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OPERATION GUIDE

***Industrial
Radio Remote Controller***



FCC ID No.: PCSAPOLLO11282004

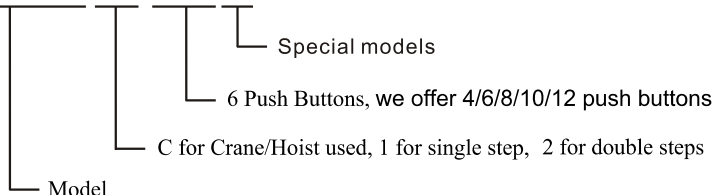


English Version

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APOLLO C1-6PB ☐



Note: The device complies with part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference , and
- (2) This device must not accept any interference received, including interference that may cause undesired operation.

The FCC require the user to be notified that any changes or modifications made to this device that are not expressly approved by 3e may avoid the user's authority to operate the equipment.

To comply with FCC RF exposure requirement, this device and its antenna must no be co-located or operating in conjunction with any other antenna or transmitter.



Introduction ☺

To satisfy various requests in remote controller, we are now finally researched a high quality, industrial grade remote controller --- APOLLO system. Provided from 4 to 12 push buttons, further on you can decide if taking with reserved functions or not, and really feel the convenience!

APOLLO system, a reliable, durable remote controller, which can be instead of the original wired control when the environment is too dangerous, something as electroplate field, steel factory, or the field temperature is too high. Of course, it can also raising the producing efficiency!

Except the dust / water / oil proof casing, APOLLO can even resist strong shock, or the extreme weather. Our professionalism surpass the original design, improved possible faults, the section assembled push button parts save lots of pennies from unnecessary spend, which can also easily up-grade to different models.

Your equipment does not have to adapt the remote controller, but it can really become an accessory! Once the transmitter housing has to be renewed, you can just exchanging the damaged section, but not the whole one. Only the reasonable spend can be accepted, in this point, we have considered thoroughly in APOLLO system.

Take instant fix holder, APOLLO receiver makes installation steps much faster and easier. The internal diagram / components scheme are hundred percent precision but not complex, easy to understand and repair, specially save time in periodic maintenance. Components have been placed into a tough control box, protection ups to IP65, contains dust / water / oil and ultraviolet, light weight, easy carry on, save energy and time in device installation.

Model Option ☺

Model No.	description
ONE STEP:	
C1-4PB	4 pushbuttons, w/ EMS stop button
C1-6PB	6 pushbuttons, w/ EMS stop button
C1-8PB	8 pushbuttons, w/ EMS stop button
C1-8PB/AB	8 pushbuttons , A/B hoist use, w/ EMS stop button
C1-8PB/AL	8 pushbuttons , alarm & light, w/ EMS stop button
C211	1 st line two steps, 2 nd , 3 rd one step, w/ EMS stop button
C1-10PB	10 pushbuttons, w/ EMS stop button
C1-10PB/AB	10 pushbuttons , A/B hoist use , w/ EMS stop button
C1-10PB/AL	10 pushbuttons , alarm & light , w/ EMS stop button
C1-12PB	12 pushbuttons, w/ EMS stop button
TWO STEPS:	
C2-4PB	4 pushbuttons, w/ EMS stop button
C2-6PB	6 pushbuttons, w/ EMS stop button
C2-8PB	8 pushbuttons, w/ EMS stop button
C2-8PB/AB	8 pushbuttons , A/B hoist use, w/ EMS stop button
C2-8PB/AL	8 pushbuttons, alarm & light, w/ EMS stop button
C2-10PB	10 pushbuttons, w/ EMS stop button
C2-12PB	12 pushbuttons, w/ EMS stop button



Technical Specifications ☺

- Take dual-security design, equipment protected thoroughly, every output will automatically break when CPU out of work.
- Take common mode non-earth ground EMI noise-rejection circuit, which can against receiver malfunction occurred by operator's error connection, also releasing the installation complex.

Transmitter Specifications ☺

Frequency range:

FSK 418Mhz (40channels)

FSK 433Mhz (20channels)

FSK 868Mhz (20channels)

Frequency controller by: Quartz crystals

Transmitting power: <10mW

Antenna: Internal type, impedance as 50Ω

Security codes: 256 sets

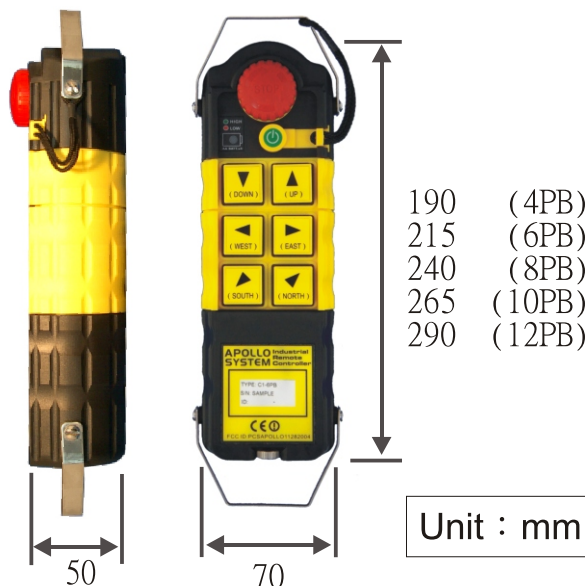
Operation temperature: -10°C~+70°C

Enclosure: IP65

Source voltage: 4xAA(1.5V)alkaline batteries
or nickel rechargeable batteries

Size: 215x70x50 (C1-6PB)

Weight: 488 (C1-6PB)



Status Indicator of transmitter ☺

APOLLO transmitter has a dual-color indicator (green*/red**) to show various status as follows :

Stand-by	green indicator light is blinking 1 time every 4 sec. (EMS is on)
operation	green indicator light is blinking 1 time every 1 sec. (EMS is on)
Power off	No indicator light is blinking. (EMS is off)

Green*: battery power is sufficient.

Red :** battery power low. Please re-new 4pcs of AA (1.5V) alkaline batteries,
or nickel rechargeable batteries immediately.



Our duty is ensure your safety, so you can rely on an excellent device

Receiver Specifications ☺

Frequency range:

FSK 418Mhz (40channels)

FSK 433Mhz (20channels)

FSK 868Mhz (20channels)

Frequency controller by: Quartz crystals

Transmitting power: <10mW

Antenna: Internal type, impedance as 50

Relay: 5A, 250V, AC

Operation temperature: -10°C ~ +70°C

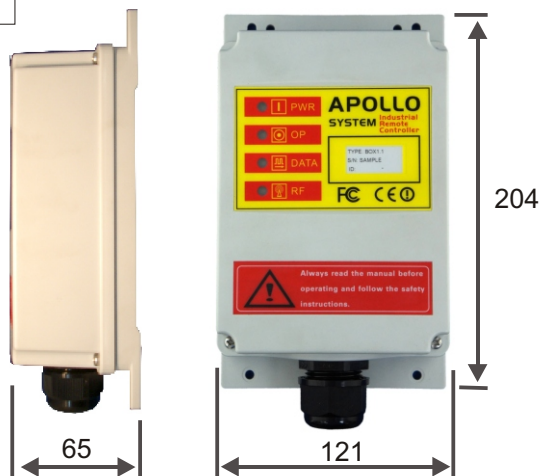
Enclosure: IP67

Source voltage: 110/220/380/415VAC, 50/60Hz

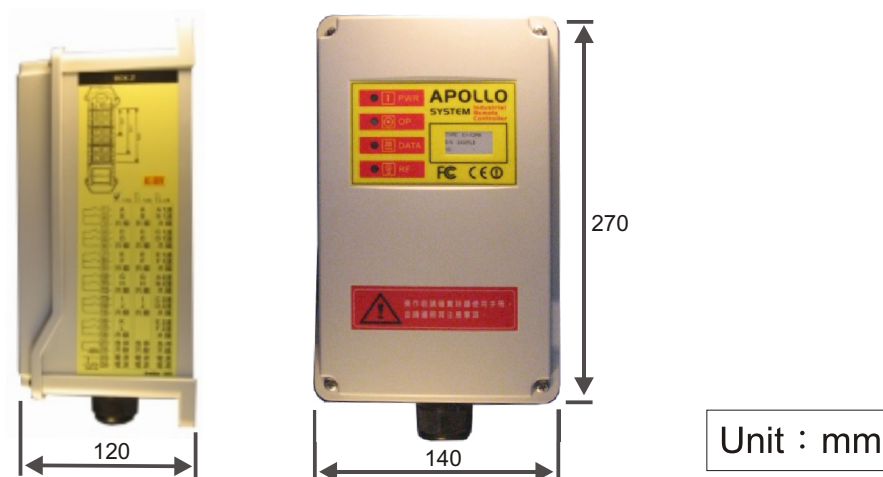
Size: 204x121x65mm (BOX1.1)

270x140x120mm (BOX2.1)

BOX 1.1



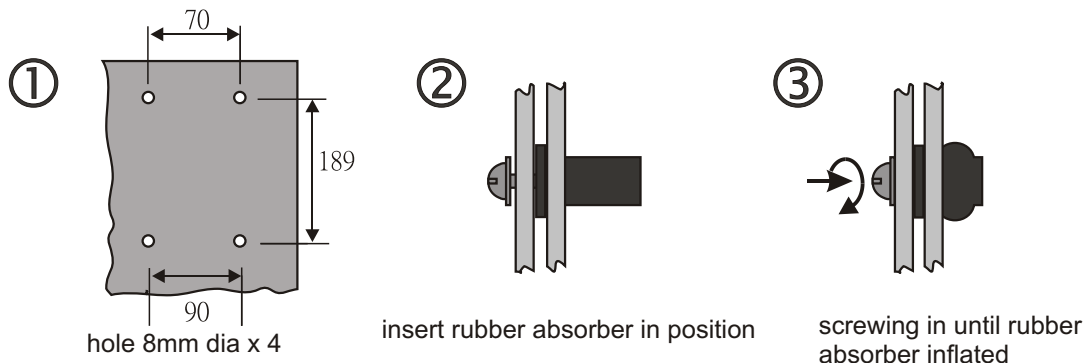
BOX 2.1



Auto shut down on Receiver ☺

APOLLO receiver could be set to shut down mode automatically, for higher security request, shorten S2.4 would make receiver shut down automatically after 5 minutes without operation (only setting ex-work on demand).

