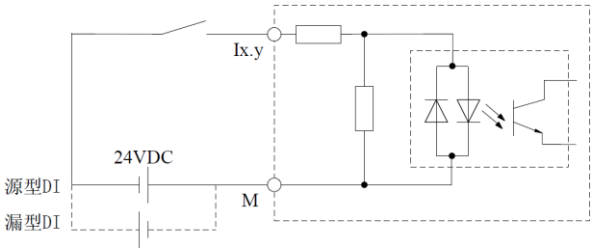
PWR			

LE5107L LE5107L

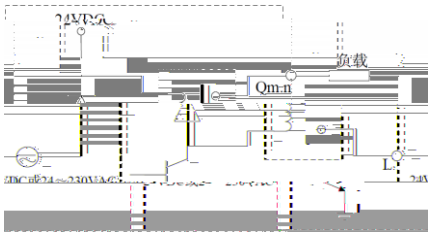
LE5107L

⏚		L		RS485-	RS485	RS485+	RS485
		N		1L	Q0.0 Q0.3		
				Q0.0		Q0.1	
		M		Q0.2		Q0.3	
I0.0	1/ 1/ 1 / A /	I0.1	2/ 2/ 2 /	2L	Q0.4 Q0.7		
I0.2	1 / /	I0.3	2 /	Q0.4		Q0.5	
I0.4	B / 1 /	I0.5	2 /	Q0.6		Q0.7	
I0.6		I0.7		3L	Q1.0 Q1.1		
I1.0		I1.1		Q1.0		Q1.1	
I1.2		I1.3					
I1.4		I1.5					

➢



DI

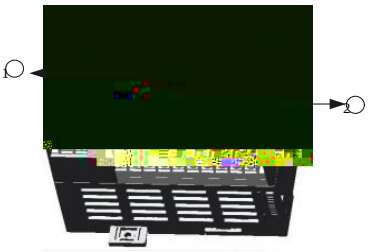


DO

➢

RS485 (PC)

LE5107L 8 LE5107L CPU



8

1		3		5	RS485	7	GND
2		4		6	RS485	8	GND

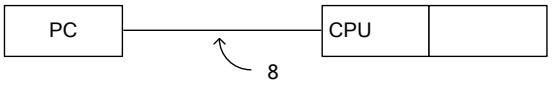
➢

PLC PLC

RUN/STOP		
	RUN	RUN STOP
	STOP	STOP
	RUN/STOP	STOP

➢

- PLC PLC
- AutoThink V3.1.0
- AutoThink



⚠

1

2 PLC

3 PLC

4

5 ⚠

➢

AutoThink

AutoThink V3.1 _ 5

LE5107L 14DI/ 10 DO CPU Module

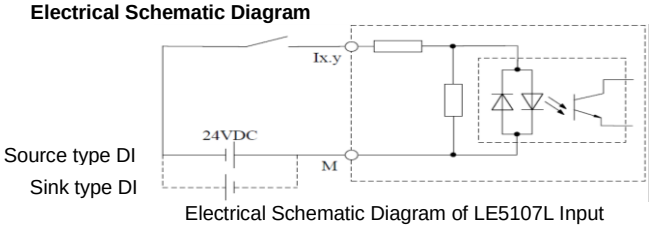
LE5107L is a CPU module of LE Series micro PLC which can complete control, detection, diagnosis, RS485 communication needed for system. Functions specifically achieved as follows: RUN/STOP switch selects running and stopping mode of module; RTC records operation time; equipped with USB memory card interface to facilitate download user program; RS485 interface provides channel to download application program and supports access to peripheral device and multi-PLC interconnection; equipped with 14 DI and10 DO.

- **Technical Specifications**

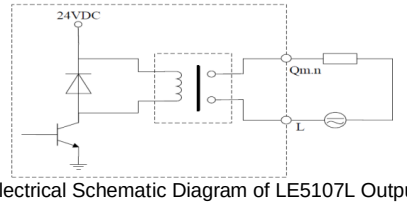
CPU Specifications		**Power Supply Specifications**		
On-board I/O	14 DI / 10 DO	Input	Rated voltage	100~240VAC
			Permissible range	85~264VAC 50/60Hz
I/O expansion module (max.)	4 (total modules power consumption 4)		Current consumption (max.)	300mA
Number of expansion board	1	External output voltage	Rated voltage	Not supported
Programming language	LD/ST/CFC/SFC		Permissible range	Not supported
Program memory	128K bytes	External output current (max.)	+24VDC (supply for expansion bus)	190mA
Data memory	10496 bytes		+5VDC (supply for expansion bus)	550mA
Power-loss retentive memory	2K bytes	Hold up time (loss of power)		10ms
Memory card	Memory card			

