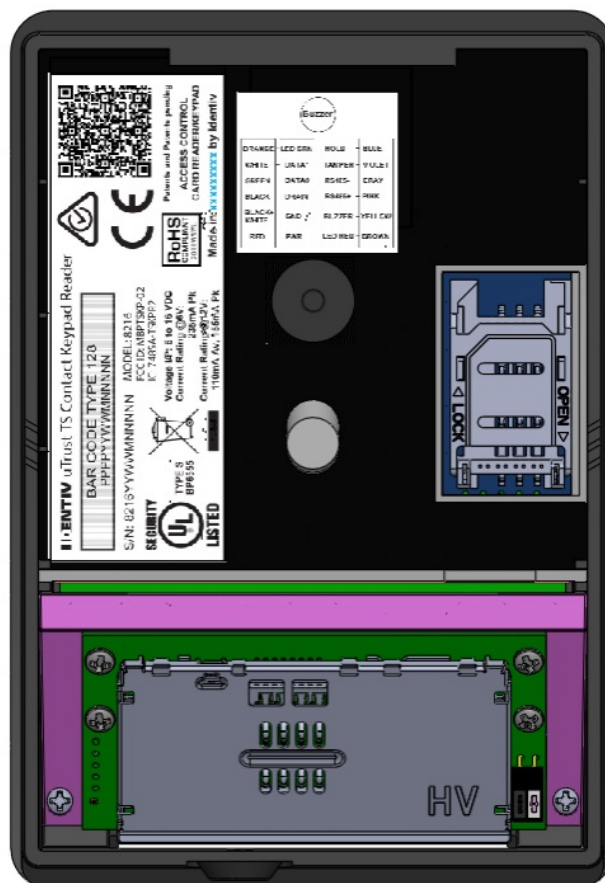
2.3 Rear View w/o backplate



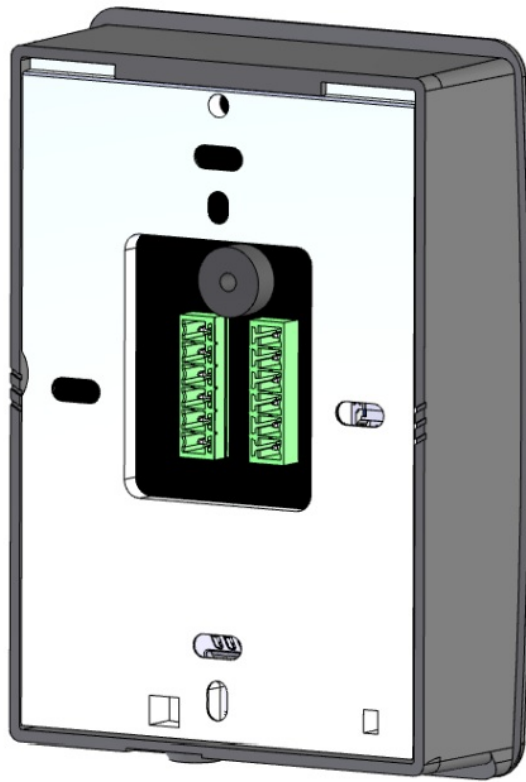
uTrust TS Contact Keypad Reader



Reader with Terminal connector



Reader with Pigtail cable



Rear View with Backplate

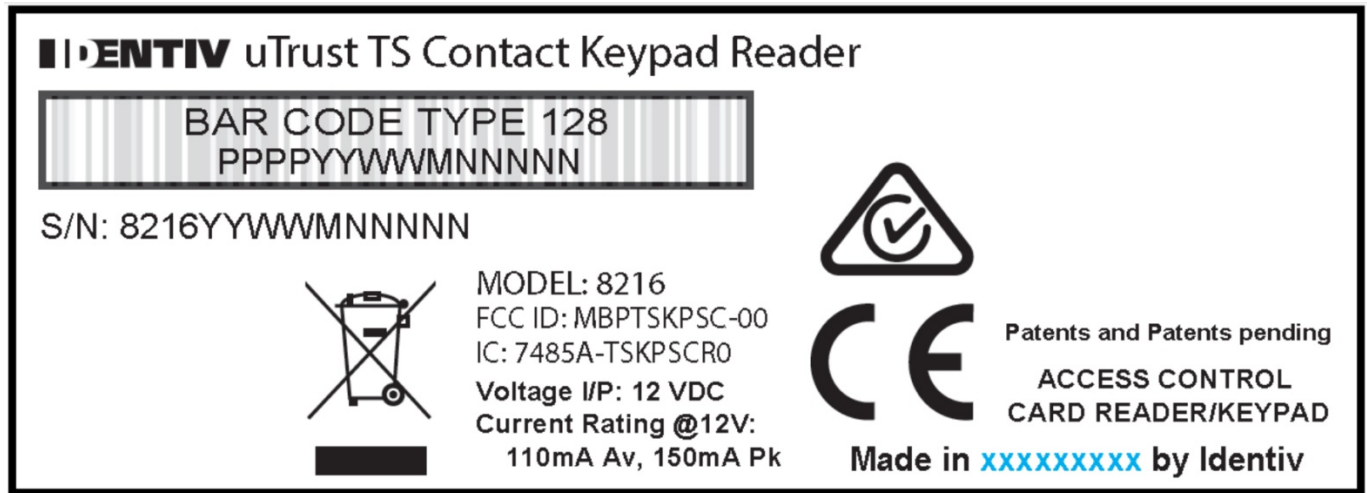
Product details

Model Name	8216
Device Type	RFID reader, 13.56MHz (HF) / 125 KHz (LF), keypad with Contact smartcard Slot for ID-1 sized cards and SAM slot. Physical Access control Reader (accessory equipment)
Type of equipment	Potted Reader, Suitable for Indoor use
Interface Type	Phoenix connectors and Pigtail cable
Current Rating @12V	: 12V DC
Current Rating @12V	: Peak Current – 150 mA, Average Current – 110 mA
Communication protocol	: Wiegand, RS485 (2wire – Half Duplex)

Specifications

Model	Operating Voltage	Current	Operating temp	Operating humidity
8216 uTrust TS Contact KEY PAD reader	12 VDC	Av – 110mA Pk-150mA	0 to +49 deg C	85 +/-5 % RH

