

APOLLO Mini

RADIO REMOTE CONTROL

HANDBOOK DC version

Please read the handbook carefully before operation to avoid any dangerous or damage may be incurred



TABLE OF CONTENTS

1. Introduction	2
1.1 Features	2
2. Models.....	2
3. Transmitter	2
3.1 Technical data.	2
3.2 Indicator	3
3.3 Power on steps	3
3.4 Power off steps	3
4. Receiver.....	4
4.1 Technical data.	4
4.2 Indicator	4
4.3 Installation notes	5
4.4 Receiver installation.....	5
5. Trouble shooting-TX.....	6
6. Trouble shooting-RX	6
7. Parts list	7
8. Wiriing diagram	7
9. Warranty.....	11

1. INTRODUCTION

1.1 FEATURES:

1. Pocket-size transmitter, light ,more handy for operation.
2. ABS +PC transmitter housing, water/shock/dust proof.
3. Transmitter 2-4 functions equipped with a push type emergency STOP button .
4. Receiver with 4-LED, quick, simple judgement for operation status & after services.

2. MODELS

Mini 20	1 step, (2) buttons
Mini 30	1 step, (3) buttons
Mini 40	1 step, (4) buttons
Mini 60	1 step, (6) buttons

※ All models are equipped with RED EMS stop (push type)

3. TRANSMITTER

3.1 TECHNICAL DATA:

Operation distance: 30M (open space)
 Frequency : FM 418/433Mhz
 Output power : < 10mW
 Response time: 100mS
 Antenna: internal type
 Temperature: -10°C~+75°C
 Source supply:1.5V(AA)*2pcs or rechargeable battery
 Enclosure: IP65
 Material: Industrial ABS + PC
 Address code : 256 sets
 Weight : 95 g (excluding batteries)
 Size: 126x50x29mm



Unit : mm

3.2 INDICATOR:

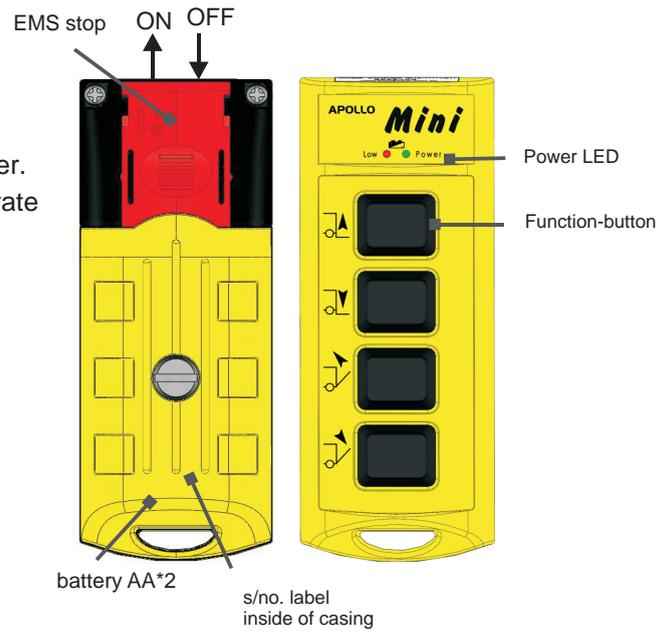
stand-by (power on)	RED/GREEN both indicators are NOT lighting (EMS ON)
operation	GREEN indicator light blinking
power low	RED indicator light blinking (when button pressed)
power off	Indicator lights off (EMS OFF)

3.3 POWER-ON STEPS:

- (1) Power on receiver.
- (2) PUSH up the RED stop button to power on the transmitter.
- (3) Press any button and release, now MINI is ready to operate (now receiver power LED lights GREEN)

