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ASIS technologies R385 Series Reader

Product Information

Specifications:

- Power Supply (Recommend): Regulated linear power supply, +12VDC, 300mA
- Operating Voltage Range: +9VDC – +24VDC
- Maximum Cable Distance: 150 meters (500 feet)
- Reader Module Dimension: 76.00mm x 21.00mm x 135.00mm

Reader Wiring and Color Code

Terminal Point Label	Description	Recommended Cable Color
Dev+	RS485+	Yellow
Dev-	RS485-	White
+V	+12VDC	Red
GND	DC Ground	Black

Table 2 Wiring and Cable Color code

DIP Switch Setting

BIT	1	2	3	4	5	6	7	8
Function (RS485)	ADDRESS BIT				MODE and Data Out BIT			n/a
	bit 0	bit 1	bit 2	bit 3	RS485	Off- 8 byte On -4 byte	Off – CSN On – CAN	n/a
Function (Wiegand)	Card format Setting							

Table 3 Dip Switch function explain

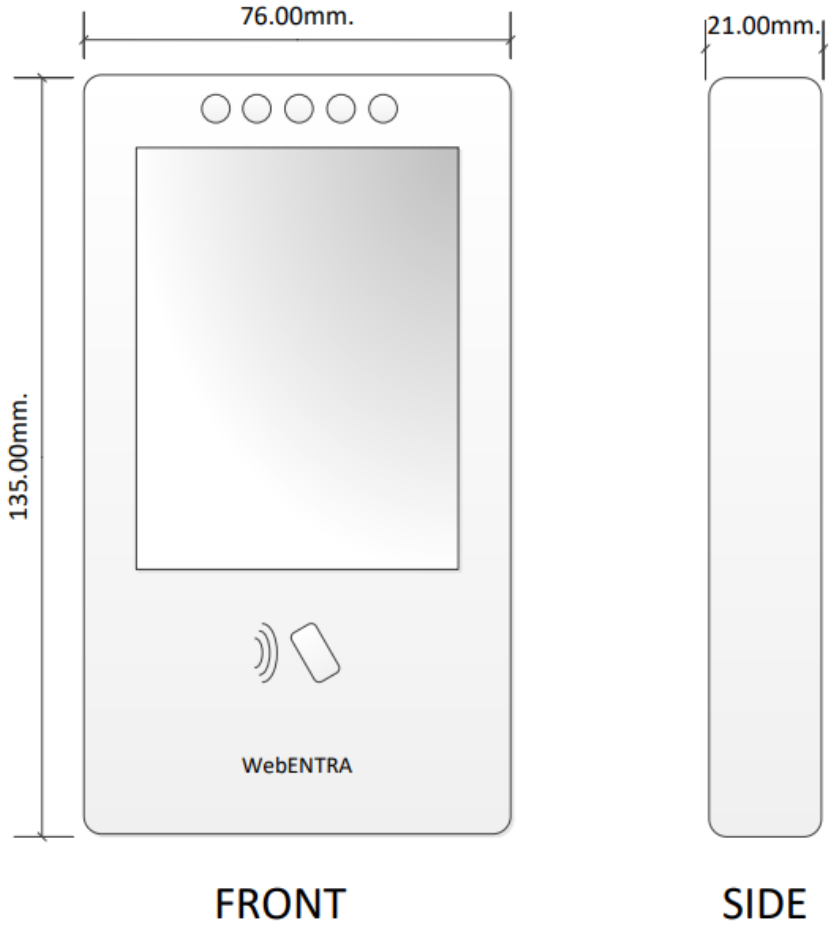
			BIT					
	Reader	Hex address	1	2	3	4	5 ~ 8	
Function	1	80	Off	Off	Off	Off	Refer to	
(RS485)							above	
	2	81	On	Off	Off	Off		
BIT							table	
Address	3	82	Off	On	Off	Off		
	4	83	On	On	Off	Off		

	5	84	Off	Off	On	Off		
	6	85	On	Off	On	Off		
	7	86	Off	On	On	Off		
	8	87	On	On	On	Off		