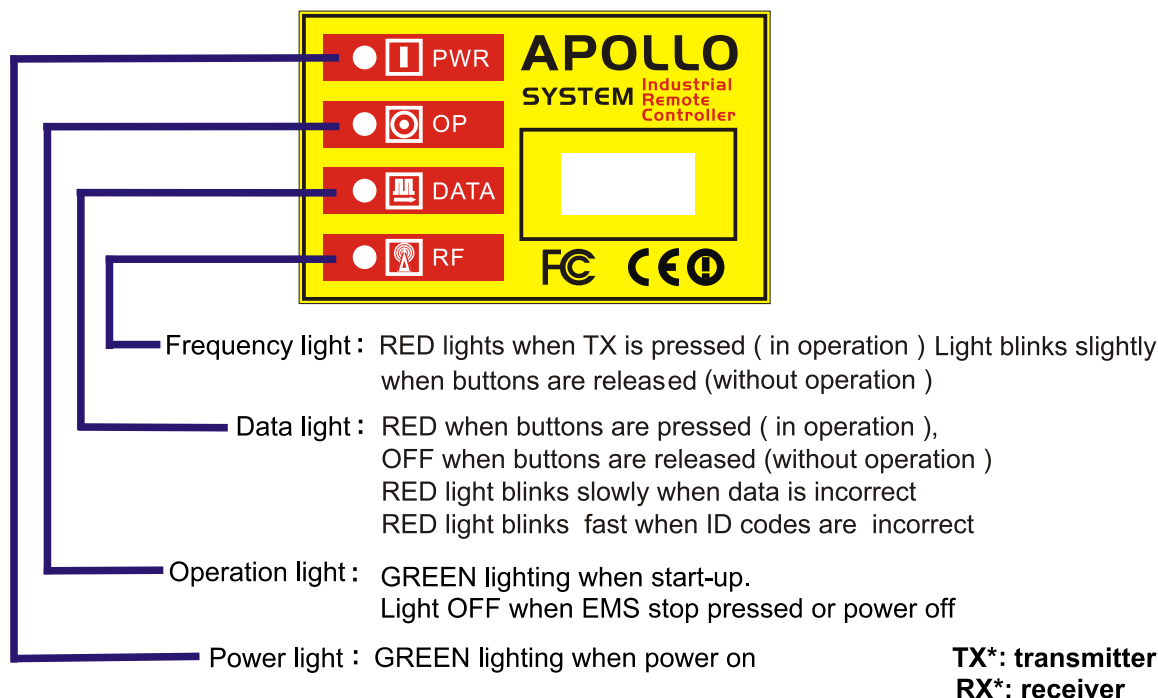
Receiver installation illustration :





Status Indicator of Receiver Box.1.1 and Box. 2.1 ☺

APOLLO receiver has a 4- indicator: power light, operation light, DATA light and RF light.
And the 4-LED indicator (green/red) also shows various status as follows:



Precaution ☺

- ✓ For safety consideration, complete training can only be offered / authorized to the operator.
- ✓ Please read thoroughly the operation manual before using APOLLO system.
- ✓ Regular maintenance / testing can extend the components' life, malfunction will also be found prior.
- ✓ Before operating the transmitter please check by power-on key, see if the battery power is sufficient. If not, please change a whole set of new battery. For a long term period without operation we suggest you to take out of the batteries.
- ✓ Do not try to change or move the internal components without authorization, please contact your supplier, or the professional engineer who has the experience in industrial remote controller for maintenance / repairs.

When the remote controller be struck by lightning, please stop operation and contact your supplier as soon as possible.

ID Label ☺

Every APOLLO system has its identification PC label, which defines the device's type, ID, service number, frequency and channel. For any inquiry please advise your supplier the service number for a faster solution.



How to install ☺

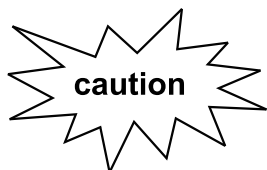
It would be very easy to install APOLLO receiver, the necessary tools are as following:

Long nose pliers diagonal cutting pliers cross head screwdriver
Hexagonal head wrench multimeter Electric drill Cable and feeder

Steps:

- (a) Ensure the original wired control of crane is correct.
- (b) Ensure shut down the main power source of crane before installation.
- (c) Mount in a firmed site where the receiver can be seen easily by operator.
- (d) Keep away the mounted site from motors, relays, cables, high voltage wiring and devices, or the protrusion of building where crane moves. Select a firmed site without metal shielding around.
- (e) Do not install the other same channel remote controller within 50 meters.
- (f) Ensure the wiring layout correctly and safely.
- (g) Test each motion / function after installation, ensure transmitter output have the same motion as the original wired control.
- (h) Fix the wired pendant in safe position.

Take 4pcs of 8mm tap screws,
screw tightly by electronic tools.



(fig. 1) (example for fix / install receiver)

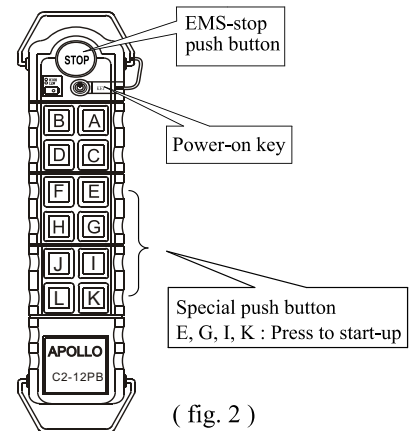
- (a) **Ensure the output contact as Main / A / B / C / D / E / F / G / H can not over 5A**
- (b) **Please double check exactly the wiring layout after receiver's installation, then turn the power on.**
- (c) **Please mount the receiver away from INVERTER, MOTOR and connected CABLE at least 3M to avoid interference happened**



Operation steps ☺

How to start up the Apollo device:

1. Power on receiver.
2. Insert the transmitter power-on key and turn on the “mushroom” EMS push button.
3. Press any button and release to start-up receiver.
4. Special pushbutton to start-up if required. (please refer fig. 2)
 - for Cx-6PB, press ‘ E ’ button and release to start-up receiver.
 - for Cx-8PB, press ‘ G ’ button and release to start-up receiver.
 - for Cx-10PB, press ‘ I ’ button and release to start-up receiver.
 - for Cx-12PB, press ‘ K ’ button and release to start-up receiver.



(fig. 2)

How to turn off the APOLLO device:

1. Press down the “mushroom” EMS push button (At this moment, the internal Main contact will be OFF).
2. Pull out the transmitter power-on key.
3. Shut down the receiver.

Function Setting : ☺

APOLLO system has complete setting software, which accepts different requests from customers. An extra Function Kit may be needed for custom-made settings. (See fig. 3)

NOTE:

- 1) The function setting program is available to operate under **Windows 2000 & XP & 7 Version**.
- 2) The function kit has to extra plug in the JP3 (DB 10 pin) on **RECEIVER** decoder (relay) board to work the function setting.
- 3) Operation steps:
 - Clip ‘ start ’ in Windows **System**
 - Select ‘ program ’
 - Select ‘ Apollo ’
 - Clip ‘ project – AP3 ’ ... set up program starts now

Every set of motion (A/B, C/D, E/F, G/H, I/J, K/L) all can be set function per customer’s Need. Function setting options are as the following: (See fig. 4)

- 1) Interlock – ex-factory setting, when pressing A and B simultaneously, no function output , this is for security reason.
- 2) Non-Interlock – For some occasions if the interlock is not necessary, just clip the ‘ non-interlock ’ function.



The above pushbuttons can also be set independently for the following functions :

- 1) Normal – Normal function, press button and RELAY is on, release button is off.
- 2) Toggle – Press Firstly is ON, press again is OFF, please note the function is only for 1st speed , 2nd speed is no such function.
- 3) Special – For some special application, such as for hoist 1st step and 2nd step is operated by two different motor, the special function setting can be set to SWITCH the first motor and second motor. And 1st step and 2nd step can set “ SWITCH DELAY TIME “ from 0.1~5 sec.
Or you may set two Trolleys (Trolley A/B) be operated by turns.
< using Toggle & Interlock setting >. (see fig.4)



Function Kit (fig. 3)

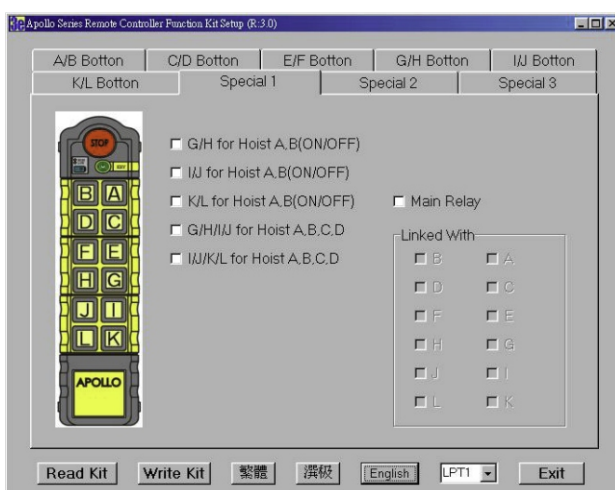
- 4) Main Relay “ linked with “ – Main relay can be set to link with movement relay, this function normally to apply on hydraulic system for oil pump use. (see fig. 5)

NOTE !!

Every set of motion (A/B, C/D, E/F, G/H, I/J, K/L) is interlocked to each other as ex-factory Setting. That means to press up/down simultaneously , there is no function output for security reason.



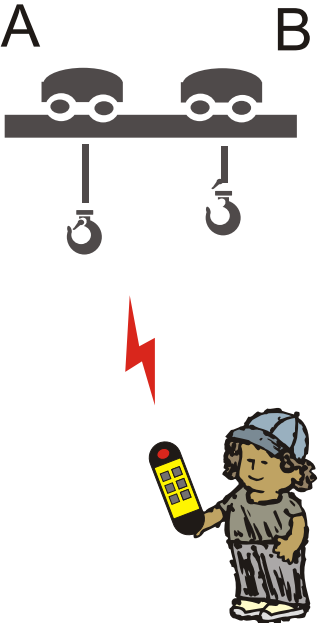
(fig. 4)



(fig. 5)



APOLLO Function Switch for Multi-Hoists:

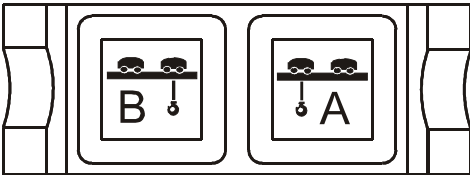


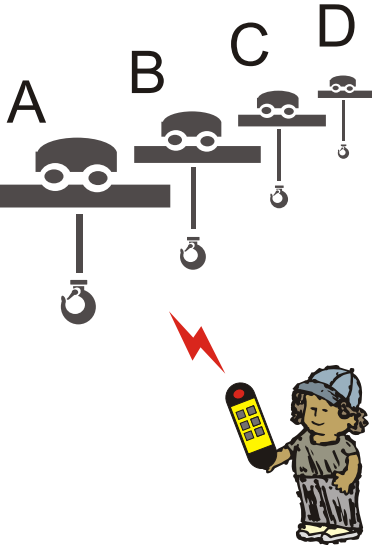
Function: A, B or A+B hoist function switch.

Operation:

- press button A, then corresponded relay A will keep hold (for hoist A), relay B will release.
- Press button B, then corresponded relay B will keep hold (for hoist B), relay A will release.
- Press button A and B together, then corresponded relay A and B both will keep hold.

Position: K7,K8;K9,K10;K11,K12



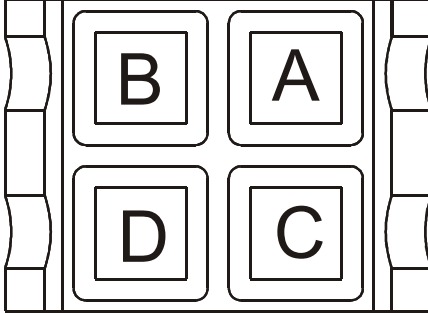


Function : A or B or C or D hoist function switch.

Operation:

Press button A or B or C or D, then corresponded relay A or B or C or D will keep hold.

