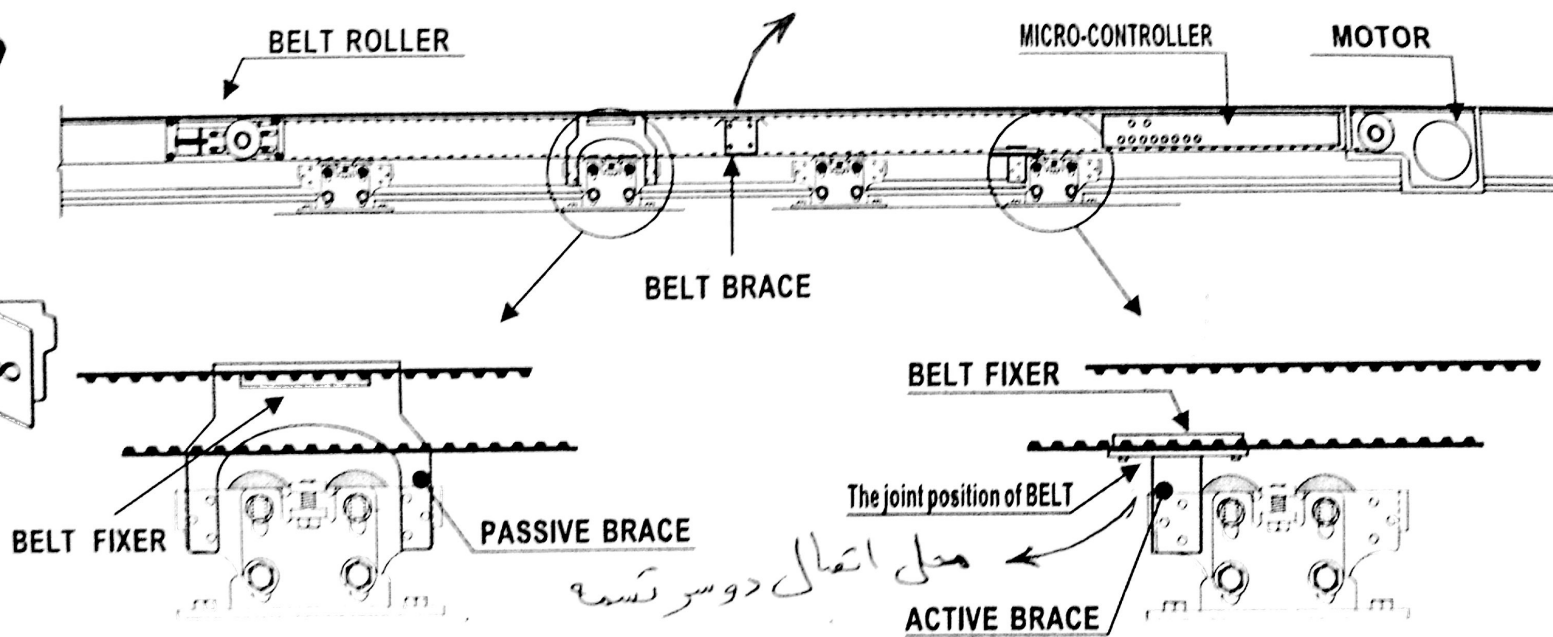
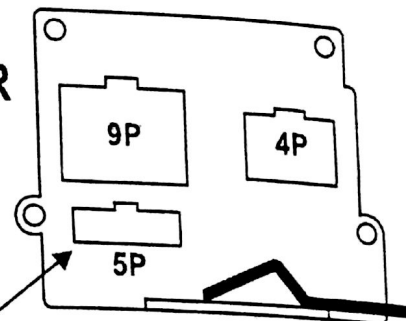


اجزای نمونه (جهت جلوگیری از شکم دادن نمونه)



Output connect

MICRO-CONTROLLER



9P terminal

Black	Red	Orange
Yellow	Green	Blue
Purple	Gray	

- Red DC13V⁺ — Output DC13V 1.5A for ELECTRIC LOCK use
- Black GND⁻ —
- Blue — Output NC signal
- Green —
- Orange — ELECTRIC LOCK enable
- Yellow —
- Gray — Full/Half opening signal
- Purple —

