

# User Manual

supplier : Infell

Material Nam : RF-18, RF-18-X

Customer part number: RF433M-21K

Sample delivery date: 2024-03-27

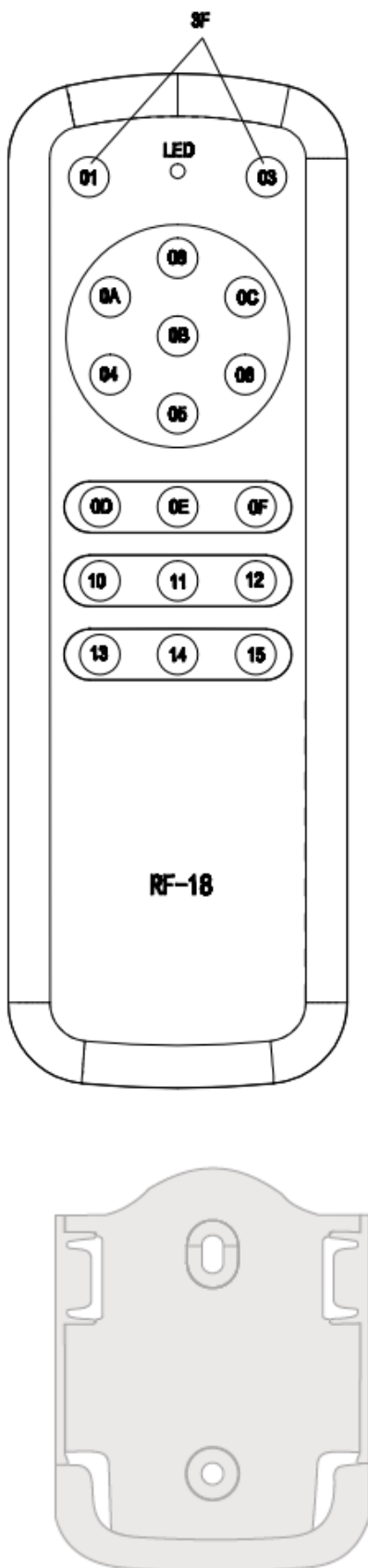
Acknowledgment column	supplier	make	QC	to examine	signature
	customer	Certified Engineer	to examine	approval	file

Resume
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[illegible]

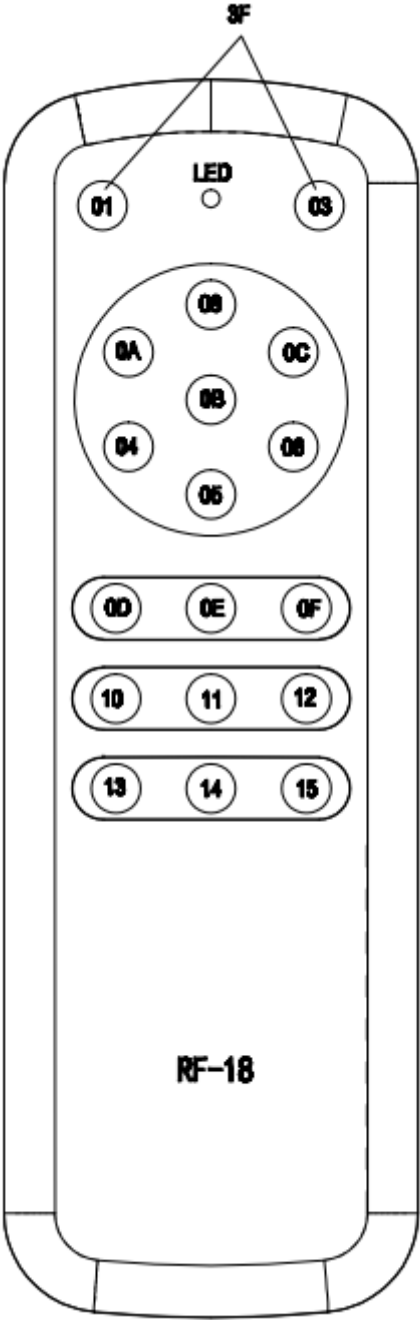
customer		SPECIFICATION	model	RF-18, RF-18-X
Name	RCU		CUSTOMER PART NO	RF433M-21K