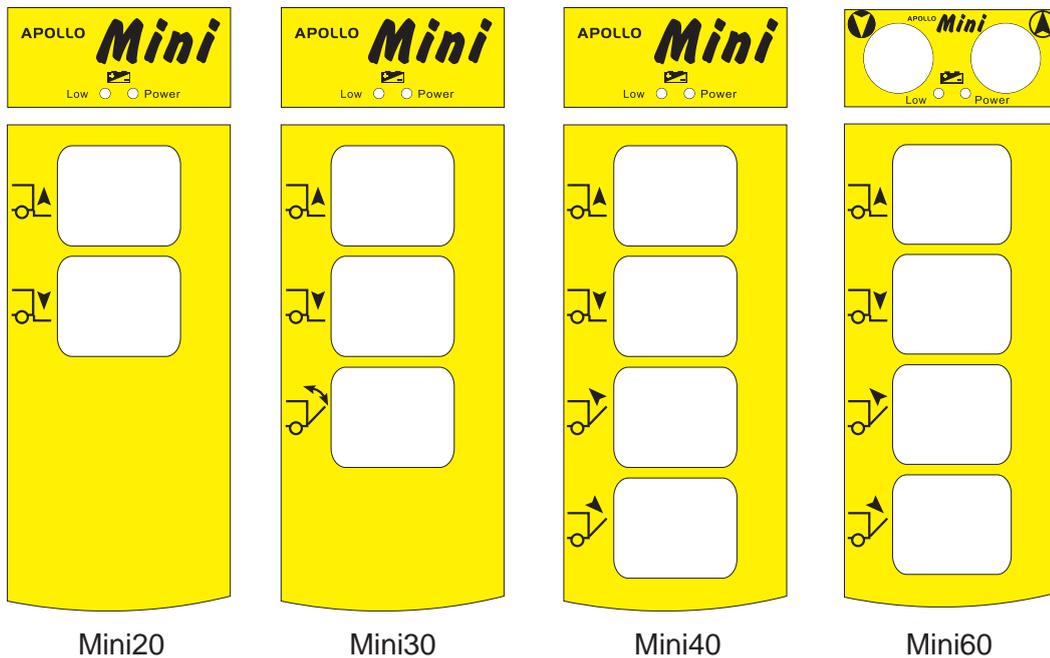
3.4 POWER-OFF STEPS :

- (1) Push down the RED stop button .



CAUTION: Please take out the batteries if long term period NOT operation.

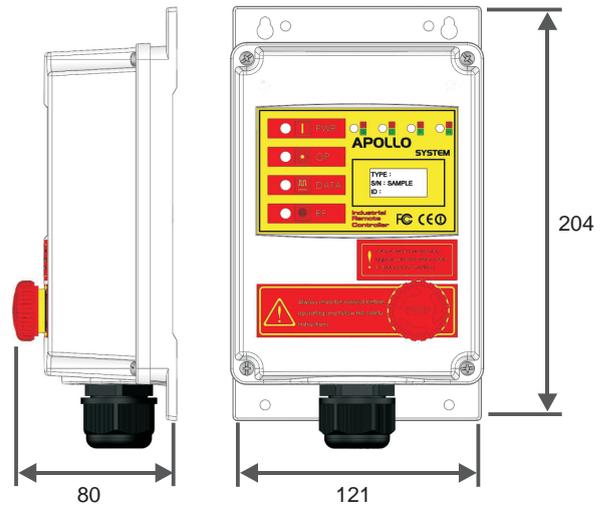
3.5 STANDARD MINI BUTTON LAYOUT:



4. RECEIVER

4.1 TECHNICAL DATA:

Frequency : FM 418/433Mhz
 Sensitivity of RF:-110dBm
 Antenna : internal type
 Operation Temperature : -10°C~+75°C
 Source Voltage: 9-30V DC
 Enclosure: Ip65
 Consumption: <12W
 Security Code: 256sets
 Weight: 740g (Including the 8 core cable, 2m)
 protection: short protection
 Color: Grey



BOX 1.2

4.2 INDICATOR:

illustration	description
	<u>Power LIGHT</u> Green lights when power on
	<u>Operation LIGHT</u> GREEN lighting when power on Light OFF when EMS stop pressed or power off
	<u>Data LIGHT</u> RED when buttons are pressed (in operation) OFF when buttons are released (without operation) RED light blinks slowly when data is incorrect RED light blinks fast when ID codes are incorrect
	<u>Frequency LIGHT</u> RED lights when TX is pressed (in operation) Light blinks slightly when buttons are released (without operation)