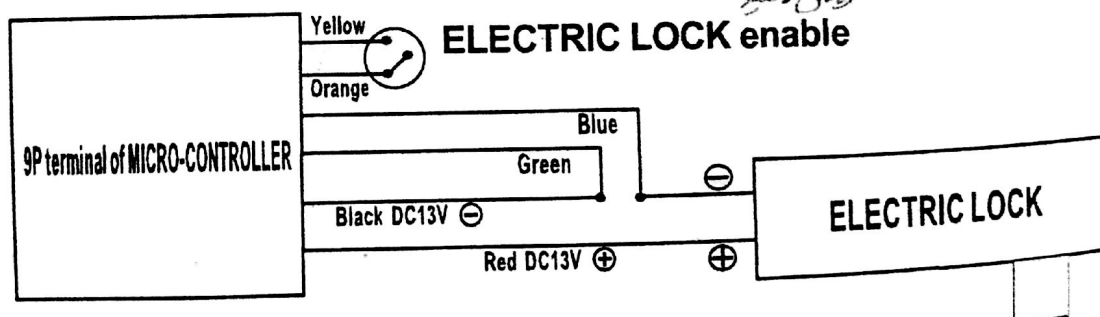
4P terminal

Black	Red
Orange	Orange

- Red DC24V⁺ — Power of SENSOR
- Black GND⁻ —
- Orange — The signal of SENSOR
- Orange —

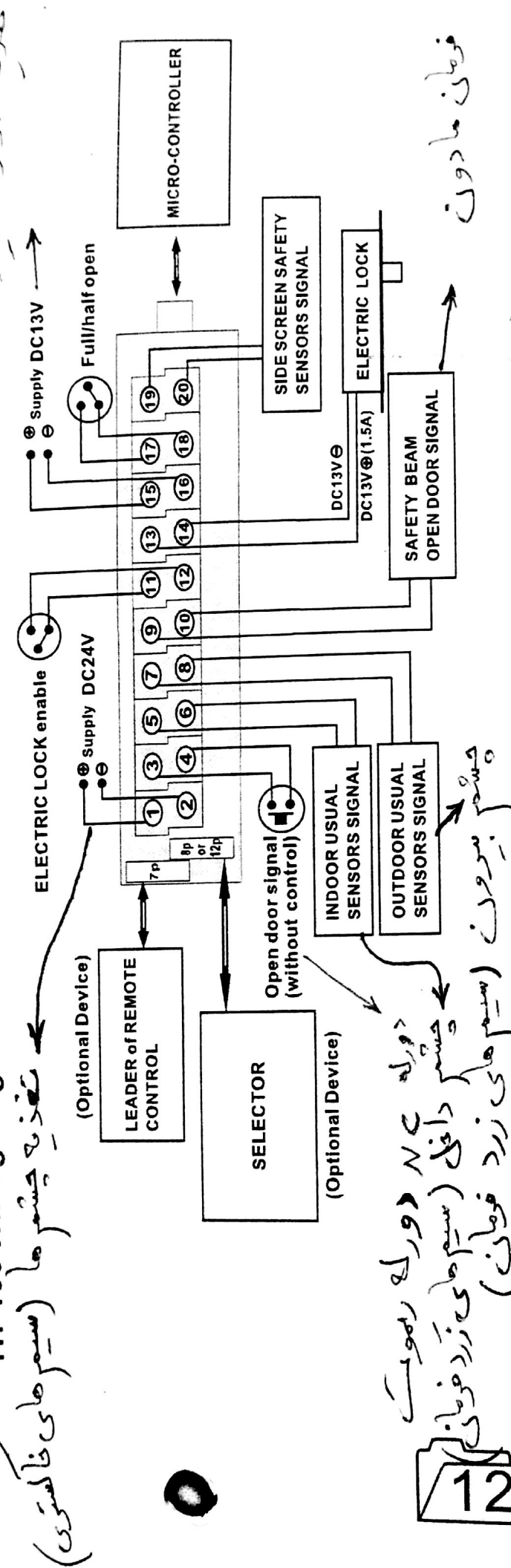
PS : 5P terminal is required using with Combined Terminal Block.

The illustration of the ELECTRIC LOCK contact



PS : After the orange and the yellow lines are short circuit, the blue and the green lines would output NC signal.