1. Remote control appearance diagram:

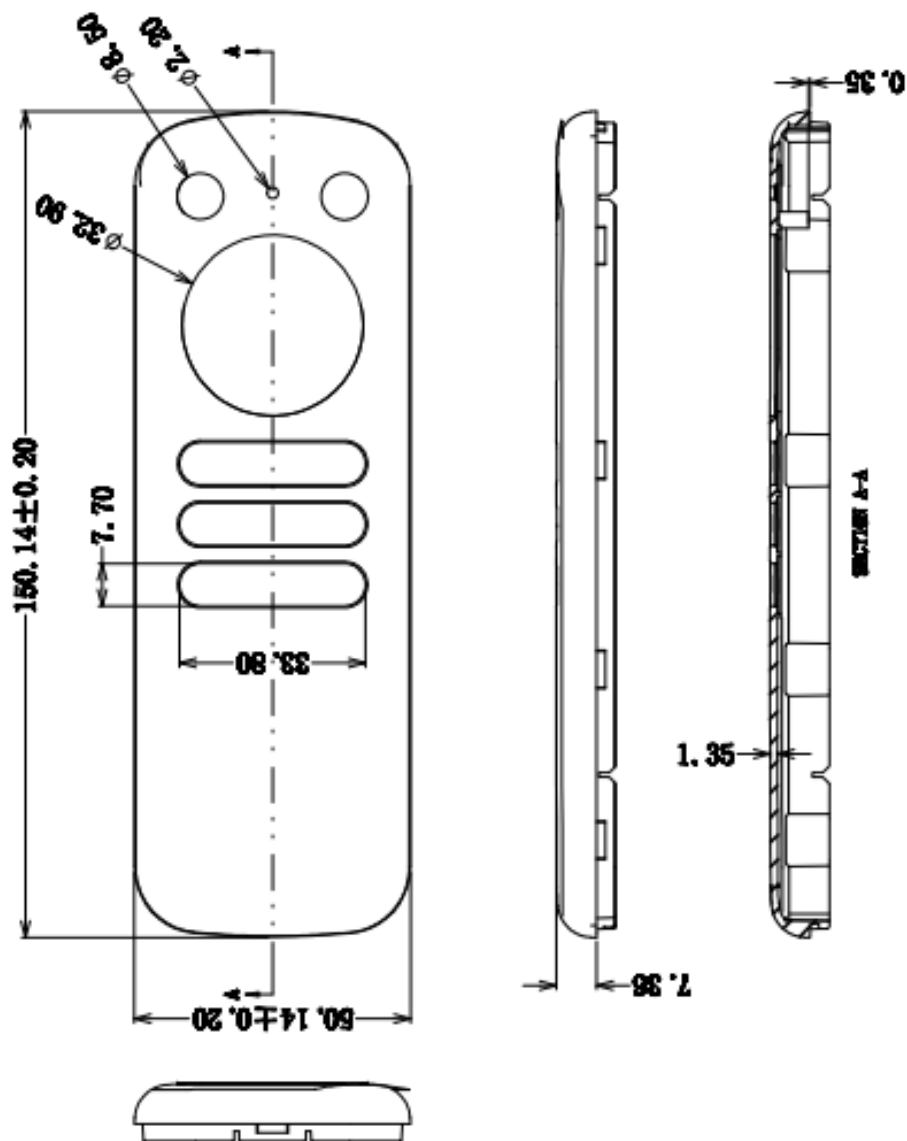


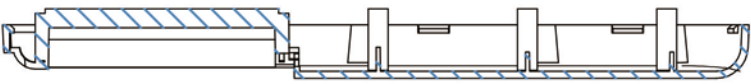
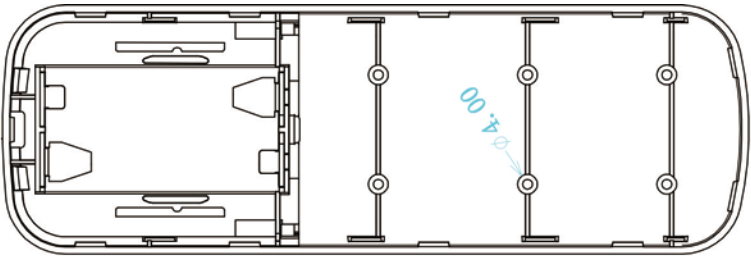