Position: K7,K8,K9,K10;
K9,K10,K11,K12;





Trouble shooting ☺

We have come across problems that are not associated with wireless remote control unit but are crane/hoist or the device is subjected to control. Therefore it is essential that before trouble shooting, the problem is identified to be relating the wireless remote control unit.

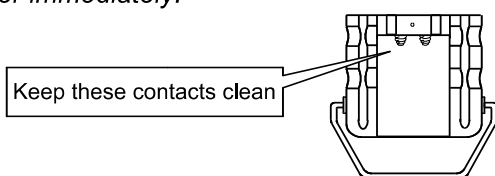
When malfunction occurs, please check APOLLO system per the following stating or the brief trouble shooting chart step by step, or contact your supplier if device still can not be operated normally.

- ✓ **IF: Press any push button in transmitter but there has no output, the indicator does not show..**
Possibility: Check if the power-key has been inserted.

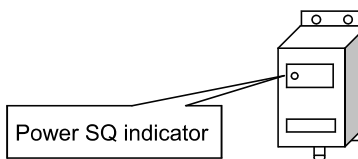
- ✓ **IF: The power-key has been inserted, but still has no output, the indicator also does not show..**
Possibility: Check if the EMS-stop push button has been pressed, if so, turn to " on ".
Under the normal operation, EMS-stop push button shall **not** be pressed down.

- ✓ **IF: The EMS-stop push button has been turned to " On " , the power-key is inserted, but still has no out ut the indicator does not show either...**
Possibility: Check if batteries have been inserted, or the power is sufficient. Renew a whole set of batteries and place with correct poles directions, and keep these contacts clean (see fig. 6).

Press push button and see if indicator is responded to blink as 1 time every sec. If no, contact your supplier immediately.



(fig. 6)



(fig. 7)

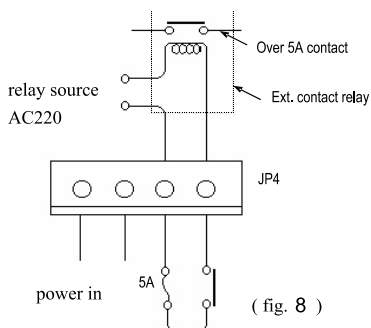
- ✓ **IF: Crane moves by itself, can not be controlled by both APOLLO and the original wired-control..**
Possibility: Malfunction occurs in crane. Please repair the crane.

- ✓ **IF: Power on the receiver, but power SQ indicator (see fig. 7) does not light...**
Possibility: Power has not been sent to receiver. Check if F2* fuse is burn and renew a 2 A fuse.

- ✓ **IF: Replaced a new 2 A fuse, but still be burn after power on...**
Possibility: Receiver's internal circuit has some problems. Please contact your supplier.

- ✓ **IF: F2* fuse has not been burn...**
Possibility: The power input has some problems. Check if the input voltage is correct, if the input voltage has no problem, find out the reason of abnormal voltage, or contact your supplier.

- ✓ **IF: The indicator of output Main contact has light, but its relay has no output...**
Possibility: The fuse of Main contact, F1 is broken. Renew another 5A fuse.



(fig. 8)

**Every fuse be taken shall not over 5A, if larger output contact current is requested, use another larger amp relay to control its relay.
(see left diagram)**

For example, if a fuse which over 5A be taken, it may cause Main output contact be melt as overheat, and can not break, this will cost much more in repairing.

Please do follow the trouble-shooting steps, or we shall have no direct/indirect duty for any of your property loss!



Spare Parts List ☺

APOLLO Transmitter		APOLLO Receiver	
Spare Part	Abbreviation	Spare Part	Abbreviation
Top casing (incl. EMS-stop button, Power-key, stainless steel hook)	TOC	Box 1.1 receiver casing – for C1-4PB, C1-6PB,C1-8PB, C211,C2-4PB used (incl. Nylon cable gland. Rubber shock-proof nut, 2pcs of instant fix holder)	BOX1.1
2 push buttons casing (incl. lase printed symbol & rubber cover)	2TH	Box 2.1 receiver casign – for C1-10PB, C1-12PB,C2-6PB, C2-8PB,C2-10PB, C2-12PB used (incl. nylon cable glands, Rubber shock-proof nut, 2pcs of Instant fix holder)	BOX2.1
4 push buttons casing (incl. lase printed symbol & rubber cover)	4TH		
Bottom casing (incl. battery case, Stainless steel hook)	BOC	Receiver High Frequency part	RFP
Transmitter battery cover	BOC -1	6/8 single-speed decoder & relay board	DD8
Transmitter battery case	BOC -2	12P single-speed decoder & relay board	DD12
Transmitter High frequency part	TFP	12P extensible decoder & relay board	RL122S
C1-4PB encoder board	ED41	Switching Power AC36V-48V	SP36-48
C1-6PB encoder board	ED61	Switching Power AC85V-265V	SP85-265
C1-8PB encoder board	ED81	Switching Power AC110V-440V	SP110-440
C1-10PB encoder board	ED101		
C1-12PB encoder board	ED121	Cable glands 25mm	MG25
C2-4PB encoder board	ED42	Cable 0.75mm ² X16	CAP16
C2-6PB encoder board	ED62	Cable 0.75 mm ² X24	CAP24
C2-8PB encoder board	ED82	Cable 0.75 mm ² X30	CAP30
C2-10PB encoder board	ED102		
C2-12PB encoder board	ED122	APOLLO Fitting	
C211 encoder board	ED211	Spare Part	Abbreviation
Nylon Belt for Transmitter	SB	External ANT. 1.5M	ANT
		16 pin instant connector	C16 P
		24 pin instant connector	C24P
		32 pin instant connector	C32P
		Charger 110-220V(DC12V)	APO-BC
		Rechargeable batteries	APO-BC-1
		Transmitter Holder	APO-HD
		Function to set IC	KIT
		Function to set the software suite	KIT-FC

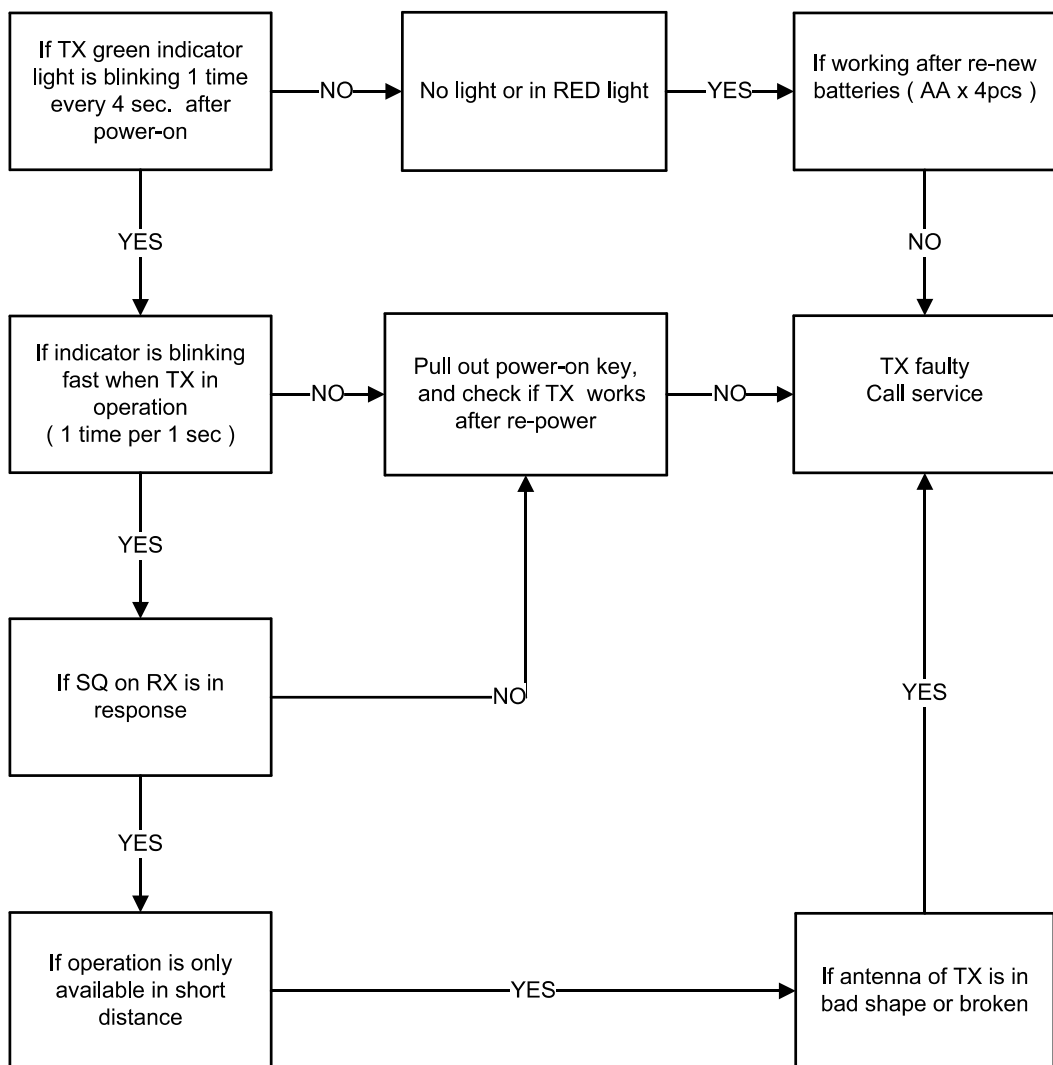


Apollo System- Transmitter (TX) General trouble shooting

NOTE:

Please make certain the following status before trouble shooting.