TX*: transmitter

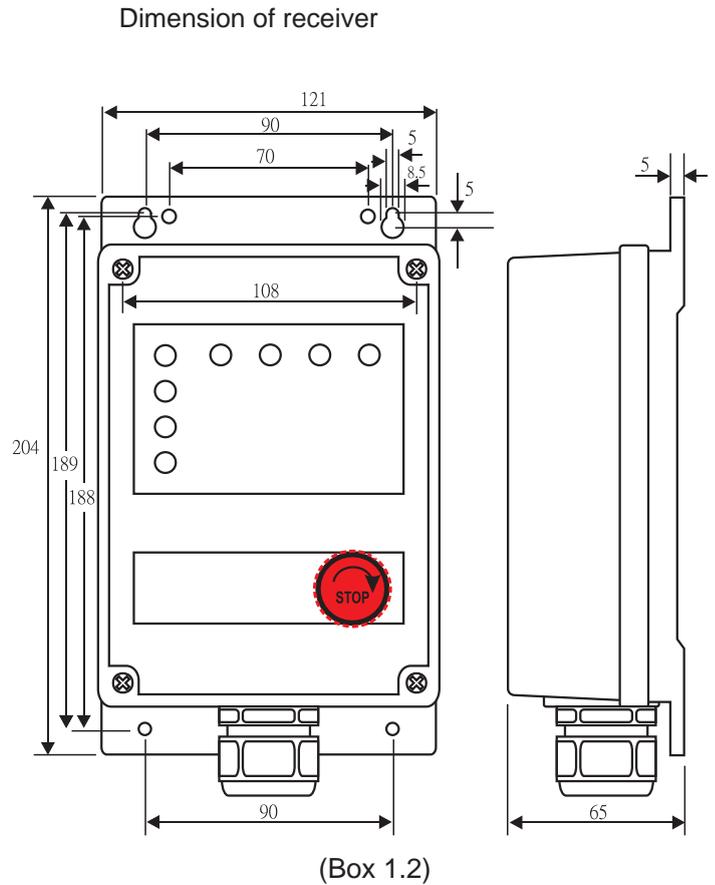


S/No. ID LABEL:

Each MINI unit has its own s/no. ID label which defines the device's type, ID, service number (S/No.), and channel. For any inquiry please advise your supplier the S/NO. for a faster service.

4.3 INSTALLATION NOTES:

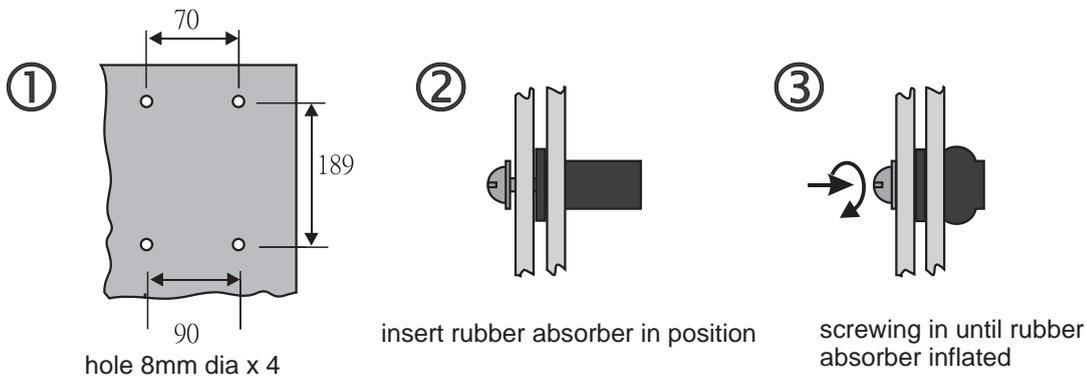
- (1) Ensure the original wired control of equipment works.
- (2) Shut down equipment main power source before installation.
- (3) Mount in a firm site where the receiver can be seen easily by operator.
- (4) Keep away the mounted site from motors relays, cables, high voltage wiring and devices, or the protrusion of building where crane moves.
Select a firm site without metal shield.
- (5) Ensure the wiring layout correctly and safely
- (6) Test each function to be sure each output has the same function as wired control
- (7) Put the wired pendant if has in safe position



⚠ CAUTION:

