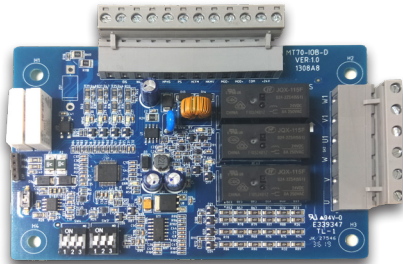


MT70-IOB-D

Hall Door Control Conversion Board

User Manual V1.0

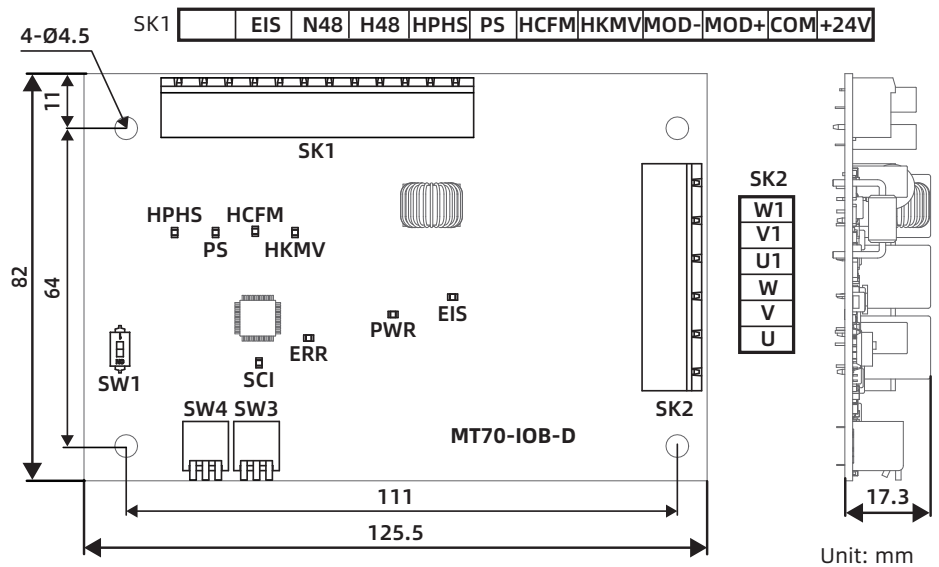


Feature

It is used for the transfer of the hall doors on each floor, and realizes a HD09 door controller to control the opening and closing of the hall doors on each floor.

Hall door control signal for detection and output control.

IOB-D Description



Terminal Description

Terminal		Description	
SK1	+24V, COM	External DC24V power input	Modbus communication with the MCB board
	MOD+, MOD-	Hall call communication	
	HKMV	Door opening in place signal input	High-level effective digital input circuit with fixed function
	HCFM	Door closing in place signal input	
	PS	Position signal input	
	HPHS	Light curtain signal input	
	+48V, COM	External DC48V power input	Relay output, fixed function
	EIS	Solenoid valve output, DC48V/1A	
SK2	U, V, W	UVW input	Drive hall door motor
	U1, V1, W1	UVW output	

Indicator Description

Indicator		Description
SCI	Modbus communication indicator with MCB board	Flashes evenly when the communication is normal, and goes off when it is abnormal
ERR	Fault indicator	Always on when there is a fault; Off when there is no fault
PWR	Power indicator	Always on when it is normal
HKMV	Door opening in place indicator	Lights up when the input signal is valid
HCFM	Door closing in place indicator	Lights up when the input signal is valid
PS	Position signal indicator	Lights up when the input signal is valid
HPHS	Light curtain signal indicator	Lights up when the input signal is valid
EIS	Solenoid valve output indicator	Lights up when the output signal is valid

Set Communication Matching Resistance (SW1)

SW1 DIP Switch	
 ON	Set SCI communication matching resistance: - Set to 1, the matching resistance is not used (factory setting). - Set to ON, the matching resistance is connected.

DIP Setting Address (SW4/SW3)

Use 8421 code setting:

- Code 8421 1 - 24 is to set the front door address.
- Code 8421 25 - 48 is to set the rear door address.

The address is a six-digit code, corresponds to the six DIP bits of SW4/SW3.

The DIP is set to ON, the corresponding code is 1, otherwise, the code is 0.