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



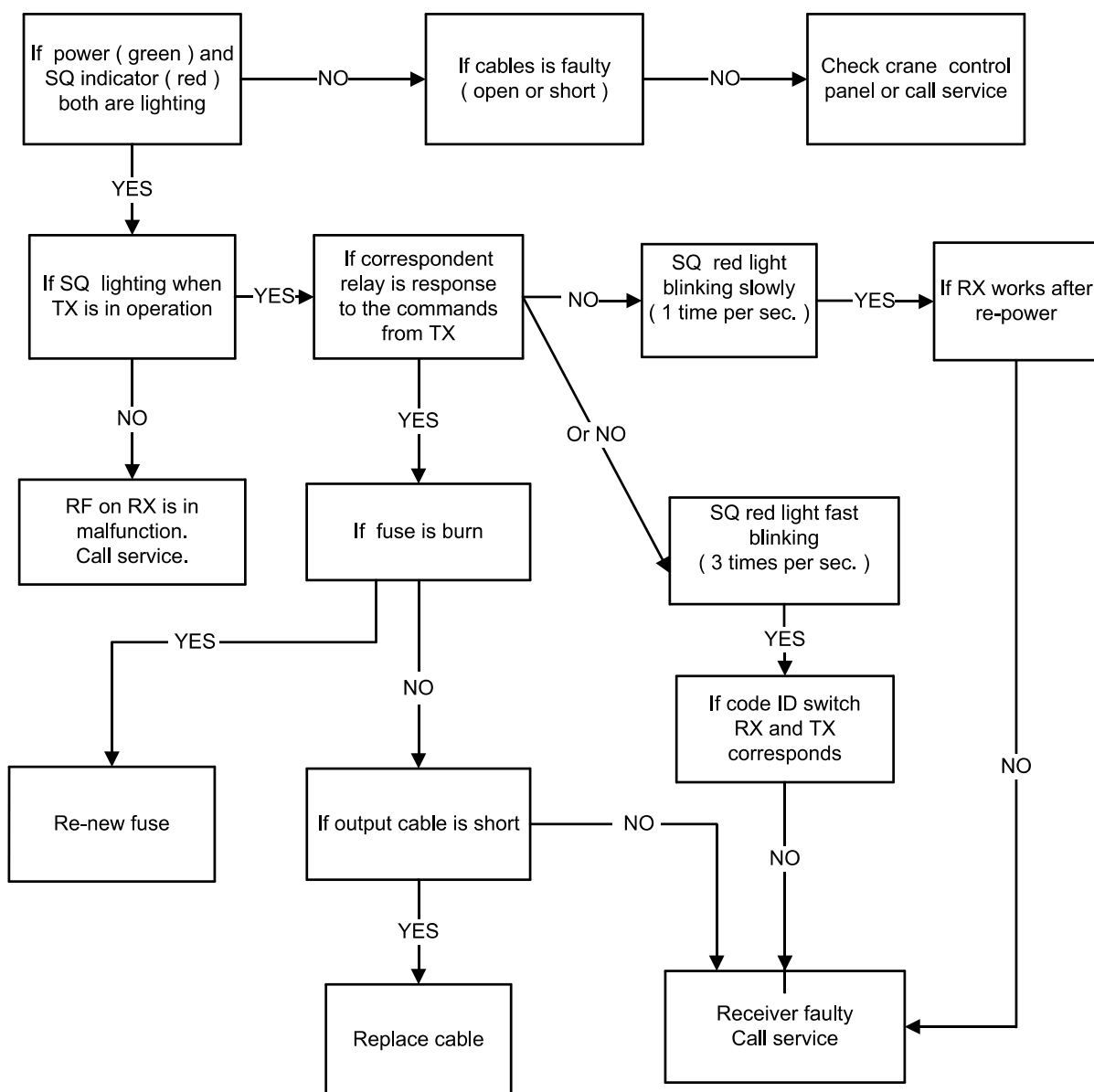


Apollo System- Receiver (RX) General trouble shooting

NOTE:

Please make certain the following status before trouble shooting:

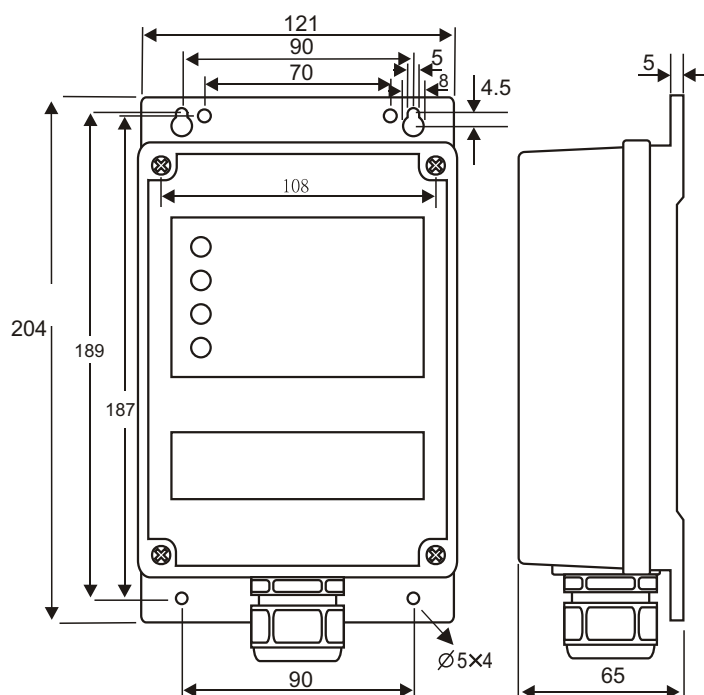
- (1) The crane or device being subject to control works.
- (2) The RX outlook is in good condition without any leakage
- (3) Transmitter works.



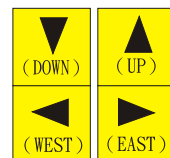
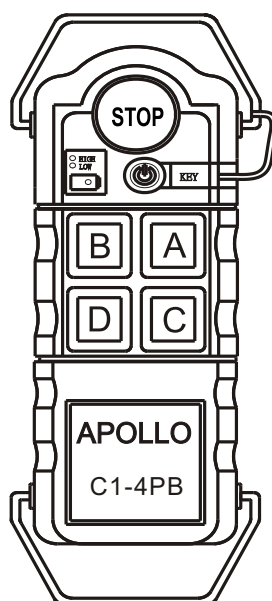
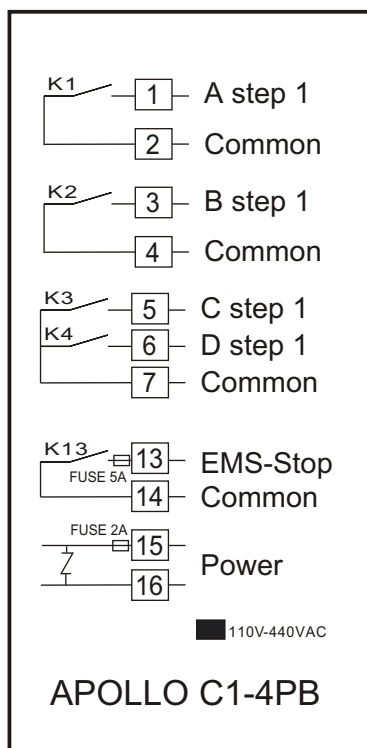
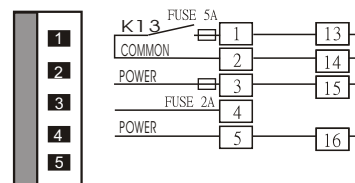
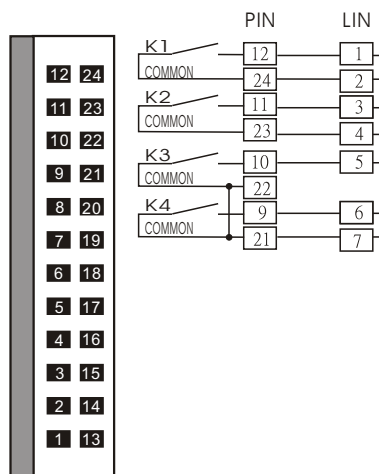


Our duty is ensure your safety, so you can rely on an excellent device

APOLLO C1-4PB installation wiring diagram



Wires Location in Decoder & Relay Board

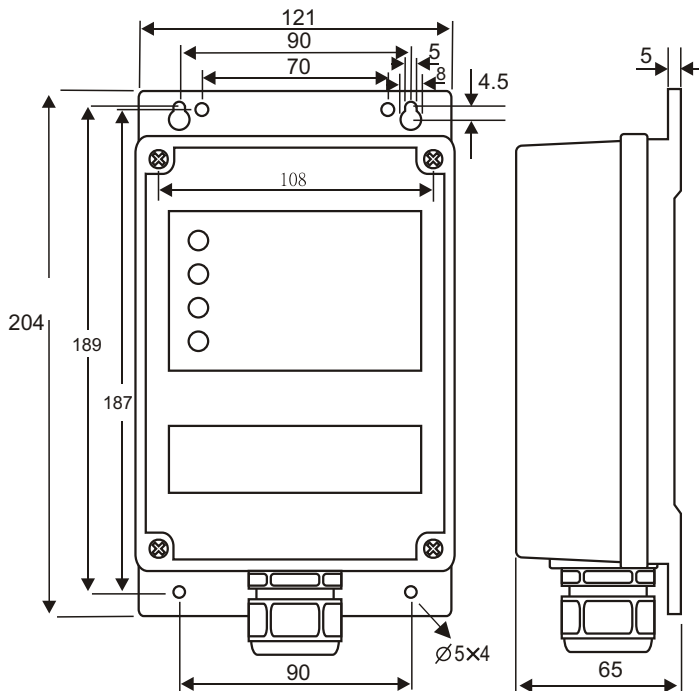


Button-legend
(custom-made on demand)

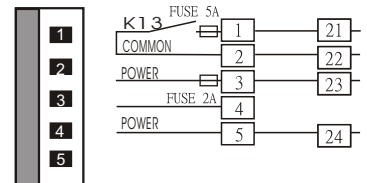
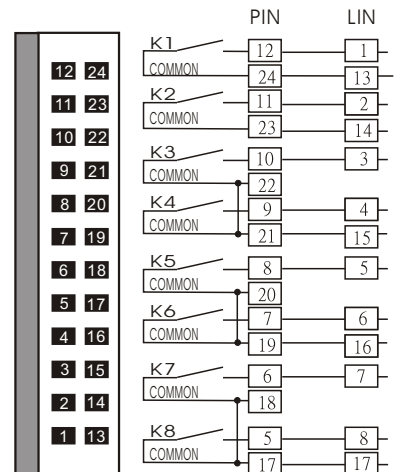


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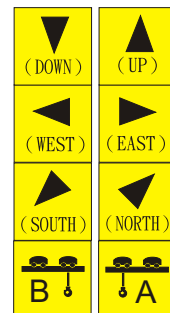
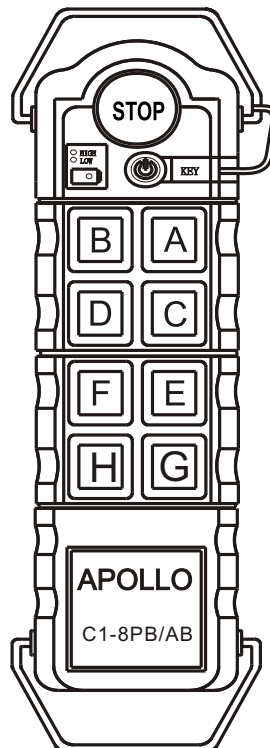
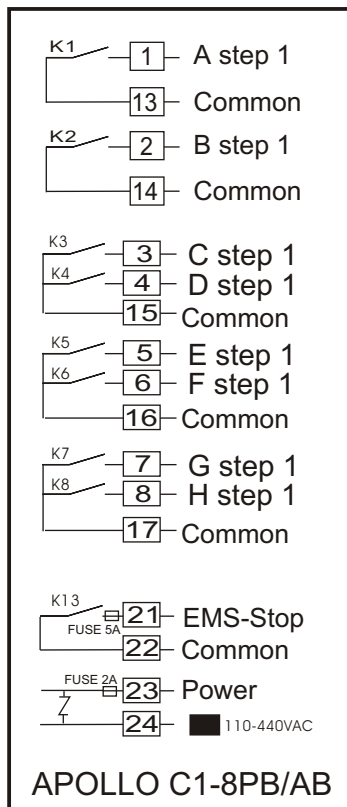
APOLLO C1-8PB/AB installation wiring diagram