Please clean the EMS stop regularly at least every week to keep good condition

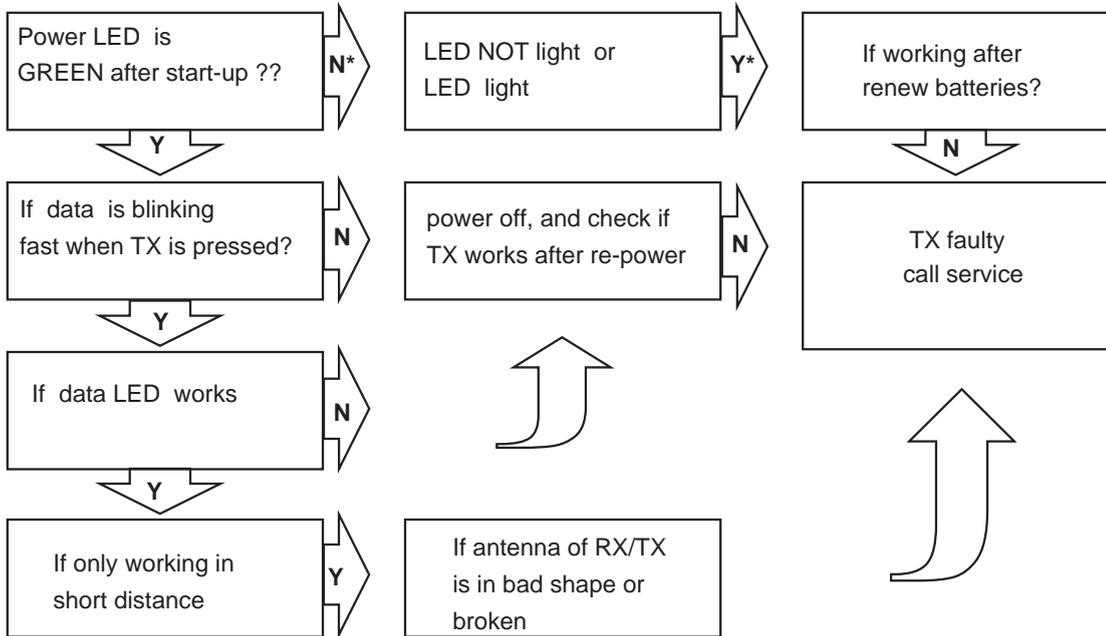
4.4 RECEIVER INSTALLATION ILLUSTRATION :



5. TROUBLE SHOOTING- TX

Please make sure the following status before trouble shooting.

- (1) The hoist or device is subject to control works
- (2) The TX outlook is in good condition without leakage
- (3) Receiver works

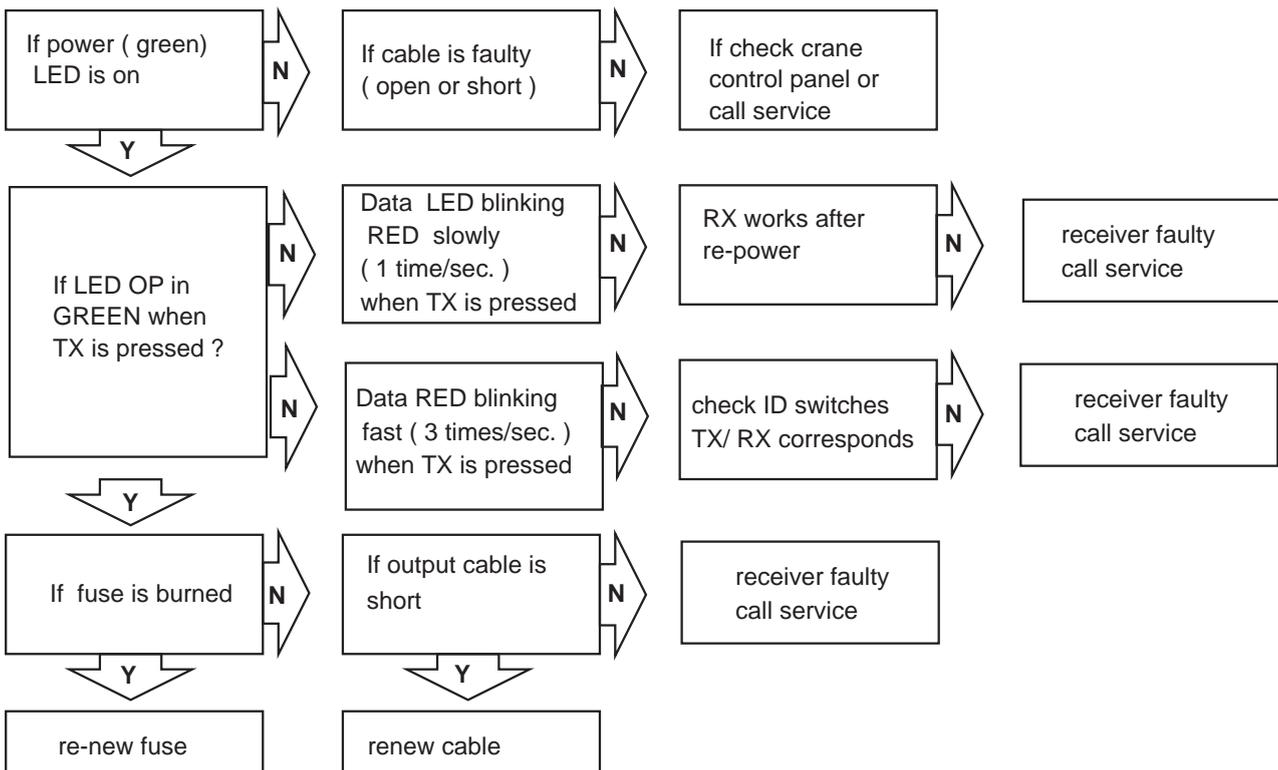


TX*: transmitter

6. TROUBLE SHOOTING- RX

Please make sure the following status before trouble shooting.