Table 4 RS485 Readers Address Dip Switch Setting

Dimension

Reader Module Dimension

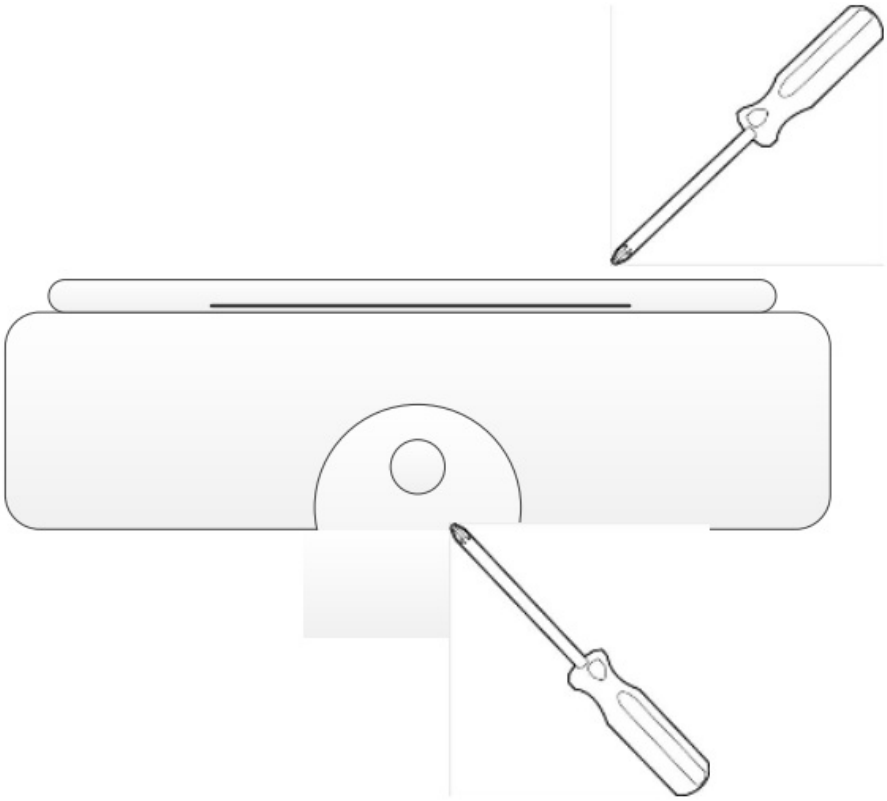


Installation And Mounting Instruction

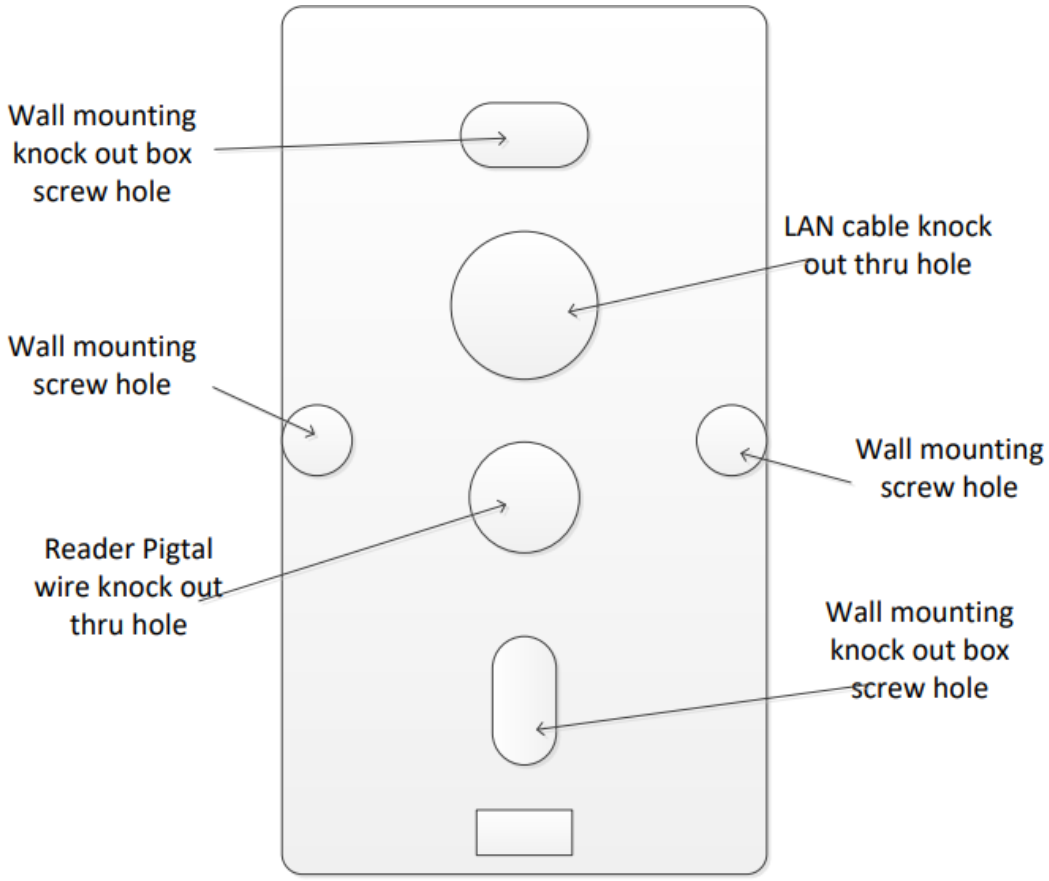
Remove Bottom Screw

Ply open the front cover using flat head screw driver remove the front of the unit.