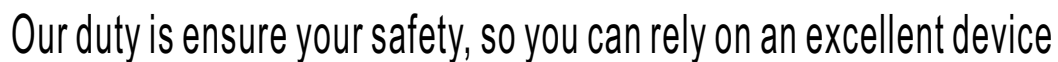
Wires Location in Decoder & Relay Board



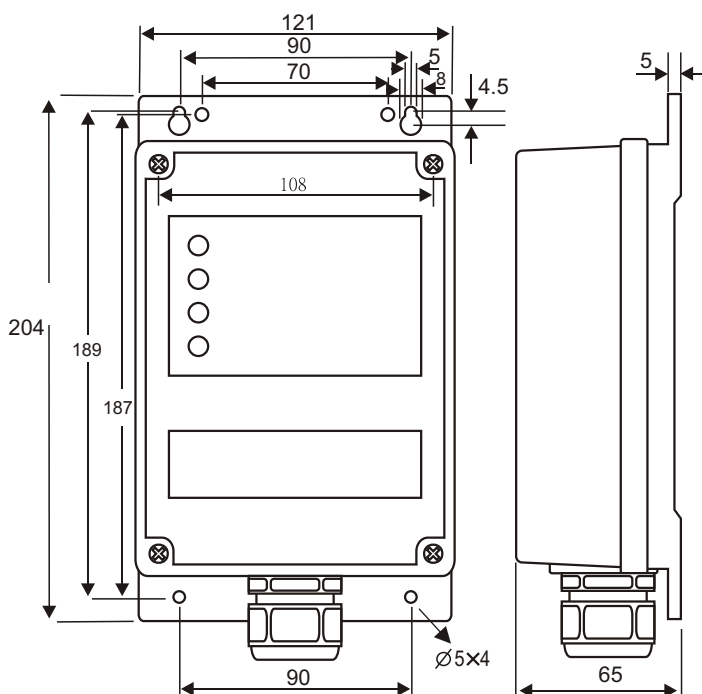
110V-440VAC



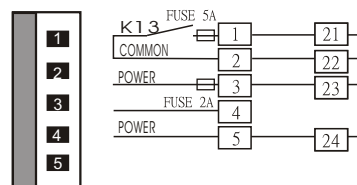
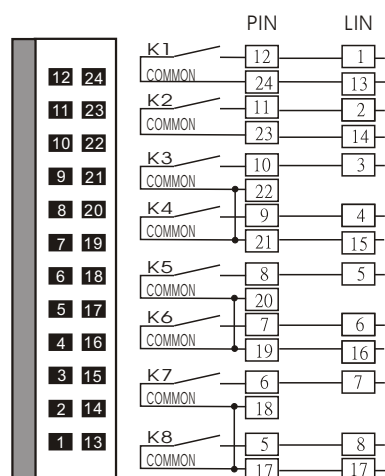
Button-legend
(custom-made on demand)



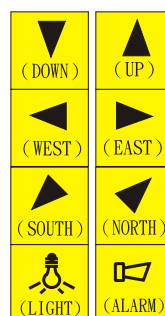
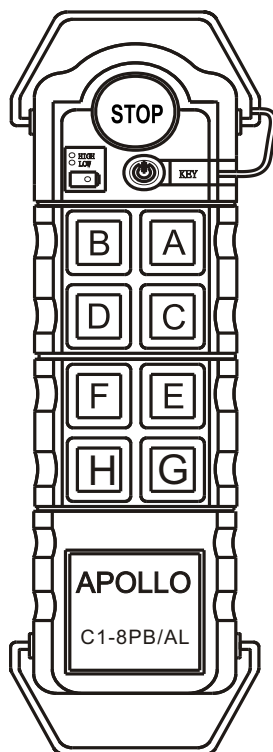
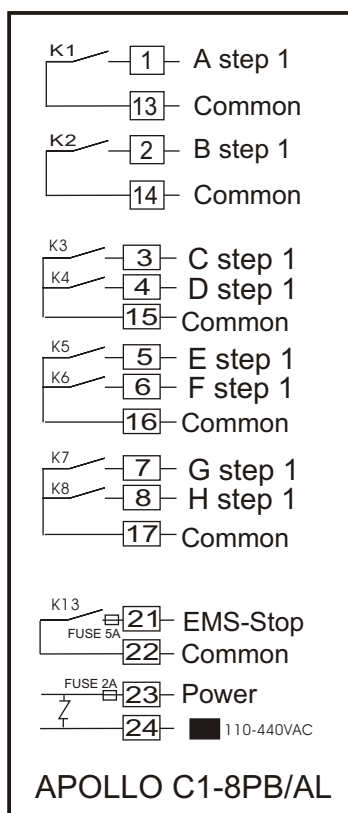
APOLLO C1-8PB/AL installation wiring diagram



Wires Location in Decoder & Relay Board



110V-440VAC

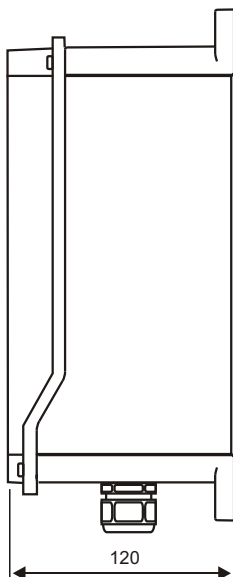
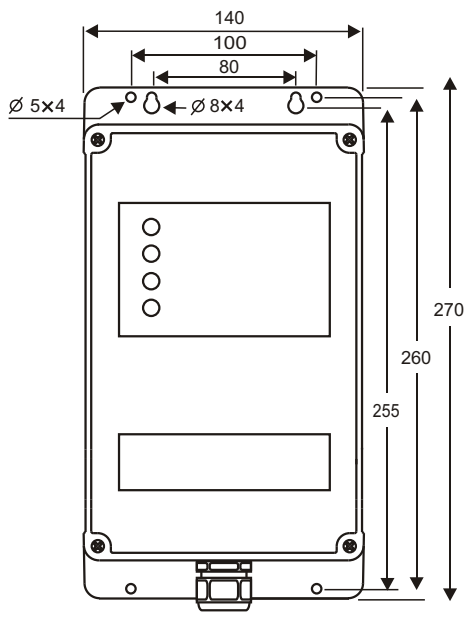


Button-legend
(custom-made on demand)



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APOLLO C1-10PB installation wiring diagram



F1 2A Power Fuse

F2 5A Main Fuse

K13 Main (stop)

K1 1ST step in A

K2 1ST step in B

K3 1ST step in C

K4 1ST step in D

K5 1ST step in E

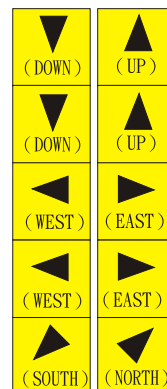
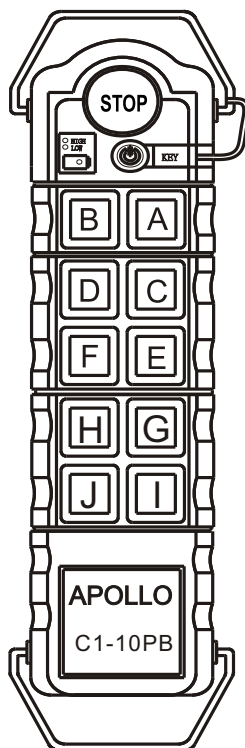
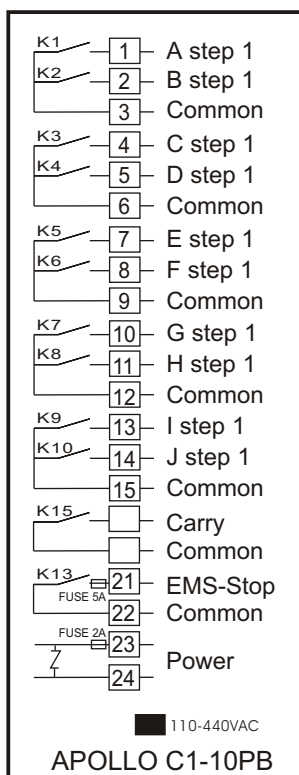
K6 1ST step in F

K7 1ST step in G

K8 1ST step in H

K9 1ST step in I

K10 1ST step in J

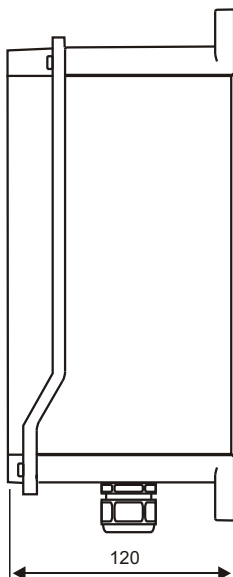
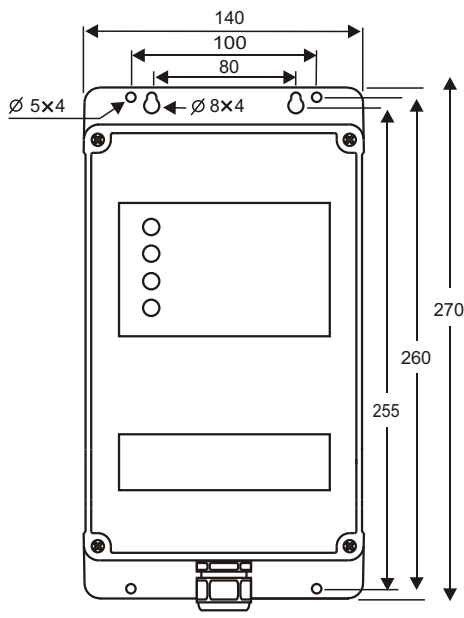


Button-legend
(custom-made on demand)



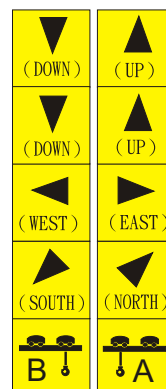
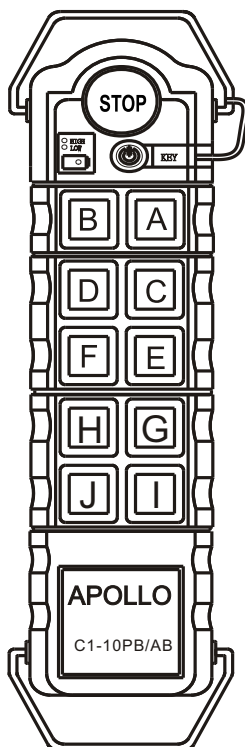
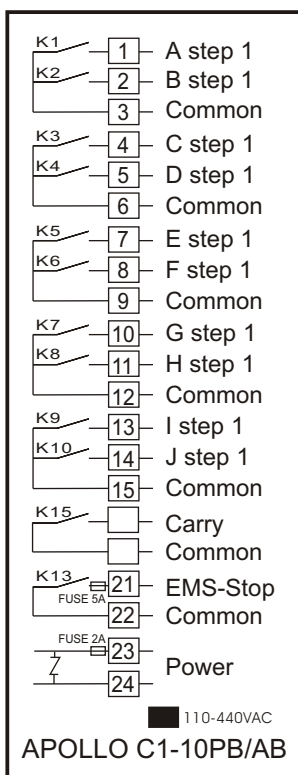
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APOLLO C1-10PB/AB installation wiring diagram



F1 2A Power Fuse
F2 5A Main Fuse

K13 Main (stop)
K1 1ST step in A
K2 1ST step in B
K3 1ST step in C
K4 1ST step in D
K5 1ST step in E
K6 1ST step in F
K7 1ST step in G
K8 1ST step in H
K9 1ST step in I
K10 1ST step in J