customer		SPECIFICATION	model	RF-18, RF-18-X
Name	RCU		CUSTOMER PART NO	RF433M-21K

2. Remote control code value diagram:

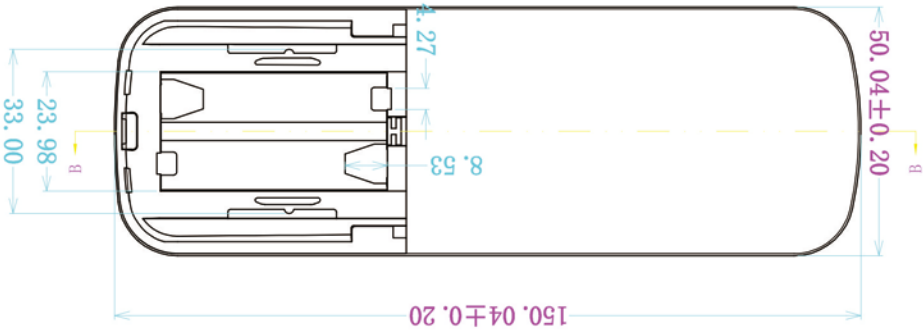
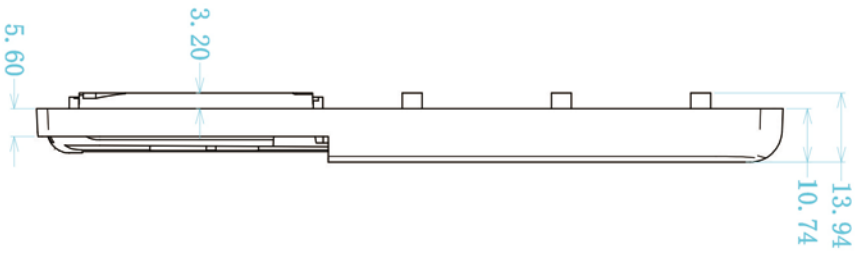