Remove the front of unit

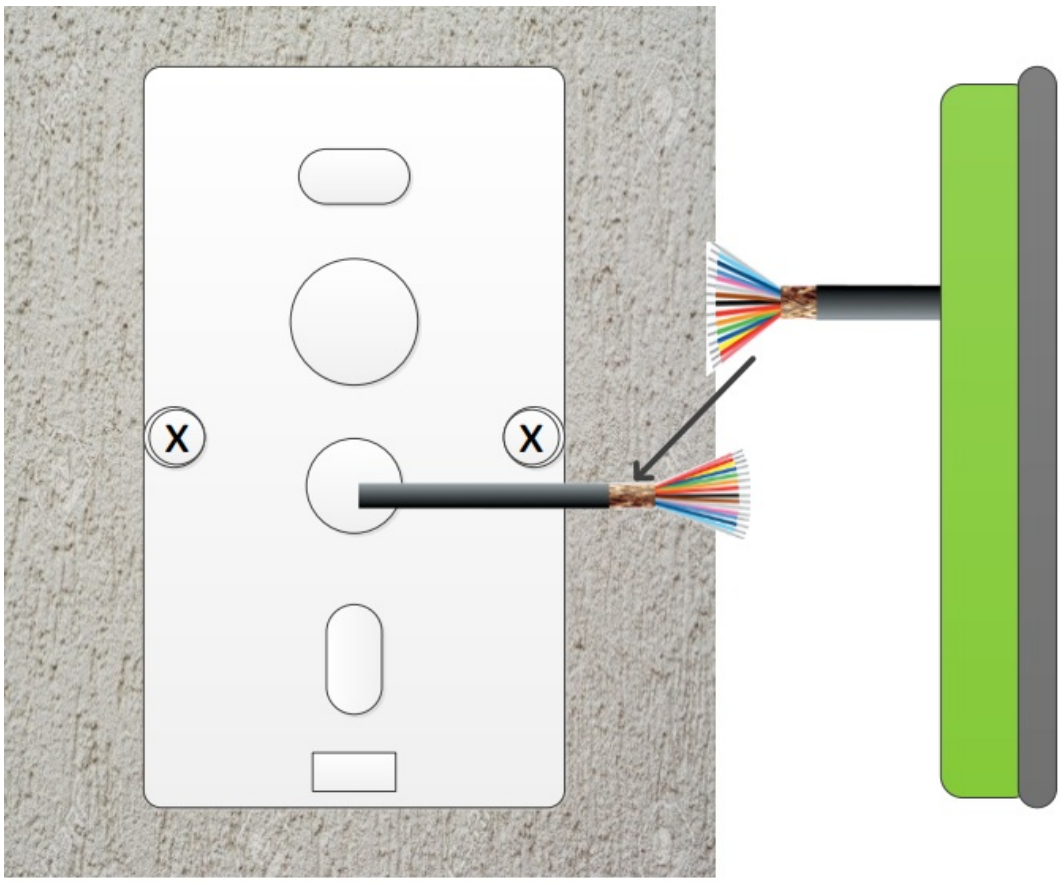


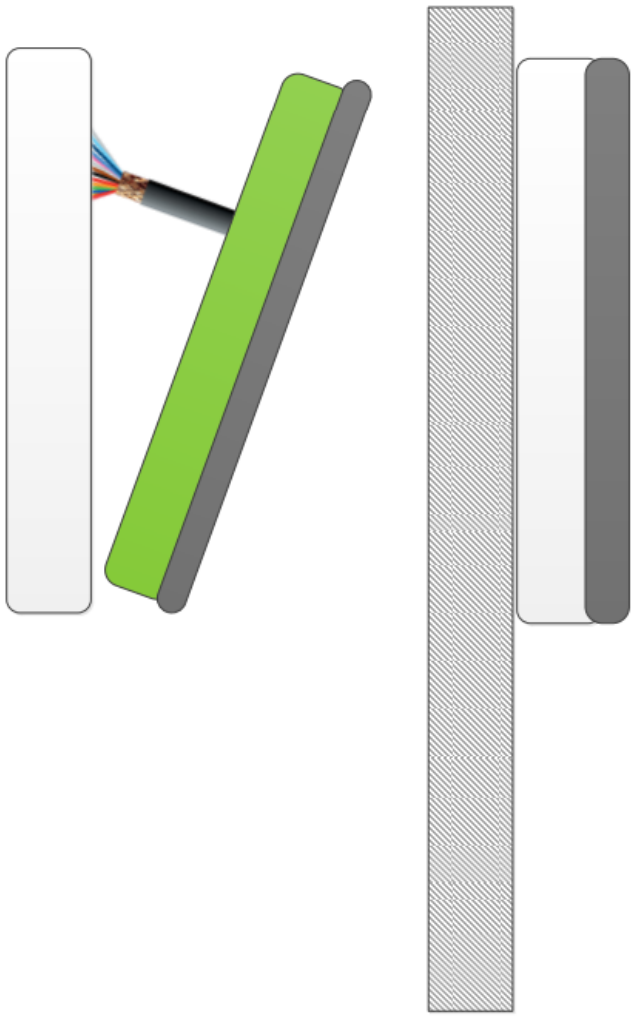
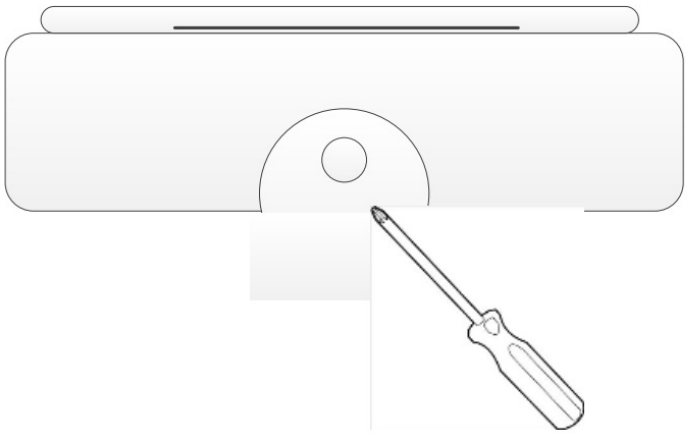
Mark out reader base (reader wire pigtail) and (wall mounting hole) drill hole on the wall for mounting reader.



Half tighten wall mount screw.

Terminate reader pigtail cable to cable from controller. Tighten wall mount screw



Reinsert reader front to base by set the bottom. Align reader pigtail cabl e accordingly. Push to front top to s nap into the base.	
Tighten bottom screw	

Operation Guide

Keeping the card in parallel to the R385 reader a maximum read range can be obtained. The Reader will still be able to read Card when the card is presented at an angle but this will result in the reducing of read range.

Card and PIN operation

- In Card & Pin mode LCD screen prompt to Enter Pin, enter PIN follow s by “#” key
- Key in PIN + 1 for PIN DURESS (Example PIN is 1234, for duress activation, key pin 1235)

Note that the maximum PIN is up to 6 digit.

Package List – R385 Reader

Item Description: Complete with snap on cover. 1 x Mounting cover security screw [M3], 1 x security screw driver, and this document.

Product Electrical Specification

Power Supply (Recommend)	Regulated linear power supply, +12VDC, 300mA
Operating Voltage Range	+9VDC – + 24VDC
Operating Current at +12VDC	85mA (average) – 185mA (peak)
Maximum Cable Distance	150meters (500feet) (base on Belden 9538 24AWG 0.6mm, 8 core cable foilshield) (for wiegand interface) (base on Belden 9534 24 AWG 0.6mm, 4 core cable foilshield) (for RS485 interface)