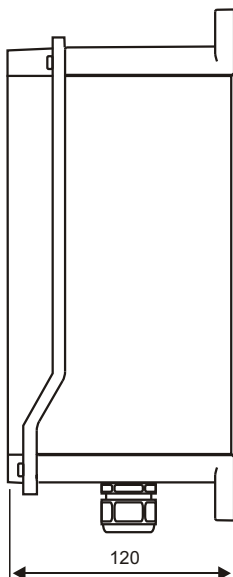
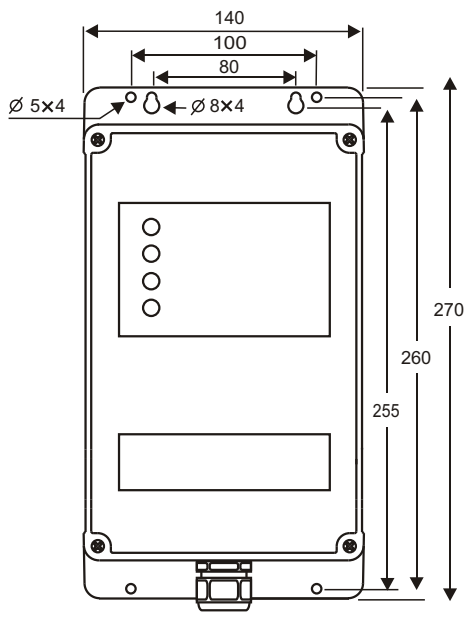


Button-legend
(custom-made on demand)



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APOLLO C1-10PB/AL installation wiring diagram



F1 2A Power Fuse

F2 5A Main Fuse

K13 Main (stop)

K1 1ST step in A

K2 1ST step in B

K3 1ST step in C

K4 1ST step in D

K5 1ST step in E

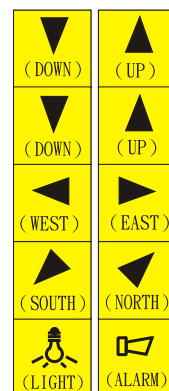
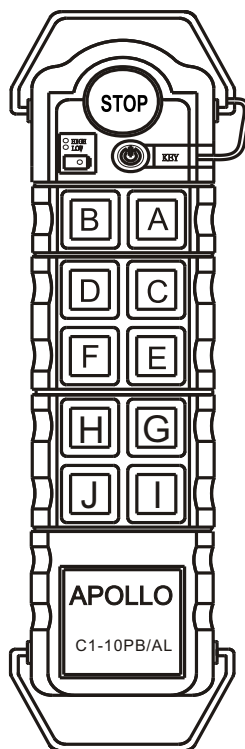
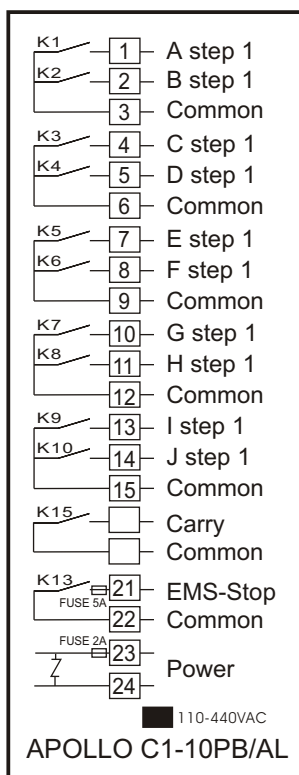
K6 1ST step in F

K7 1ST step in G

K8 1ST step in H

K9 1ST step in I

K10 1ST step in J

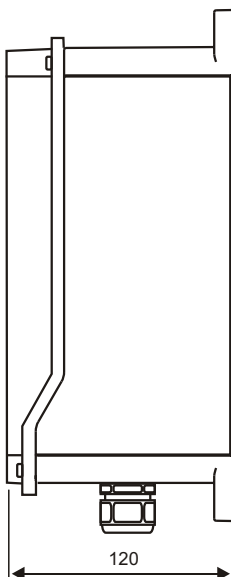
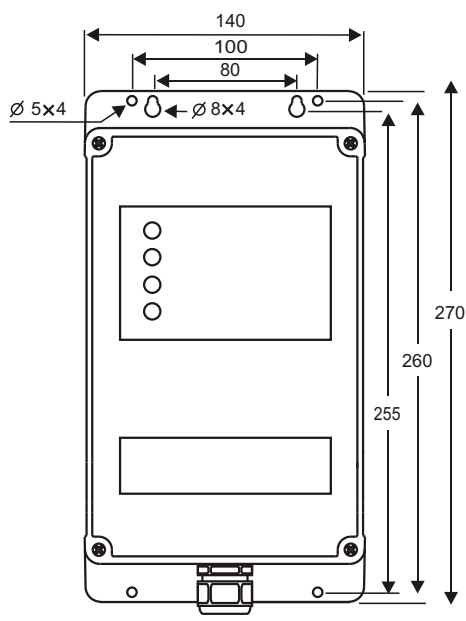


Button-legend
(custom-made on demand)



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APOLLO C1-12PB installation wiring diagram



K13 Main (stop)

K1 1ST step in A

K2 1ST step in B

K3 1ST step in C

K4 1ST step in D

K5 1ST step in E

K6 1ST step in F

K7 1ST step in G

K8 1ST step in H

K9 1ST step in I

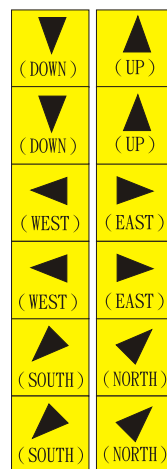
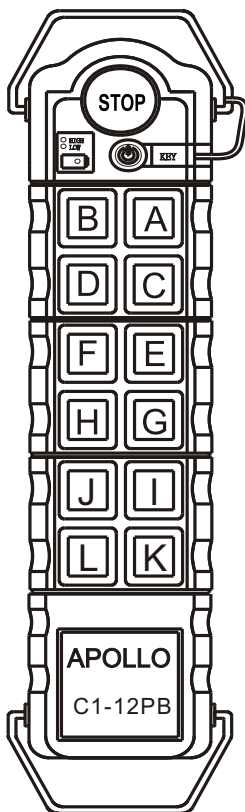
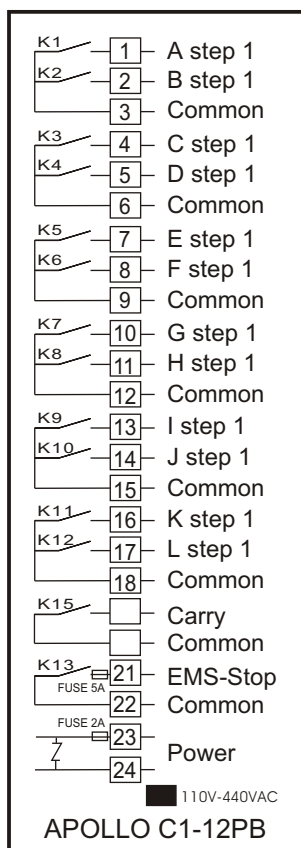
K10 1ST step in J

K11 1ST step in K

K12 1ST step in L

F1 2A Power Fuse

F2 5A Main Fuse

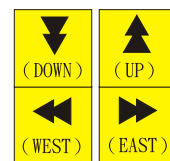
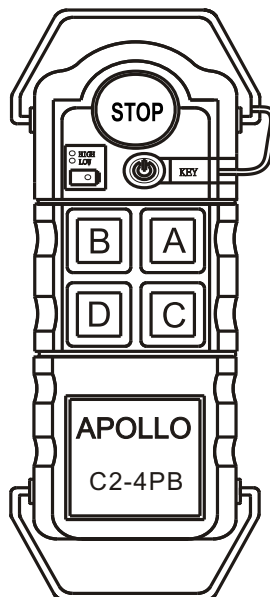
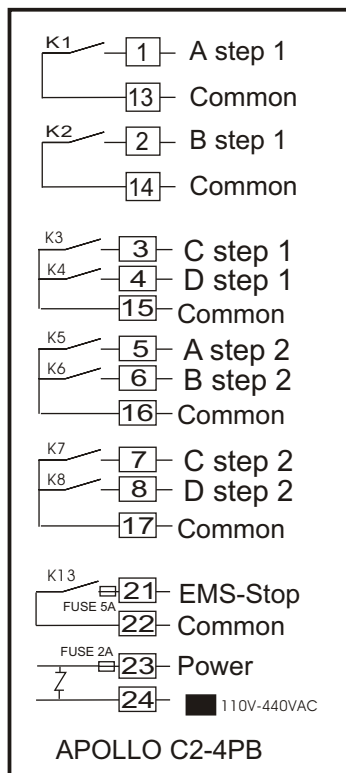
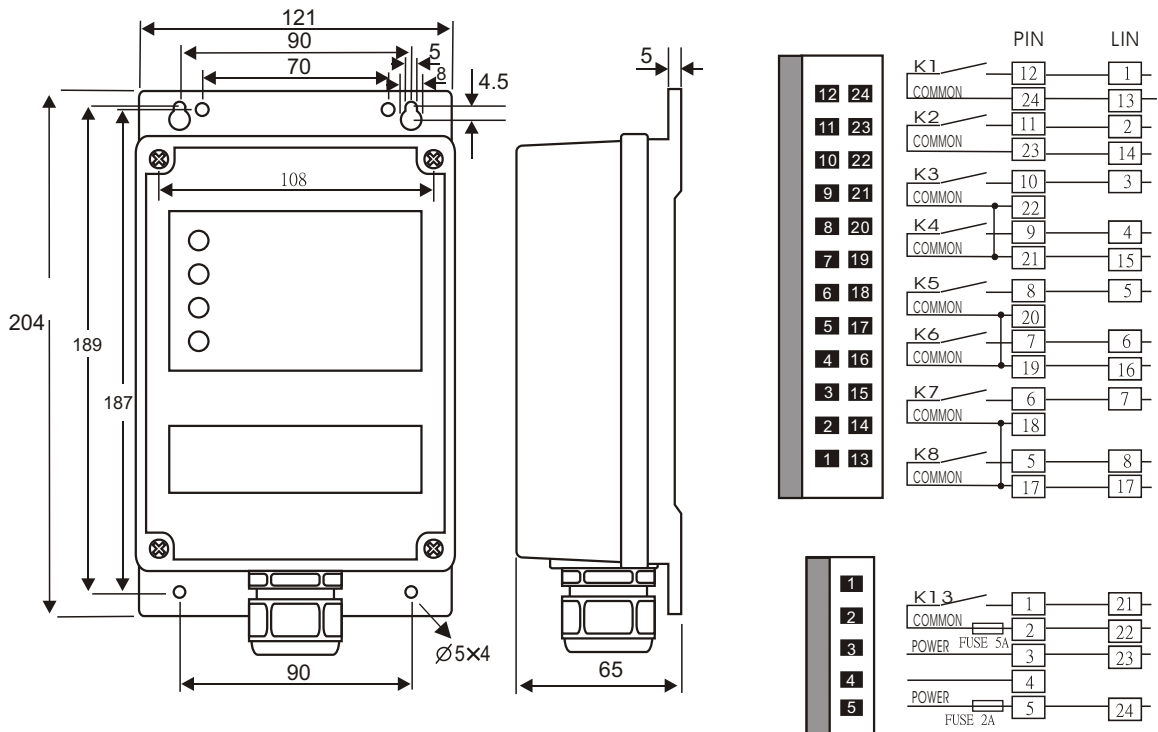