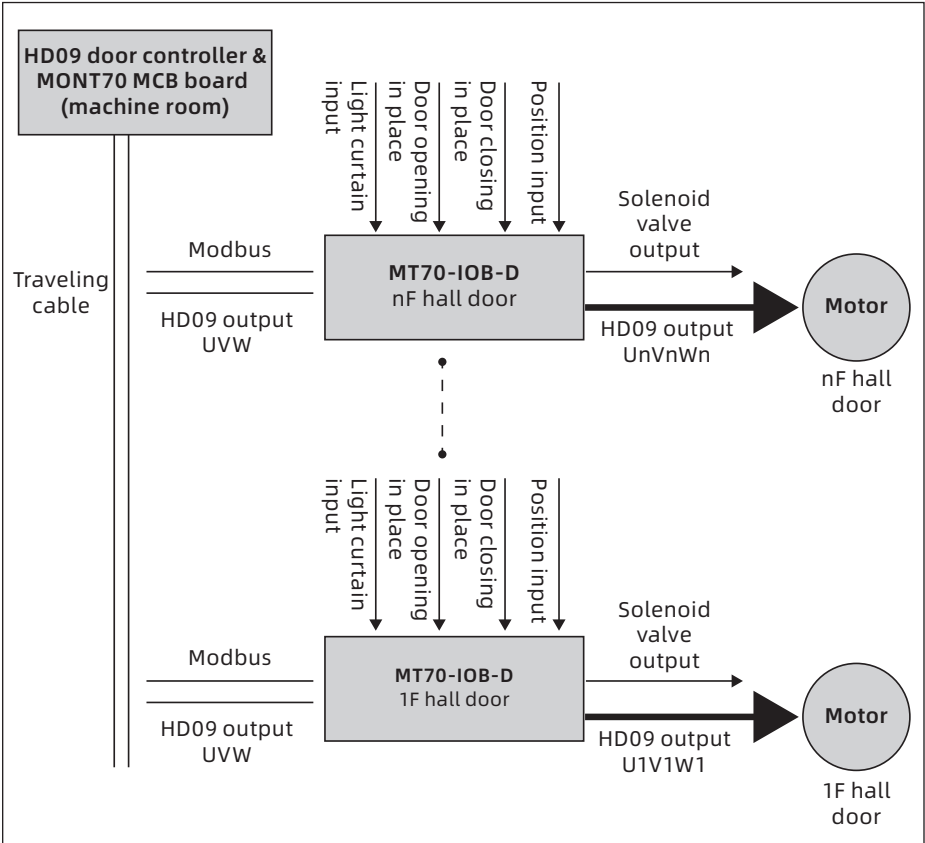
For example:

The figure on the right SW4/SW3 composes code 000 001, corresponding to floor 1, front door address in the following table.



Floor	Front Door (Code 8421)		Rear Door (Code 8421)		Floor	Front Door (Code 8421)		Rear Door (Code 8421)	
	Address		Address			Address		Address	
1	000 001	1	011 001	25	13	001 101	13	100 101	37
2	000 010	2	011 010	26	14	001 110	14	100 110	38
3	000 011	3	011 011	27	15	001 111	15	100 111	39
4	000 100	4	011 100	28	16	010 000	16	101 000	40
5	000 101	5	011 101	29	17	010 001	17	101 001	41
6	000 110	6	011 110	30	18	010 010	18	101 010	42
7	000 111	7	011 111	31	19	010 011	19	101 011	43
8	001 000	8	100 000	32	20	010 100	20	101 100	44
9	001 001	9	100 001	33	21	010 101	21	101 101	45
10	001 010	10	100 010	34	22	010 110	22	101 110	46
11	001 011	11	100 011	35	23	010 111	23	101 111	47
12	001 100	12	100 100	36	24	011 000	24	110 000	48

Typical Application



Function Introduction

MCB Board Ref. Code	Function	Setting Range	Default
F14.07 (MONT70)	Open parameters	Bit3 = 1, enable IOB-D function Bit3 = 0, do not enable IOB-D function	Bit3 = 1

MCB board conducts Modbus communication with MT70-IOB-D, which increases the communication fault E7700.

- Fault subcode 1 - 24: The communication of the front door MT70-IOB-D is abnormal.
- Fault subcode 25 - 48: The communication of the rear door MT70-IOB-D is abnormal.