Read Range	<=50mm (2”) (Read Range is dependent on local installation con ditions)
Transmit Frequency	13.56MHz
LED	Tri Color – Red, Green, Amber

Buzzer	Multi-tone
Operating temperature Range	-20°C to 50°C
Colour	Black
Material	High Heat ABS
Weight	200 grams
Dimension	135mm (Height) X 76mm (Width) X 21mm (Thicknes s)
Wire Termination	9 conducting wire at length approx. 300mm
Reader Mode	Card Only, Card and PIN.
PIN Input	1 – 6 Digits
Keypad	3 x 4 Keys
Communication Interface	RS485 or Wiegand (Selectable)
Wiegand interface Output bit format	26, 32, 37, 40, 56, 80, 168(Asis) bits format and 8-digit 32, 37, 40 bits format
Support Card Type	Mifare (ISO 14443-A, ISO 14443-B)
EZ-Link	Output CAN or CSN (Selectable)
Mounting	Reader back casing mount

FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
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.

RF Exposure Information
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Frequently Asked Questions

Q: What is the maximum PIN length for Card and PIN operation?
A: The maximum PIN length is up to 6 digits.

Documents / Resources

	ASIS technologies R385 Series Reader [pdf] User Guide SPH-385, SPH385, 385, R385 Series Reader, R385 Series, Reader

References

- User Manual

ASIS technologies

385, ASIS technologies, R385 Series, R385 Series Reader, Reader, SPH-385, SPH385

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