- (1) The hoist or device is subject to control works
- (2) The RX outlook is in good condition without leakage
- (3) Transmitter works



RX*: receiver

7. PARTS LIST

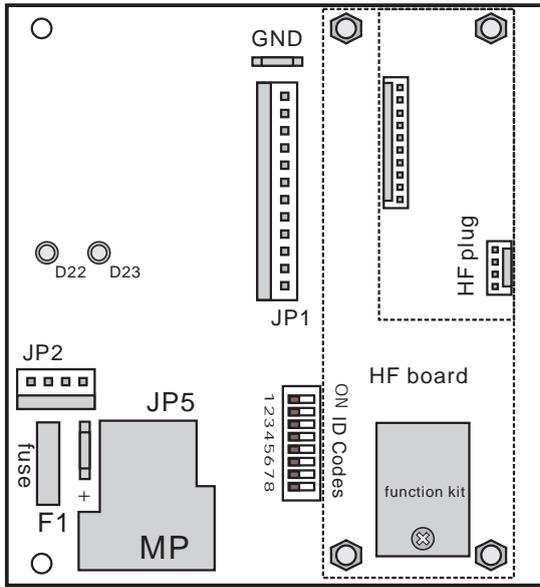
TRANSMITTER	
part number	description
MTC	transmitter casing (incl. RED stop, rubber pushbuttons,battery case)
MED-20	encoder board(Mini 20)
MED-30	encoder board(Mini 30)
MED-40	encoder board(Mini 40)
MSB	Nylon belt for transmitter
P01-M	Transmitter protection sleeve

RECEIVER	
part number	description
BOX1.2	receiver housing incl. cable gland
MDD-20-D	decoder board (Mini 20)
MDD-30-D	decoder board (Mini 30)
MDD-40-D	decoder board (Mini 40)
RFP	HF receiver frequency board
CAP8	cable 8 X 0.75mm ² x 1.8 M