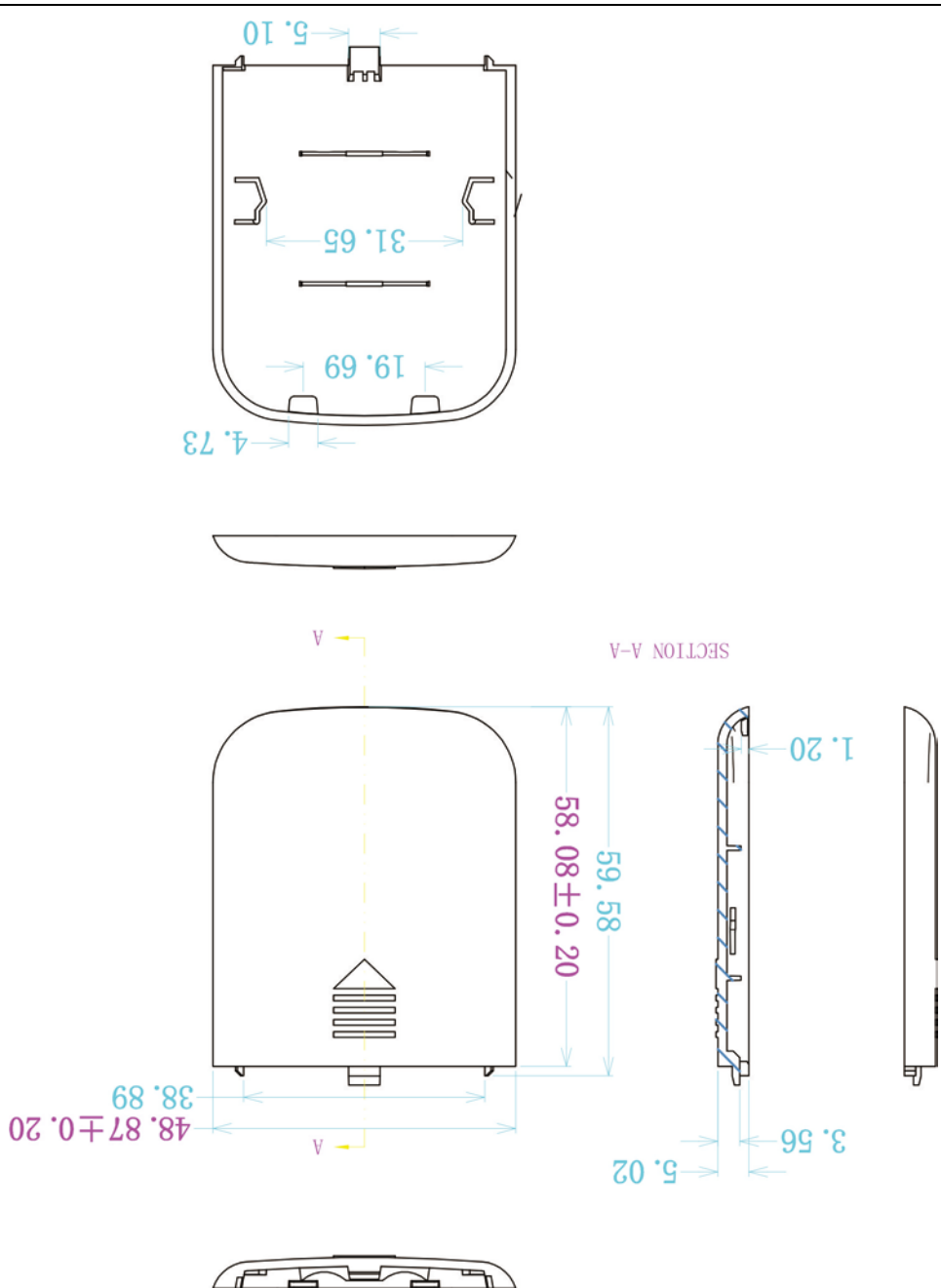
### 3: Remote Control Dimensional Drawing

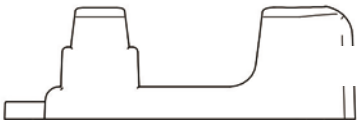
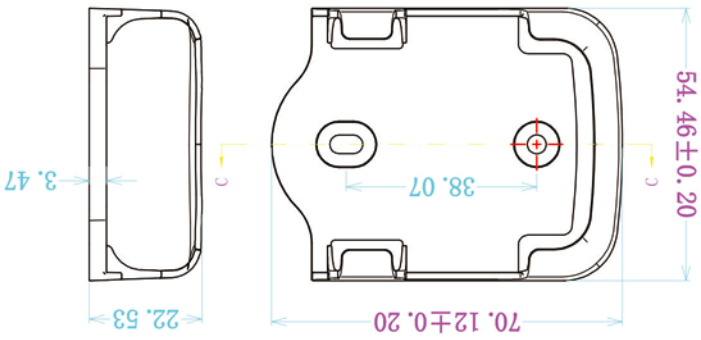
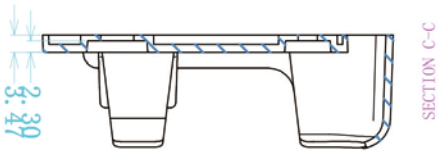
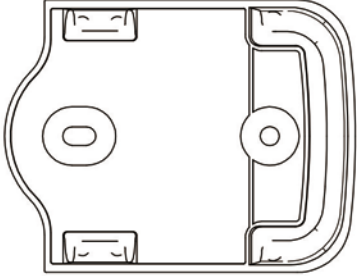
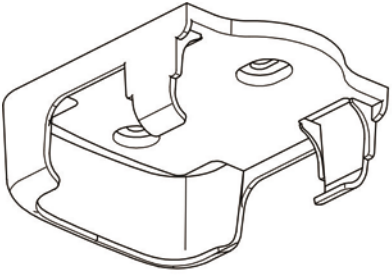