Button-legend
(custom-made on demand)



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APOLLO C2-4PB installation wiring diagram

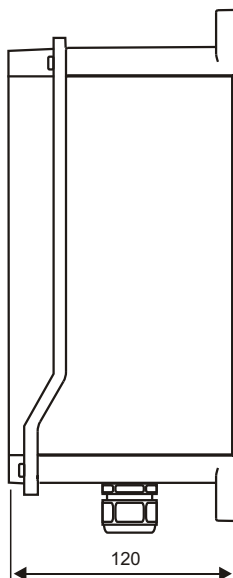
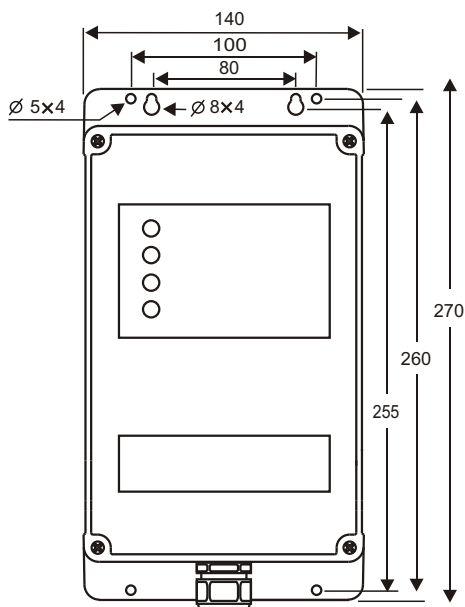


Button-legend
(custom-made on demand)



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APOLLO C2-6PB installation wiring diagram



F1 2A Power Fuse

F2 5A Main Fuse

K13 Main (stop)

K1 1ST step in A

K2 1ST step in B

K3 1ST step in C

K4 1ST step in D

K5 1ST step in E

K6 1ND step in F

K7 2ND step in A

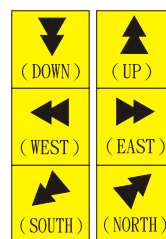
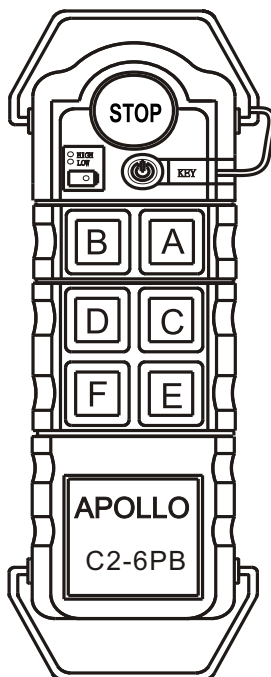
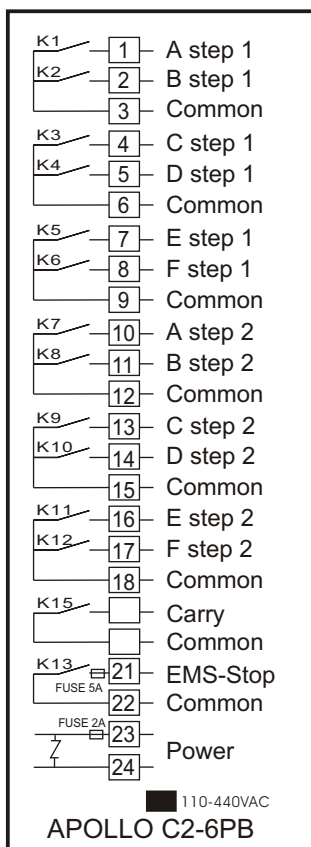
K8 2ND step in B

K9 2ND step in C

K10 2ND step in D

K11 2ND step in E

K12 2ND step in F

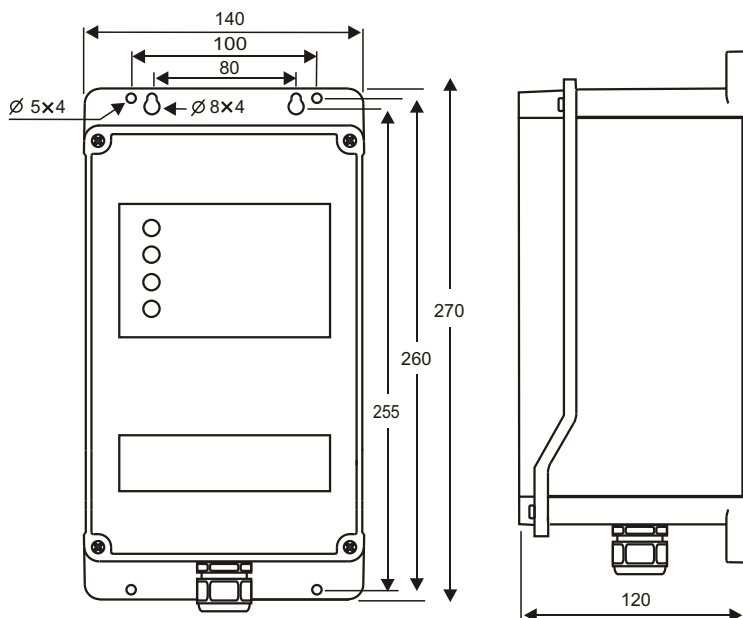


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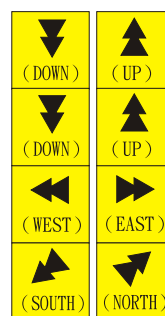
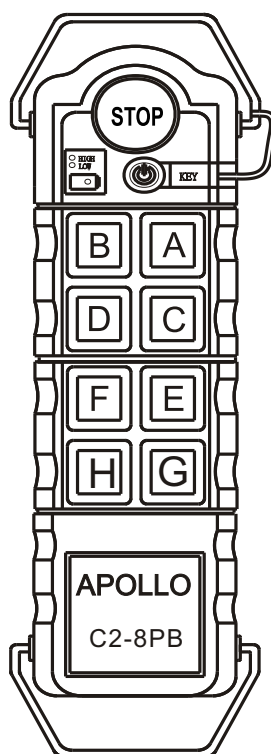
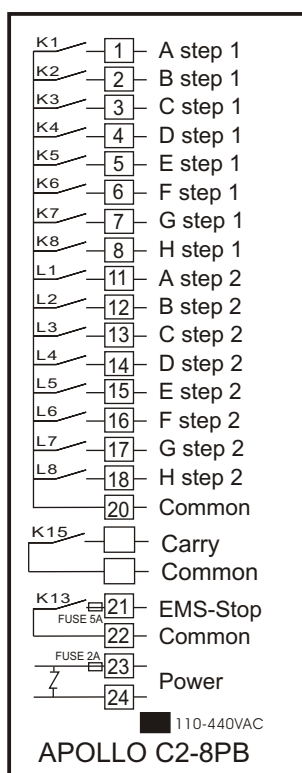
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APOLLO C2-8PB installation wiring diagram



- K13 Main (stop)
- K1 1ST step in A
- K2 1ST step in B
- K3 1ST step in C
- K4 1ST step in D
- K5 1ST step in E
- K6 1ST step in F
- K7 1ST step in G
- K8 1ST step in H
- L1 2ND step in A
- L2 2ND step in B
- L3 2ND step in C
- L4 2ND step in D
- L5 2ND step in E
- L6 2ND step in F
- L7 2ND step in G
- L8 2ND step in H

- F1 2A Power Fuse
- F2 5A Main Fuse

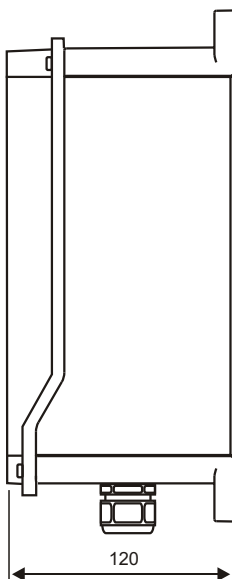
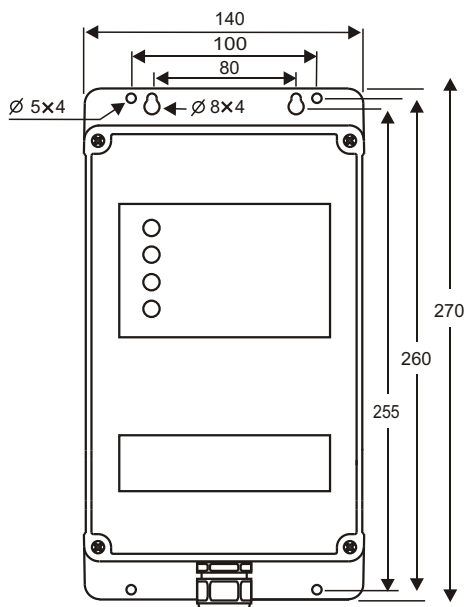


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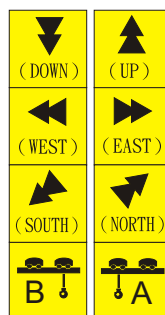
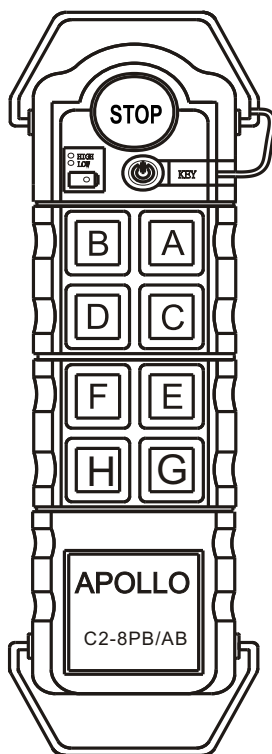
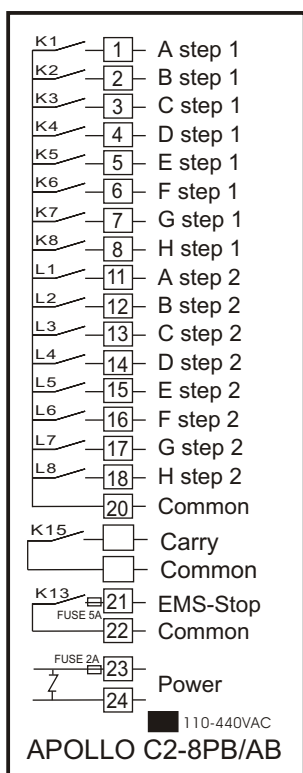
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APOLLO C2-8PB/AB installation wiring diagram



- K13 Main (stop)
 K1 1ST step in A
 K2 1ST step in B
 K3 1ST step in C
 K4 1ST step in D
 K5 1ST step in E
 K6 1ST step in F
 K7 1ST step in G
 K8 1ST step in H
 L1 2ND step in A
 L2 2ND step in B
 L3 2ND step in C
 L4 2ND step in D
 L5 2ND step in E
 L6 2ND step in F
 L7 2ND step in G
 L8 2ND step in H