TH-100 Wiring diagram (Optional Device)



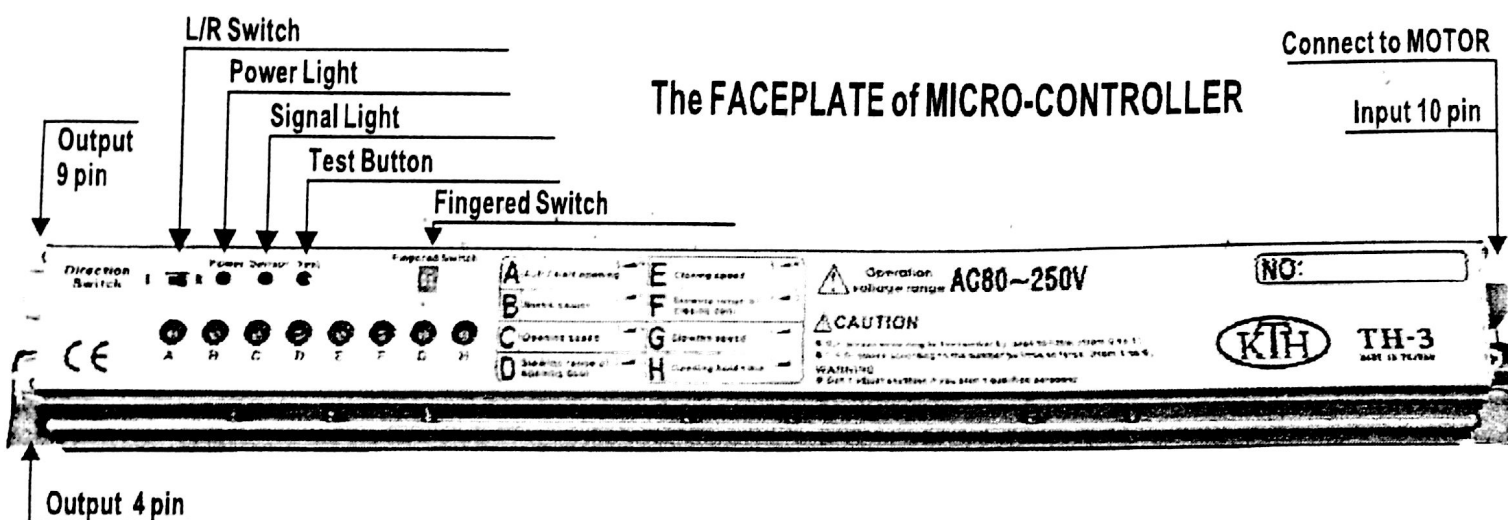
- The FUNCTION of the ELECTRIC LOCK will work when ⑪ and ⑫ are short circuit, then ⑬ and ⑭ will output DC13V for ELECTRIC LOCK after the door closes. ⑬ and ⑭ will not output DC13V if ⑪ and ⑫ are not short circuit.
- The SIGNAL of the SAFETY BEAM is controlled by ⑨ and ⑩. When door is opening and running, ⑨ and ⑩ keep to accept the signal, then the SAFETY BEAM will be working. ⑨ and ⑩ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.
- Please according with the connection way if it was installed "Selector", "Remote", "Sensors of inside and outside" at the same time; The entrance guard is under controlled by "Selector", furthermore, please extra contact ③ and ④ for the open door signal of "without control". eg. Extra install a BUTTON or CARD READER....
- The signal of Side Screen Safety Sensor is controlled by ⑪ and ⑫. Side Screen Safety Sensors are placed at the rear end of the door to prevent collisions during the opening movement of the moving leaves. When the signal activates, the moving leaves will stop and hold till the object or people away.

Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

1.SYSTEM PROGRAM REMEMBER

After turn on the power, the MICRO-CONTROLLER will remember the distance and the range.

2.ADJUST



Red LED-Power is connected.

Green LED- Input the open door signal.

L / R switch- The direction of the door opening: right/left(R/L) .

Fingered Switch- Pin 1- Directional Function

Operation $\begin{cases} \text{OFF: Normal mode.} \\ \text{ON: push once, open the door. Push again, close the door.} \end{cases}$

Fingered Switch- Pin 2- Reverse Switch: in order to control opening and closing direction of the Door-Leaf after power resumes.

