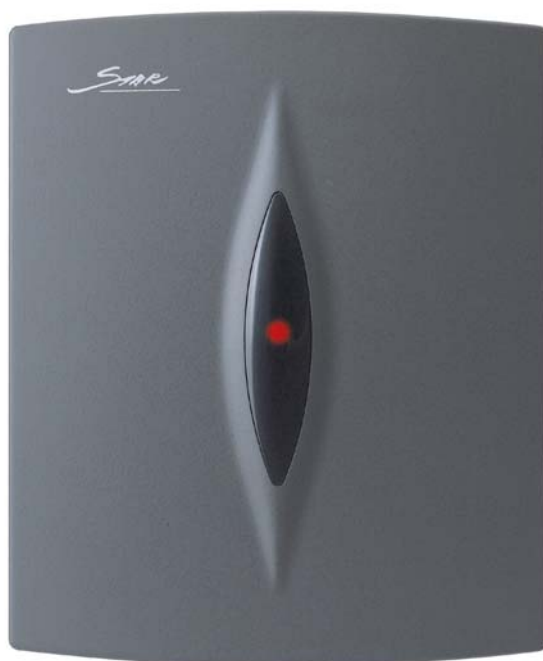


USER'S MANUAL

***STAR* RF30+**

Proximity Reader



ID TECK Co. Ltd.

CONTENTS

1. Introduction	page 3
2. Identifying supplied parts	page 3
3. Specification	page 3
4. Installation	page 4
5. Wire Color Table of the Reader	page 5
6. Wire Connection to Controller	page 5
7. Operation	page 6
8. FCC Registration Information	page 7
9. Warranty and Service	page 8

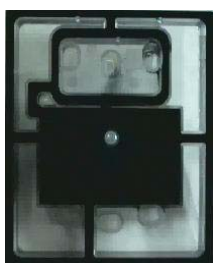
1. Introduction

The STAR RF30+ is an elegant looking and attractive 12" read range proximity reader which can be mounted on any flat wall surface. The RF30+ uses the electronics module in epoxy potting that ensures successful operations even in harsh environments.

The two-color LED of green and red and the inside Piezo buzzer sound will guarantee you accurate and reliable system operations.

2. Identifying supplied parts

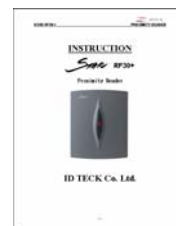
Please unpack and check the contents of the box.



Reader Module



RF30+ Bezel



Instruction

3. Specification

Read Range	Up to 12"(30cm)
Input Voltage/Current	DC 7V ~ 17V / Max. 170mA
Output Format	26 bit Wiegand, Magstripe ABA Track II
External Beeper control Input	Low Active, DC 0 ~ 12V, Max. 50 mA
External LED control Input	Low Active, DC 0 ~ 12V, Max. 50 mA
LED/Beeper	2-Color LED(Red and Green) / Piezo Buzzer
Color	Dark Gray
Operating Environment	-31℃ ~ 149℃(-35℃ ~ +65℃), 0~90% Humidity
Overall Size(WxHxD)	5.2"x 6.2"x0.8"(130x154x20.5mm)
Weight	0.93 lbs (420g)

4. Installation

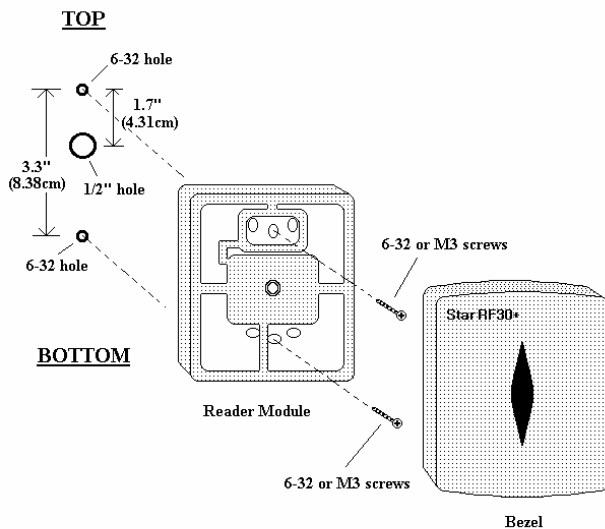
4-1. Wall Mount

Drill two 6-32 or M3 holes 3.3"(8.38cm) apart in vertical and drill one 1/2" hole for the reader cable 1.7"(4.31cm) apart from the top hole.

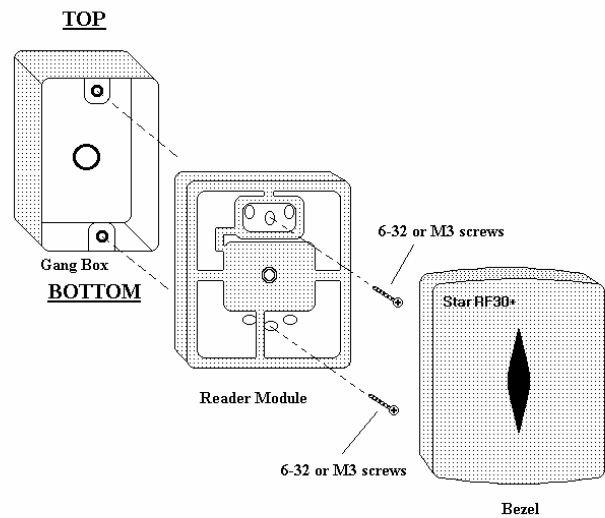
(If you have installed an electric gang box then skip this step and go to step 4.2.)