Terminal Identification	Description	Terminal Identification	Description	Terminal Identification	Description	Terminal Identification	Description
⏚	Grounding	L	Fire wire	RS485-	RS485 Communication negative	RS485+	RS485 Communication positive
	No connection	N	Null line	1L	Common of Output (Q0.0 Q0.3)		No connection
	No connection		No connection	Q0.0	Ordinary output	Q0.1	Ordinary output
	No connection	M	Common of Input	Q0.2	Ordinary output	Q0.3	Ordinary output
I0.0	Fast external interruption 1/ Pulse catch 1/ single-phase counter 1/ A/B phase counter phase A / Ordinary input	I0.1	Fast external interruption 2/ pulse catch 2/ single-phase counter 2/ Ordinary input	2L	Common of Output Q0.4 Q0.7		No connection
I0.2	Single-phase counter 1 reset /A/B phase counter reset /Ordinary input	I0.3	Single-phase counter 2 reset/Ordinary input	Q0.4	Ordinary output	Q0.5	Ordinary output
I0.4	A/B phase counter Phase B /Single-phase counter 1 direction control /Ordinary input	I0.5	Single-phase counter 2 direction control /Ordinary input	Q0.6	Ordinary output	Q0.7	Ordinary output
I0.6	Ordinary input	I0.7	Ordinary input	3L	Common of Output (Q1.0 Q1.1)		No connection
I1.0	Ordinary input	I1.1	Ordinary input	Q1.0	Ordinary output	Q1.1	Ordinary output
I1.2	Ordinary input	I1.3	Ordinary input				
I1.4	Ordinary input	I1.5	Ordinary input				

➢ **Electrical Schematic Diagram**



Electrical Schematic Diagram of LE5107L Input



Electrical Schematic Diagram of LE5107L Output

➢ **Communication Interface**

RS485 communication interface can establish connection to personal computer (PC) through programming cable, realize download of user program and on-line debugging and be applied to communication with field devices. Junction and communication between LE5107L CPU module and upper computer are achieved through PS/2 of LE5107L (at ① in the figure), junction and communication between LE5107L CPU module and expansion module are achieved through connector (at ② in the figure).

Definition of PS/2

Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	__	3	__	5	RS485+	7	System GND
2	__	4	__	6	RS485-	8	System GND

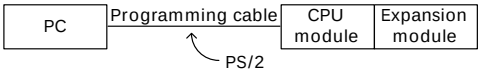
➢ **Software Configuration**

Both programming software and CPU module provide th

RUN/STOP selective switch position	Status of programming software	Module status
Run (Switch to upper position)	RUN	RUN: automatically changed into STOP if users download program in this state.
	STOP	STOP
Stop (Switch to lower position)	RUN/STOP	STOP(user's program stops, unable to run)

➢ **Communication Connection**

- Before downloading, please confirm that PLC is connected as per the schematic diagram. Please use HollySys PLC programming cable to download the program.
- Before downloading, please confirm that AutoThink V3.1.0 or above version has been installed
- 5 2 ons for downloading.



⚠Caution:

Cover of the terminal should be fastened properly prior to power on of the PLC system to avoid unnecessary personal injury or device damage.
When connecting or removing PLC power, severe personal injury or device damage may be caused if power is not isolated. Therefore, before module installation or removal, all power must be turned off and please pay attention to this at any time.
Before connecting power to PLC, please confirm programming cable is connected properly and please do not remove from or insert into communication port during power on to avoid device damage.
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.


Warning symbol for high voltage, please do not touch equipment with the warning symbol, operation in electricity is strictly prohibited.

➢ **Fault Diagnosis**

System assign diagnostic zone with corresponding byte to each module and save detailed diagnostic information of each module. When module faults detected the diagnostic information will be reported and saved into the user configurable variables for future query and analysis purposes. Please refer to Data Storage Area in Chapter 5 of AutoThink V3.1 User Manual_Project Configuration for more details.