Operation $\begin{cases} \text{OFF: Normal mode, after power resumes, the Door-Leaf opens the door first.} \\ \text{ON: suitable for Security System, after power resumes, the Door-Leaf closes the door first.} \end{cases}$





A Full/Half opening

Adjust the **RANGE** of the **HALF OPEN DISTANCE**.
Higher number, wider range.



B Brake power

The Door-Leaf is slight, the **BRAKE POWER** is less.
Please choose 0~2 if the Door-Leaf is under 50kg.
Please adjust number from number 5 if the Door-Leaf is over 80kg.



C The opening speed of the door

Adjust the **OPEN SPEED**
Higher number, faster speed.
CAUTION: please adjust the number one by one from low to high.



D The slowing range of opening door

Adjust the **SLOW RANGE** of **OPENING DOOR**
Higher number, more range about the slow range at open door position.
CAUTION: please adjust the number one by one from high to low.

 E The closing speed of the door

Adjust the **CLOSED SPEED**

Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.

 F The slowing range of closing door

Adjust the **SLOW RANGE** of **CLOSED DOOR**

Higher number, more range about the slow range at open door position.

CAUTION: please adjust the number one by one from high to low.

 G The slowing speed of the door

Adjust the **SLOW SPEED**

Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.

 H Opening hold time

Adjust the **HOLD OPEN TIME**

Higher number, the hold time is longer.

NUMBER	0	1	2	3	4	5	6	7	8	9
SECOND	0	1	2	3	4	5	6	10	15	20

1. Turn off power.

2. Use your hand to move the Door-Leaf.

Preliminary analysis

Running isn't Smooth

Running smooth

Check the circuit

1. Turn on power.

2. Take out the sensor signal line.

3. Test the circuit of SENSOR.

Running check

Running smooth

Running isn't Smooth

The PROBLEM of the MOTOR

1. Wiring connects fault.

2. Spare parts of the MICRO-CONTROLLER broken.

1. Check the distance between Door and Wall / Crossbeam.

2. HANGING TWIN-WHEEL is broken.

3. The GROUND RAIL is dirty.

4. The Door-Leaf becomes deformed.

5. Check BLOCK SCREW whether need to adjust.

6. The GROUND GUIDE WHEEL is damaged.

7. Check the LOCK whether it is broken.

8. Check the ALUMINUM COVER whether it isn't fixed.

9. There is dirt inside the ALUMINUM PROFILE.

The PROBLEM of the SENSOR

1. Check the SENSOR whether it is broken.

2. Check the SENSOR whether the wire is broken or short circuit.

PROBLEMS	REASONABLE	CHECK	HOW TO SOLVE
DOOR CAN'T BE MOVED.	1.No power.	Broken circuit.	Check the broken circuit position.
		The Power Switch is not opened.	Open the POWER SWITCH.
	2.The door is locked.	Door is locked and no movement action.	Open the DOOR LOCK.
	3.The sensor is broken.	Signal light is WORKING.	Check the MICRO-CONTROLLER.
		Signal light is OUT OF WORKING.	Check the CIRCUIT OF SENSOR or change a new one SENSOR.
SPEED	1.Speed is too slow.	Check the Speed at KNOB of MICRO-CONTROLLER.	Adjust the Speed of Open/Closed Door.
	2.Door runs into the obstructor, then cause the Door moving slow.	Installation problem or dirty.	Reinstall or clean the ALUMINUM PROFILE.
	3.Door is difficult to move.	Turn off the power.Use hand to move the Door, besides, check the Ground Guide Rail whether it is dirty.	Clean the Ground Guide Rail.
		Check the HANGING TWIN-WHEEL whether it is broken.	Change a new one.
		Check the Door Bolt in the door bottom whether it is loosen.	Fix the Door Bolt.
		Check whether the Ground Wheel is broken.	Change a new Ground wheel.
DOOR CAN'T FULL OPEN.	In the Half-Open way.	Check the Knob/Switch.	Turn on to Full Open.
DOOR CAN'T CLOSE.	1.In the Full-Open way.	The SENSOR keeps working.	Check wiring or change a new SENSOR.
	2.The Door opens suddenly while it is moving to close.	The SENSOR probably is installed with something wrong.	Adjust the SENSOR or change a new one.