B-B NO113CS









customer		SPECIFICATION	model	RF-18, RF-18-X
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4.1: Technical specifications and standards for remote controls

433.92MHz Transmission Protocol Description

Logic 0: H:400  $\mu$  S, L:1200  $\mu$  S

Logic 1: H:1200  $\mu$  S, L:400  $\mu$  S

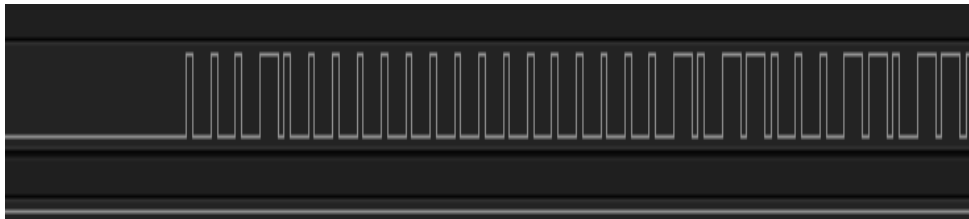
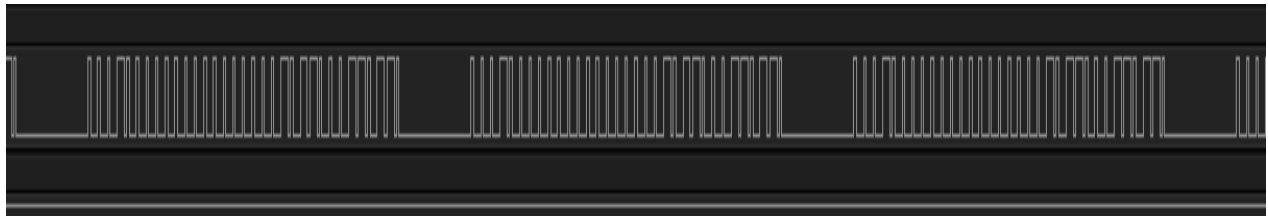
stop bit: H: 400uS

fixed interval L: 12MS ,Continuously resend the first frame

The code consists of 32 bits, and the ID code number is 16bit

Data structure: User code 1+User code 2+Data+Verification code+Stop bit, high bit first send.

The button emission is: the LED is constantly on, and when released, it goes out.



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#### 4.2: electrical characteristics

entry name	Parameter range	notes
4.2.01 ambient temperature	-25°C -60 °C	
4.2.02 relative humidity	< 90%	
4.2.03 storage temperature	-10-50°C	
4.2.04 atmospheric pressure	86-106Kpa	
4.2.05 Operating voltage range	DC2.3V - DC 3.3V	
4.2.06 Transmission frequency	433.92MHz	
4.2.07 quiescent current	≤3uA	
4.2.08 Working current	≤15mA	
4.2.09 Transmitting power	≤10dBm(3.6V)	
4.2.10 PCB circuit board material	FR-4	
4.2.11 Key load life	≥ 50000 times	
4.2.12 Electrostatic environment test	15KV	
4.2.13 free fall test	80cm 6 times	
4.2.14 PCB wiring line width and spacing	≥0.3mm	
4.2.15 Modulation	FSK	
4.2.16 Antenna Type	PCB Antenna	
4.2.17 antenna gain	-2 dBi	
4.2.18 battery	DC 1.5V*2	
4.2.19 Shell temperature resistance value	≤60 °C	

#### FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

FCC ID: 2BAREINF15013855051