Product Label



Product Certification ID's

6.1 FCC Certification ID – MBPTSKPSC-00

6.2 IC Certification ID – 7485A-TSKPSCR0

Installation details

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

7.1 Parts List

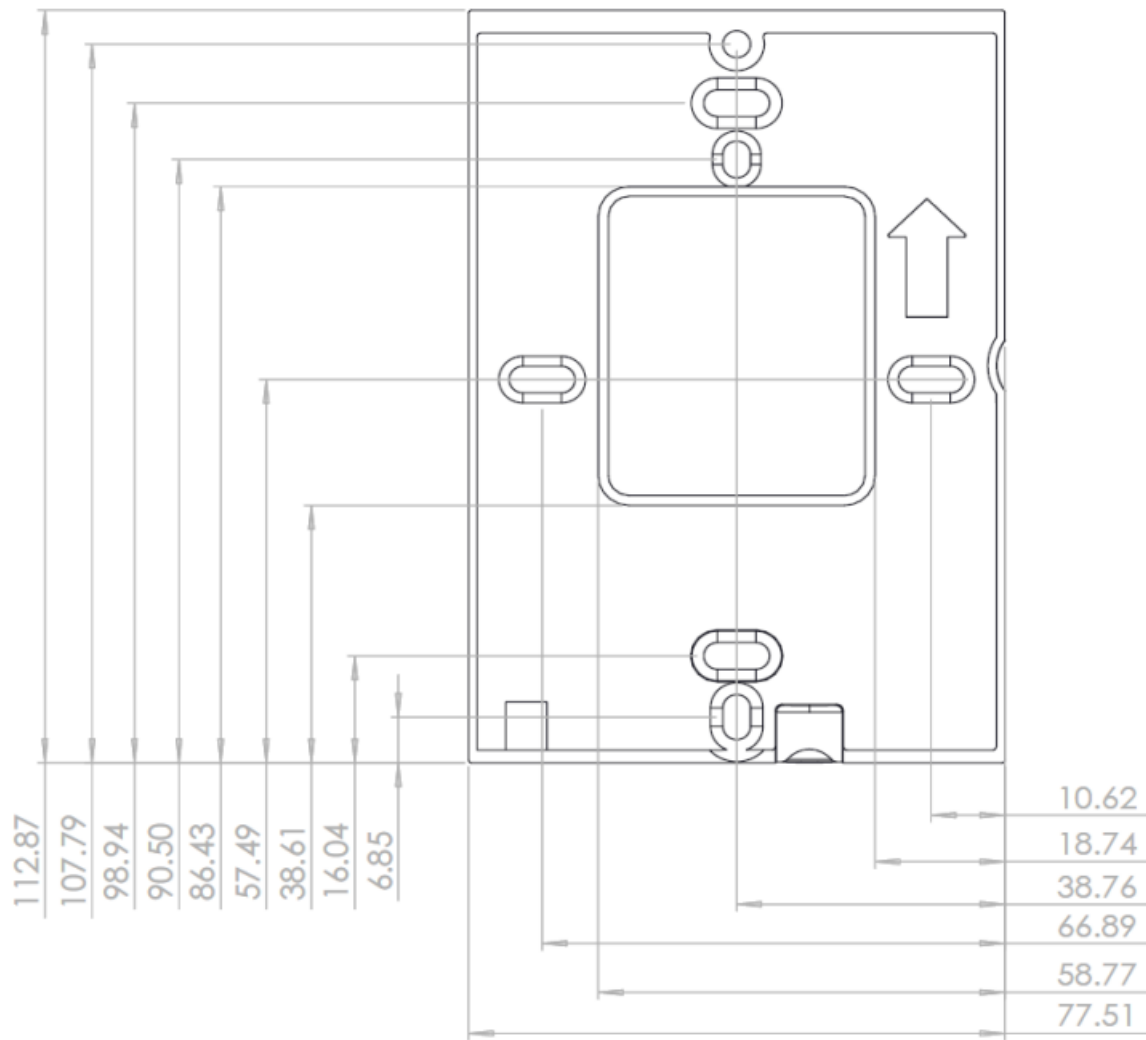
- TS Contact Keypad reader -1
- Screws (A #6-18X1.5" SS) – 4Nos Back Plate mounting screws for Wall
- Snake Eye Screw (SMF #6-32X5/16" SS) 1 No- Top casing mounting security screw
- Screws (SMF #6-32x3/8" SS) – 3 No's – 1 casing to back plate mounting screw and 2 Junction
- Box mounting screws
- Nylon anchor plug -4 Nos
- 6 pin phoenix plug (Phoenix connector version only) 2 Nos
- Back Plate

7.2 Recommended Infrastructure

- All cabling and wiring shall be UL Listed and/or UL Recognized
- Cable Wiegand
 - 22AWG Shielded cable or better. (Cable P No: ALPHA WIRE, P/N 1299/10C)
- Cable RS485
 - 24AWG STP or better shall comply with UL2556 VW-1
- 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)