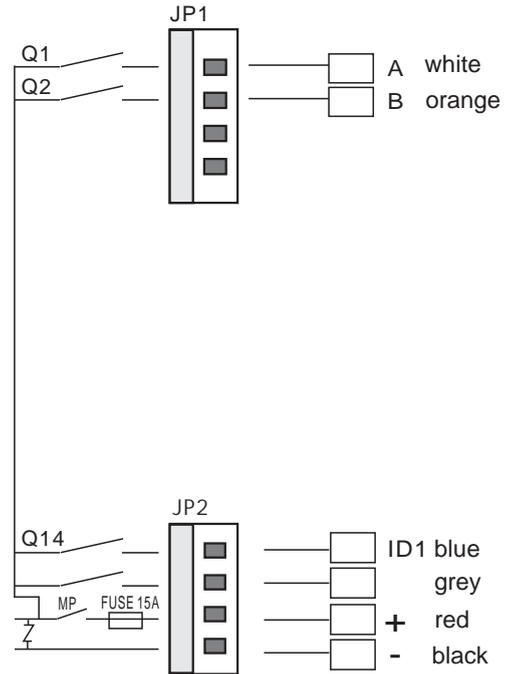
8. WIRING DIAGRAM

APOLLO mini 20 Installation Wiring Diagram

Encoder Board



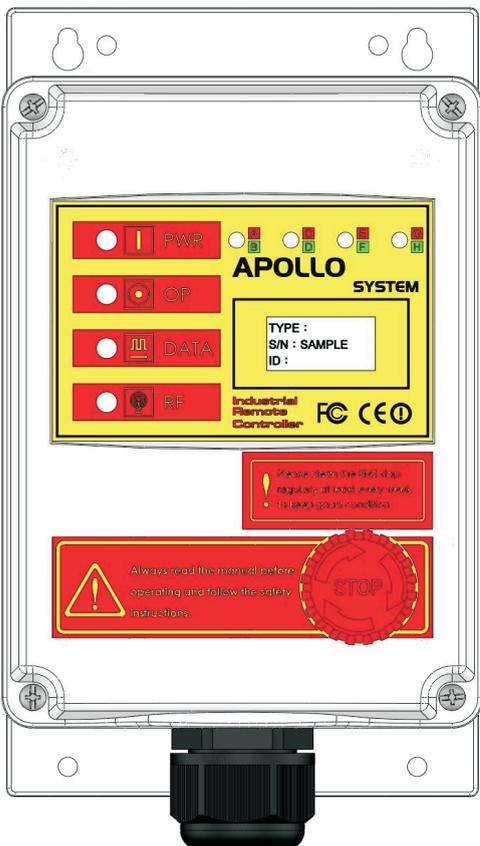
Internal wiring



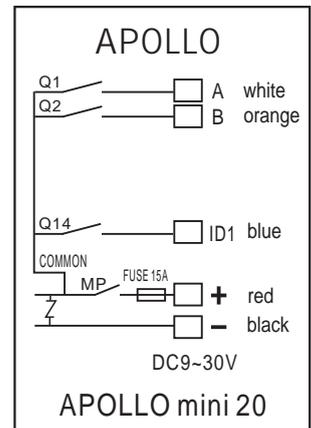
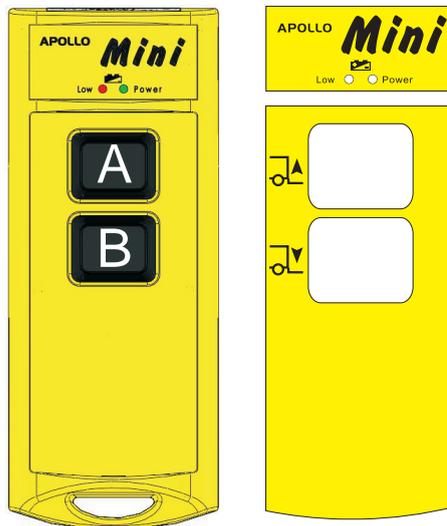
Features:

1. ID1 main relay is set for oil pump to be linked with each movement.
2. Furnished with control cable 2M long.
3. The printing illustration on the button can be custom made.
4. Each set of motion (ex.K1/K2) is set with interlock ex-work.