4-2. Put reader cable into the center hole and install the reader module by using two 6-32 or M3 screws (Not included).

4-3. Put bezel on to the reader module then push bezel until you hear the locking sound.



Wall Mount



Electric Gangbox Mount

5. Wire Color Table of the Reader

POWER

Power(DC +7V~+17V)	DC(+)	Red wire
Power(DC Ground)DC(-)	(GND)	Black wire

INPUT

Beeper control input	BEEP	Blue wire
LED control input	LED	Yellow wire

OUTPUT(Wiegand Format)

Wiegand Data-0	Data-0	Green wire
Wiegand Data-1	Data-1	White wire

OUTPUT(RS232 Format)

RS232(TX)	TX	White wire
-----------	----	------------

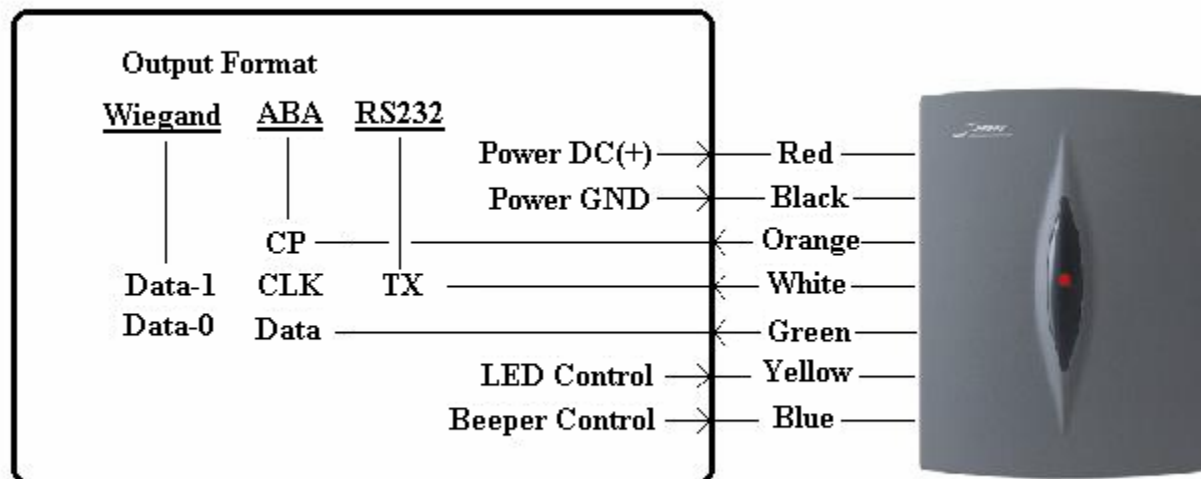
OUTPUT(ABA Track II Format)

ABA(Card Present)	CP	Orange wire
ABA(Clock)	CLK	White wire
ABA(Data)	Data	Green wire

Note: All ABA Track II outputs are open collector output.

6. Wire Connection to Controller

Access Controller



Wire Connection to Controller

7. Operation

- 7-1. Once power is applied, you should hear three beeping sounds and LED changes color to red-green-red indicating that the reader is in standby mode after a successful initialization and diagnostics.
- 7-2. Present proximity card to the reader until you hear the beeping sound and see the LED changes color to Green. The reader will send the RF card data to the controller then the LED will change color to Red again for the next reading.
- 7-3. LED Control:
To change the LED colors, you may connect the LED Control Input (Yellow wire) to ground and the Green LED will turn on indicating that the reader is in standby mode. Present proximity card and the LED will change color to Red then Green again for the next reading.
- 7-4. Beeper Control:
In normal operation, the reader generates one beep when it reads a proximity card, however additional beeps can be generated to improve indication for access status (granted or denied) by forcing the beeper control input (Blue wire) to system ground level. The beeper will remain on as long as the Blue wire is connected to system ground.

8. FCC REGISTRATION INFORMATION

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 A Digital Device**, pursuant to **Part 15 of the FCC Rules**. These limits are designed to 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 radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on another circuit.
4. Consult the dealer or an experienced radio/TV technician for help.

9. Warranty and Service

The following warranty and service information applies only to the United States of America and Republic of Korea. For the information in other countries, please contact your local distributor.

To obtain in or out of warranty service, please prepay shipment and return the unit to the appropriate facility listed below.

IN THE UNITED STATES

RF LOGICS Inc. Service Center
3026 Scott Blvd.,
SANTA CLARA, CA95054
Tel.: (408) 980-0001
Fax.: (408) 980-8060
E-mail: rflogics@rflogics.com
Web-site: www.rflogics.com

OUTSIDE OF THE UNITED STATES

ID TECK CO., LTD. Service Center
5F Ace Techno Tower Bldg.,
684-1 Deungchon-dong, Gangseo-gu,
SEOUL 157-030, KOREA
Tel.: +82 (2) 659-0055
Fax.: +82 (2) 659-0086
E-mail: webmaster@idteck.com
Web-site: www.idteck.com

Please use the original container, or pack the unit(s) in a sturdy carton with sufficient packing to prevent damage, include the following information:

1. A proof-of-purchase indicating model number and date of purchase.
2. Bill-to address
3. Ship-to address
4. Number and description of units shipped.
5. Name and telephone number of person to contact.
6. Reason for return and description of the problem.

NOTE: Damage occurring during shipment is deemed the responsibility of the carrier, and claims should be made directly to the carrier.