- F1 2A Power Fuse
 F2 5A Main Fuse

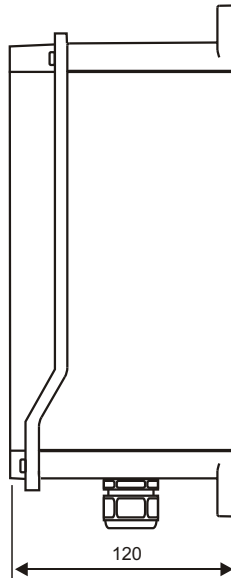
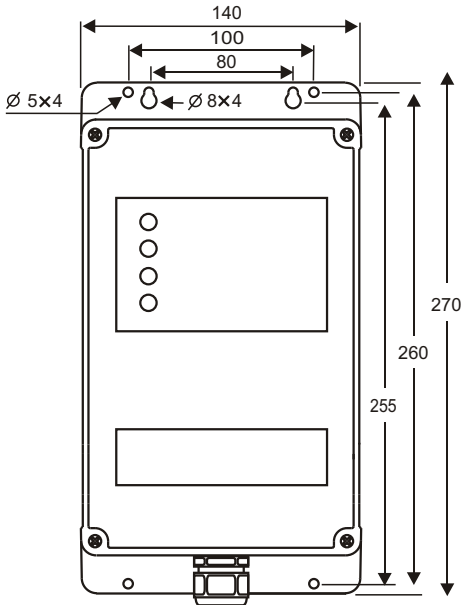


Button-legend
 (custom-made on demand)



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APOLLO C2-8PB/AL installation wiring diagram



K13 Main (stop)

K1 1ST step in A

K2 1ST step in B

K3 1ST step in C

K4 1ST step in D

K5 1ST step in E

K6 1ST step in F

K7 1ST step in G

K8 1ST step in H

L1 2ND step in A

L2 2ND step in B

L3 2ND step in C

L4 2ND step in D

L5 2ND step in E

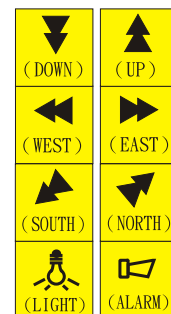
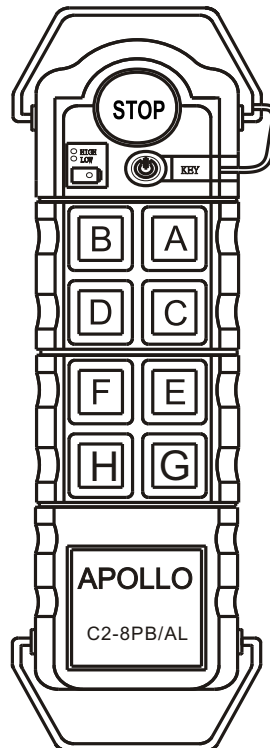
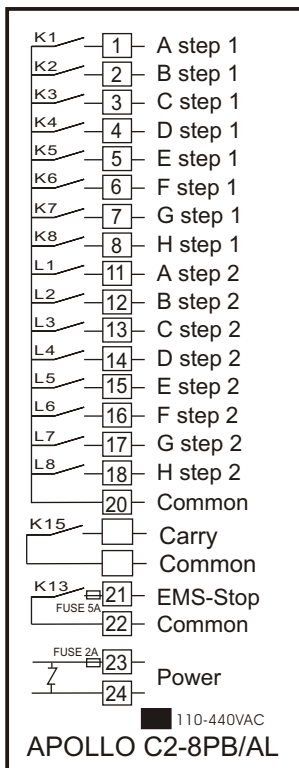
L6 2ND step in F

L7 2ND step in G

L8 2ND step in H

F1 2A Power Fuse

F2 5A Main Fuse

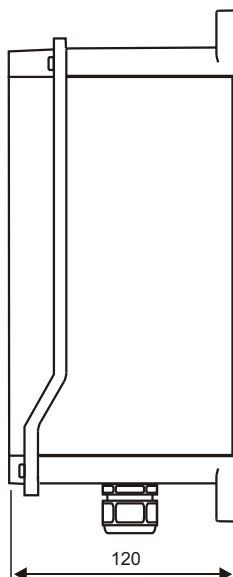
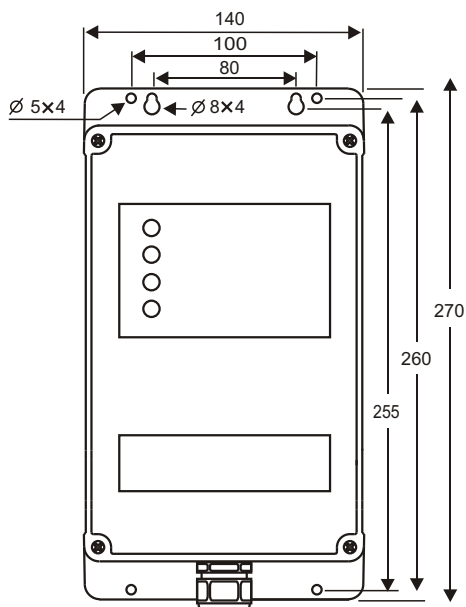


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(custom-made on demand)



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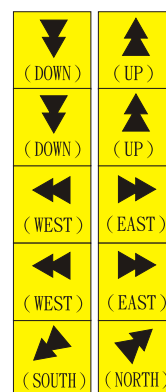
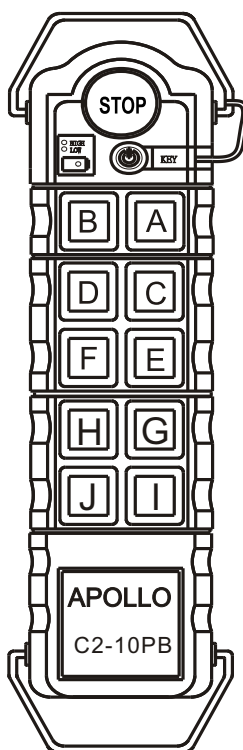
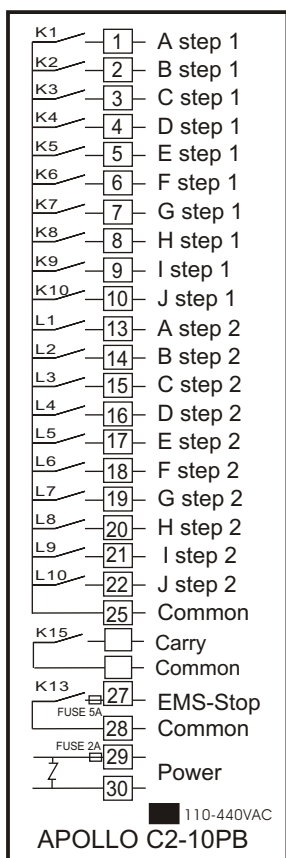
APOLLO C2-10PB installation wiring diagram



F1 2A Power Fuse

K13 Main (stop)

- K1 1ST step in A
- K2 1ST step in B
- K3 1ST step in C
- K4 1ST step in D
- K5 1ST step in E
- K6 1ST step in F
- K7 1ST step in G
- K8 1ST step in H
- K9 1ST step in I
- K10 1ST step in J
- L1 2ND step in A
- L2 2ND step in B
- L3 2ND step in C
- L4 2ND step in D
- L5 2ND step in E
- L6 2ND step in F
- L7 2ND step in G
- L8 2ND step in H
- L9 2ND step in I
- L10 2ND step in J

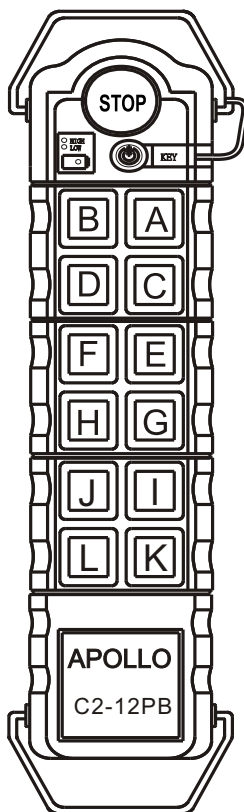
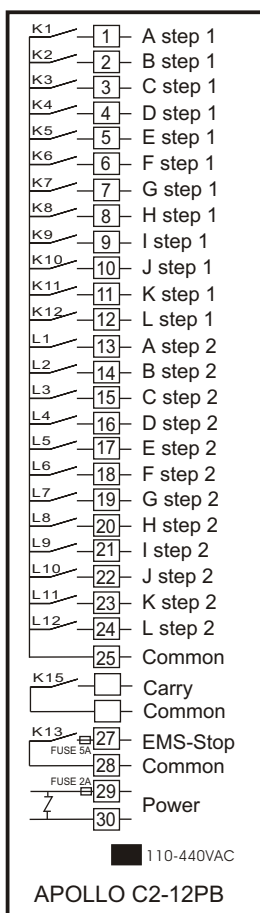
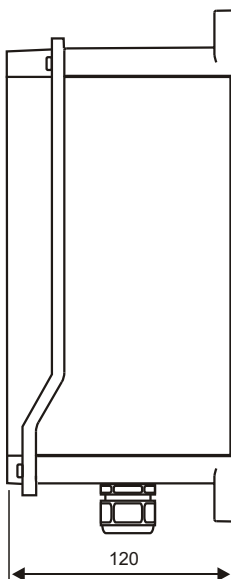
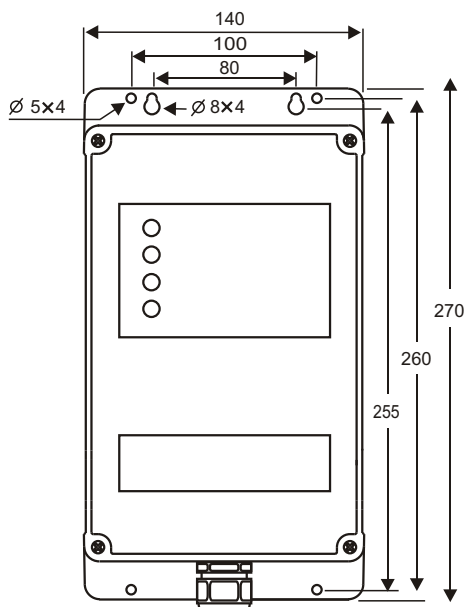


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(custom-made on demand)



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APOLLO C2-12PB installation wiring diagram



F1 2A Power Fuse

F2 5A Main Fuse

K13 Main (stop)

K1 1ST step in A

K2 1ST step in B

K3 1ST step in C

K4 1ST step in D

K5 1ST step in E

K6 1ST step in F

K7 1ST step in G

K8 1ST step in H

K9 1ST step in I

K10 1ST step in J

K11 1ST step in K

K12 1ST step in L

L1 2ND step in A

L2 2ND step in B

L3 2ND step in C

L4 2ND step in D

L5 2ND step in E

L6 2ND step in F

L7 2ND step in G

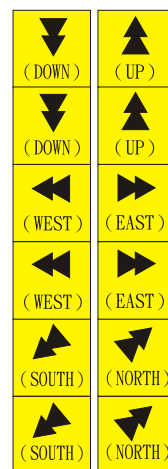
L8 2ND step in H

L9 2ND step in I

L10 2ND step in J

L11 2ND step in K

L12 2ND step in L



Button-legend
(custom-made on demand)



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Limited One Year 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 labor. 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.

STANDARD ACCESSORY

☐ transmitter x 1 ☐ receiver x 1 ☐ handbook x 1

☐ screw x 4 ☐ transmitter sleeve x 2 ☐ shoulder strap x 1