Receiver

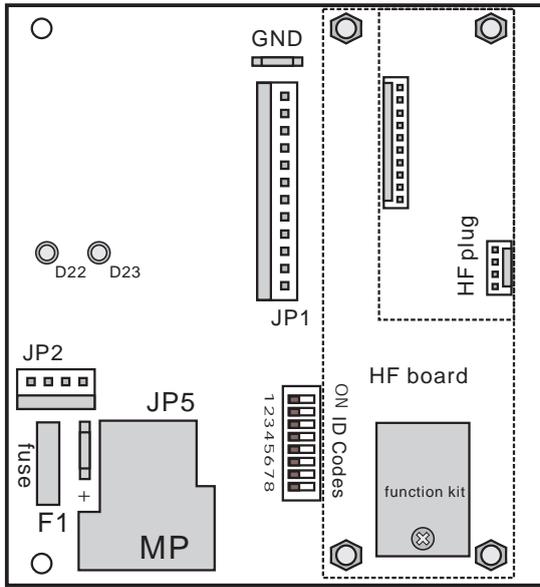


Transmitter

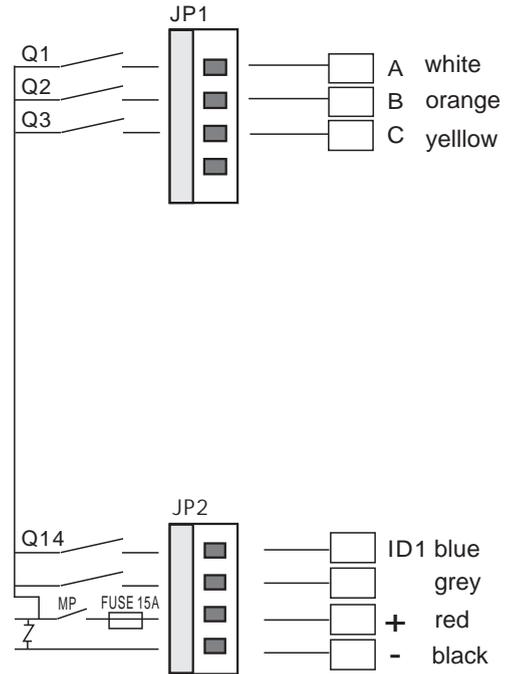


APOLLO mini 30 Installation Wiring Diagram

Encoder Board



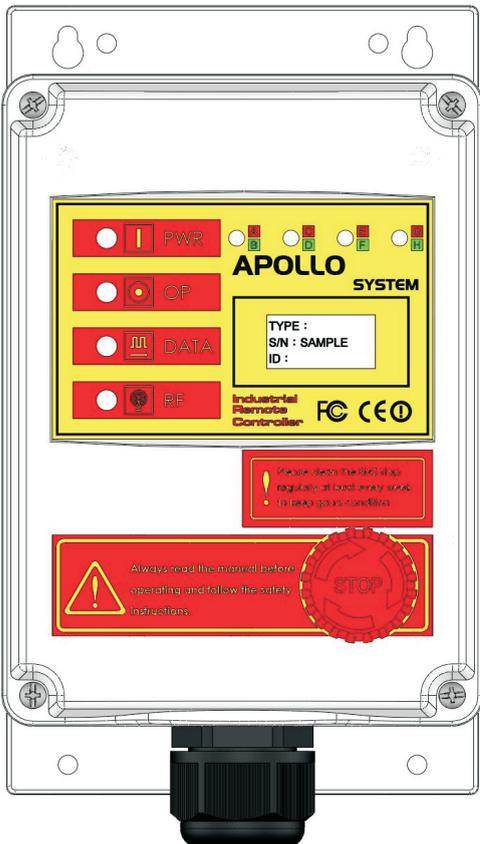
Internal wiring



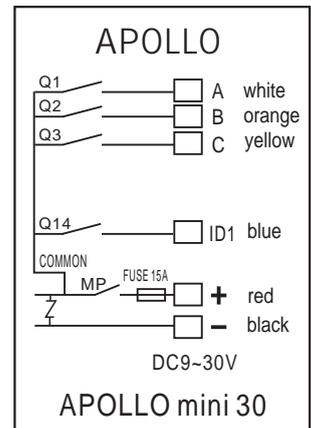
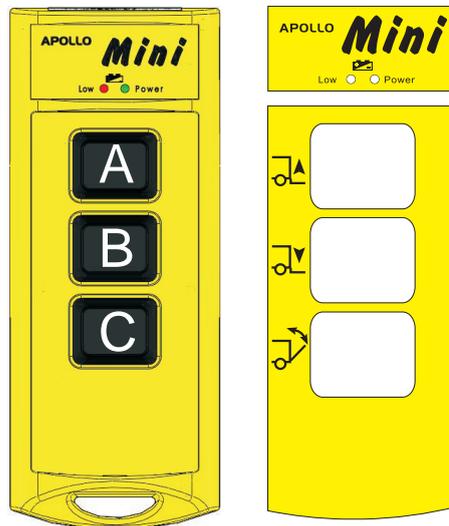
Features:

1. ID1 main relay is set for oil pump to be linked with each movement.
2. Furnished with control cable 2M long.
3. The printing illustration on the button can be custom made.
4. Each set of motion (ex.K1/K2) is set with interlock ex-work.