7.3 Connector Information

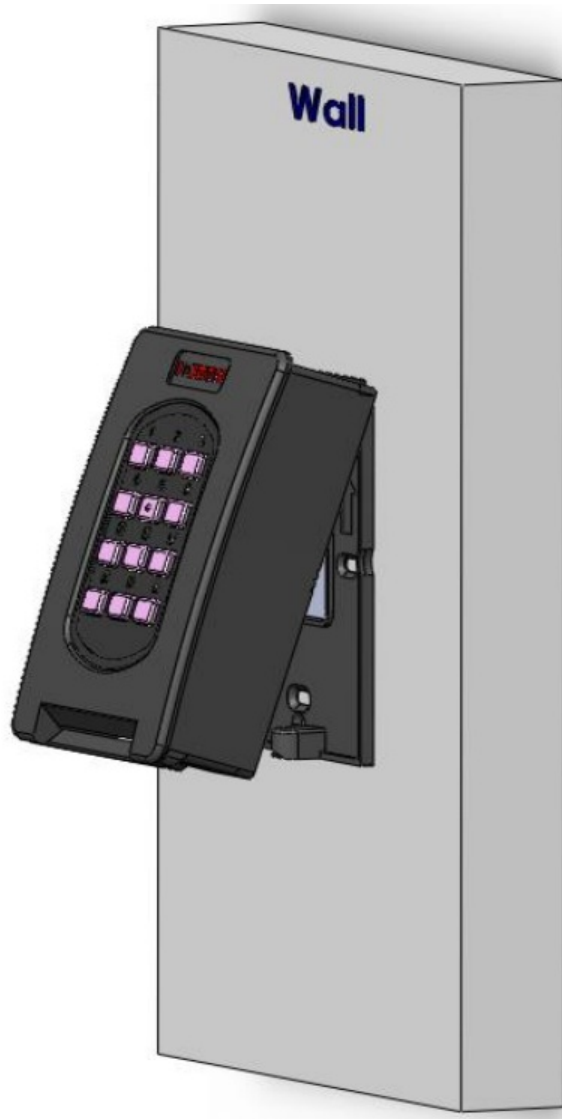
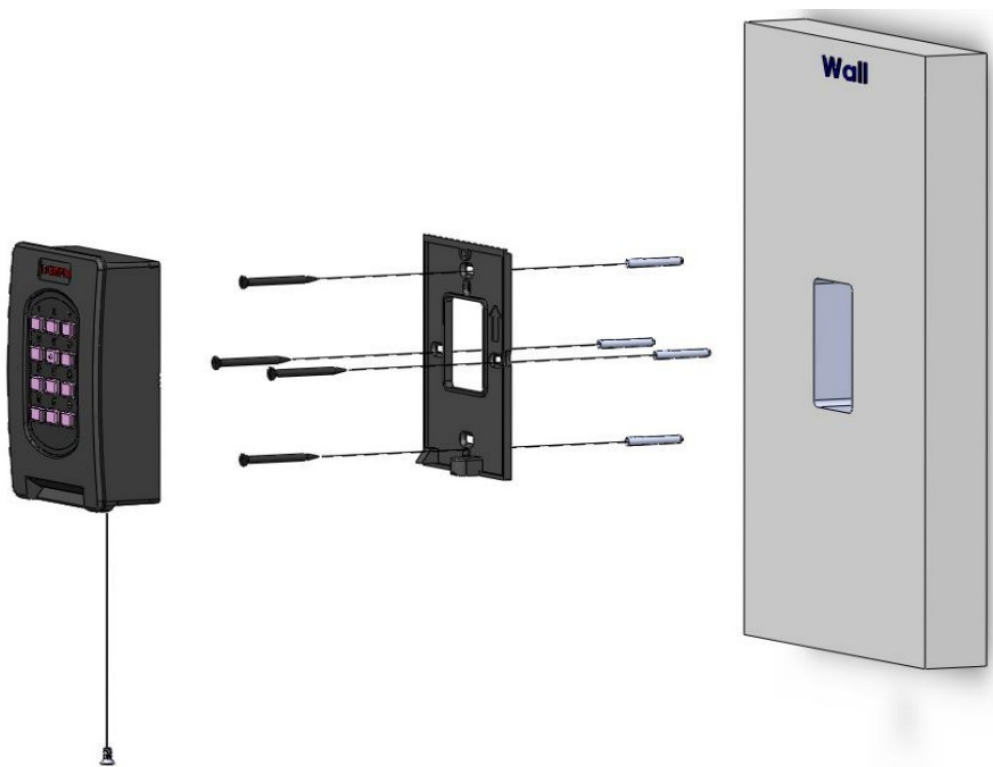
7.3.1 Pinout diagram