Receiver

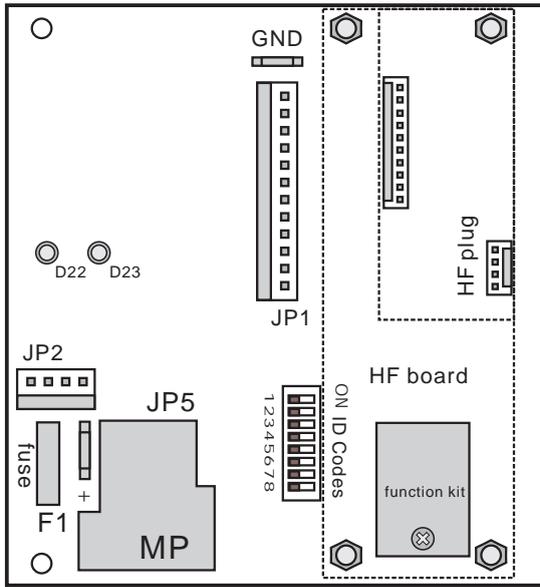


Transmitter

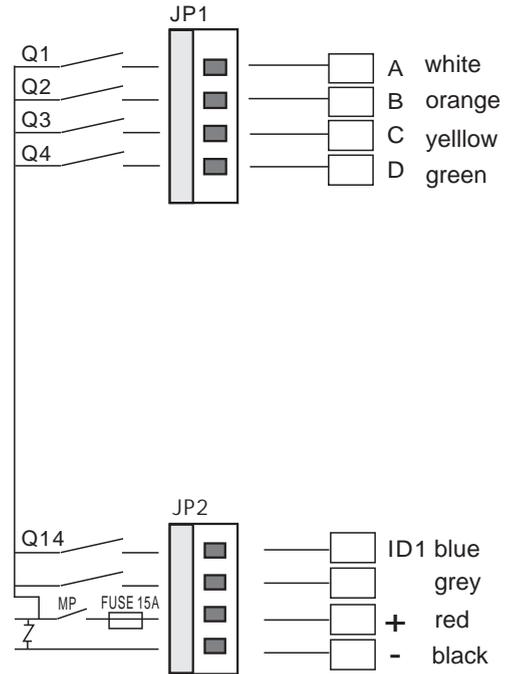


APOLLO mini 40 Installation Wiring Diagram

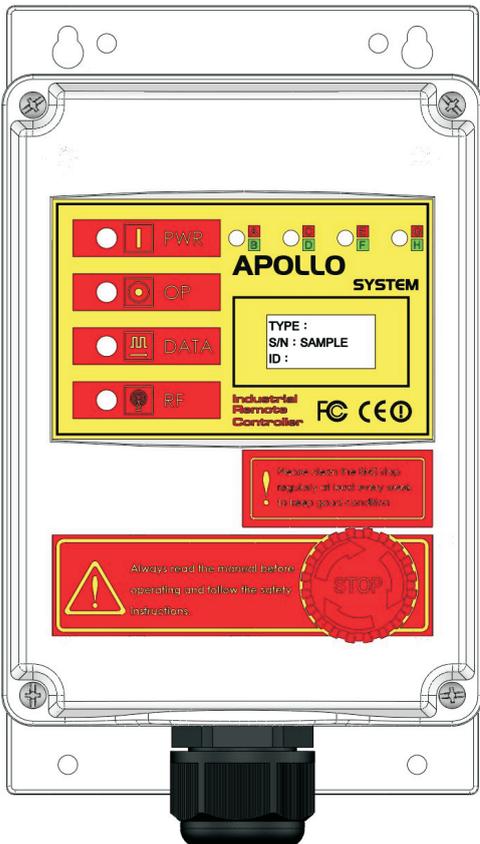
Encoder Board



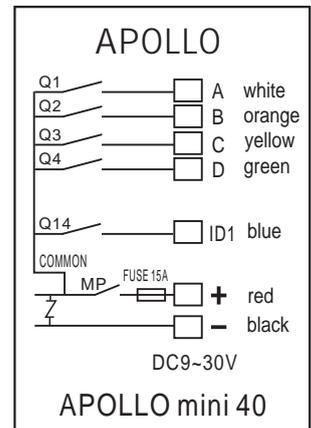
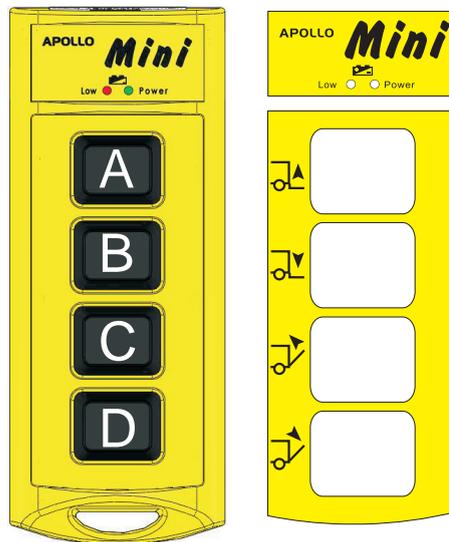
Internal wiring



Receiver



Transmitter



WARRANTY

The equipment is warranted for one year from date of purchase against defects in materials or workmanship provided it was purchased from 3-Elite or authorized dealer.

This warranty does not cover equipment which has been abused or damaged by careless handling or shipping, OR damaged by nature disaster such as earthquake, typhoon etc.

The careless handling including self-change components, antenna, voltage; or circuits, and switches increased would be deemed as end of warranty, user should cover the repairing fee.

Should any defect develop, we will, at our option, repair or replace any defective parts without charge for either parts or labour. If we cannot correct the defect in your equipment, we will replace it at no charge with a new one. We will pay for the cost of returning your merchandise to you.

This warranty applies only to items returned to us, shipping costs prepaid, within one year from the date of purchase.

distributor

STANDARD ACCESSORY

- | | | |
|--|---|---|
| <input type="checkbox"/> transmitter x 1 | <input type="checkbox"/> receiver x 1 | <input type="checkbox"/> handbook x 1 |
| <input type="checkbox"/> screw x 4 | <input type="checkbox"/> transmitter sleeve x 2 | <input type="checkbox"/> Nylon belt for transmitter x 1 |