Phoenix connector Reader 4 Holes and 1 Slot

7.4.2 Reader Installation Steps

- Make the required holes on the wall as per the backplate drawing above.
- The reader is to be mounted at a height less than 2 meters from the floor for MS1 compliance as per IEC 62368-1
- Insert the nylon screw plugs into the wall.
- Connect the wires as per Table 2 or Table 3.
- Secure the backplate onto the wall using the Screws (A #6-18X1.5" SS)
- Hook the reader onto the backplate
- Secure the reader and backplate by the Snake Eye Screw (SMF #6-32X5/16" SS)



Power up and Testing

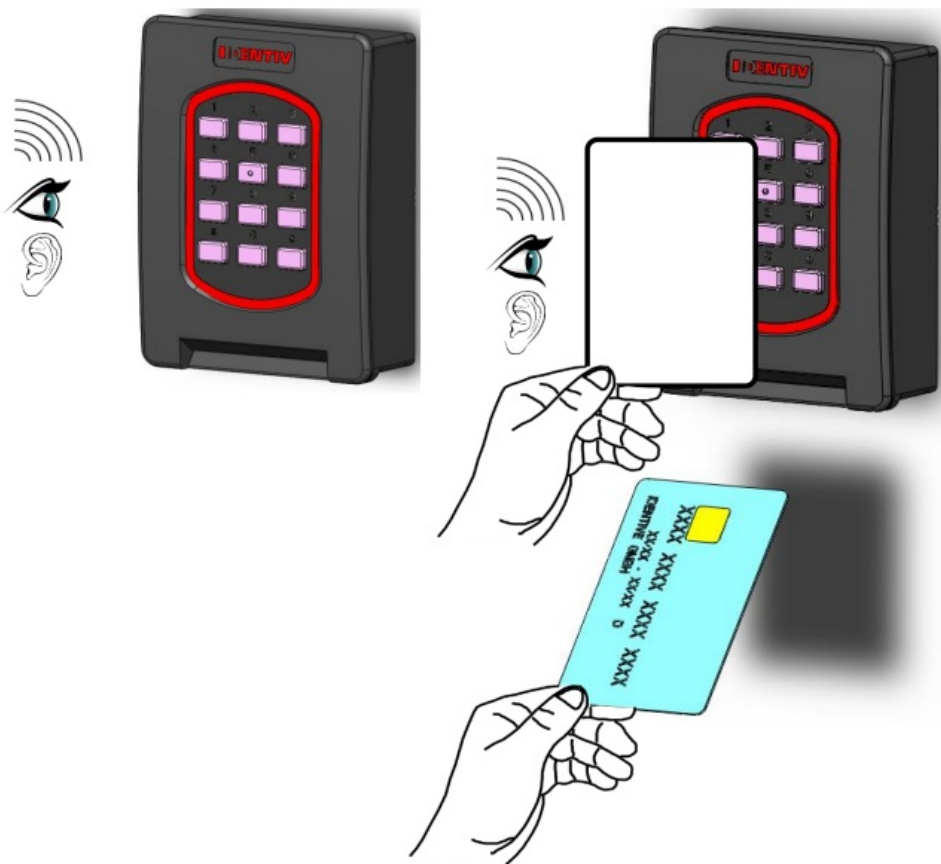
1. Turn the power on The LED blinks 3 times green with a long beep, then turns red

2. Present a card Contactless card

- The LED blinks green and a short Beep has heard Contact card
- The LED blinks Green and a short Beep is heard

3. Press Key

Buzzer tone & backlight LED blinks



Certifications

9.1 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 Identiv could void the user's authority to operate the equipment.

9.2 ISCED

This device complies with Innovation, Science, and Economic Development Canada's license-exempt RSS standard(s).

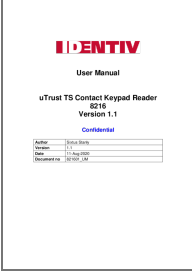
Operation is subject to the following two conditions.

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

9.3 CE

Identiv hereby declares that the uTrust TS Contact Keypad Reader Model 8216 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Documents / Resources

	<p>IDENTIV uTrust TS Contact Keypad Reader [pdf] User Manual TSKPSC-00, MBPTSKPSC-00, uTrust, TS Contact Keypad Reader</p>
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