



LC-103H

1-channel AC Digital Input and 3-channel Relay Output Lighting Control Module with High Power Relay Output

Introduction

The LC-103H is an easy-to-use lighting control module that requires no specialist skills to install and operate, and no software is needed in order to control the DO channels.

The LC-103H provides 1 channel for digital input (photo couple isolation) and 3 channels for relay output. All output channels are form A type relays, while the input channel is based on a sink-type using a wire connection. The input channel can directly control a 3-channel relay ON and OFF sequence without requiring a remote host controller. 4 kV ESD protection and 5000 Vrms intra-module isolation are also provided.

When required, communication with the LC-103H is programmable based on the DCON & Modbus RTU protocol, and an added benefit is that different addresses can be set for DCON & Modbus RTU communication via hardware configuration.

Specifications

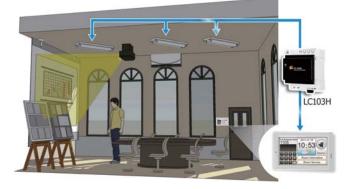
Software			
Function	Local and Remote Direct Control Relay ON/OFF and Remote Status Monitoring		
EMS Protection			
ESD (IEC 61000-4-2)	±2 kV Contact for each Terminal		
	±4 kV Air for Random Point		
EFT (IEC 61000-4-4)	±2 kV for Power		
SURGE(IEC 61000-4-5)	±2 kV for Power		
LED Indicators			
Status	1 LED as Power Indicator		
Digital Input			
Channels	1		
Туре	Wet Contact, 90 ~ 240 VAC		
On Voltage Level	65 VAC		
Off Voltage Level	56 VAC		
Isolation	5000 Vrms		
Input Impedance	68 KΩ, 1 W		
Relay Output			
Channels	3		
Туре	Power Relay, Form A (SPST N.O.)		
Contact Rating	16 A @ 250 VAC or 16 A @ 30 VDC		
Operate Time	10 ms Max.		
Release Time	5 ms Max.		
Electrical Endurance	120,000 ops.		
Mechanical Endurance	5,000,000 ops.		
Application Specification	(1).Incandescent Lamp: 40W/ 220VAC * 8 Sets (2).LED(Electronic ballast): 40W/ 220VAC *10 Sets		

Features

- Provide High Power Relay Output to turn ON/OFF the Lighting
 - □ Support Lighting Module (Max.):
 - □ Incandescent Lamp: 40 W/ 220 VAC * 8 Sets
- LED(Electronic ballast): 40 W/ 220 VAC * 10 Sets
- Isolated AC Digital Input
- Made from fire retardant materials (UL94-V0 Level)
- 5000 VDC Intra-Module Isolation
- ±2 kV Surge ,±4 kV ESD and EFT Protection
- Supports Modbus RTU and DCON Protocols
- Low power consumption

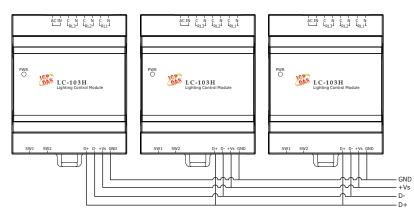


Applications



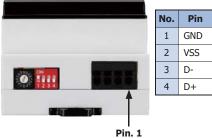
COM Ports			
Ports	1 x RS-485		
Baud Rate	9600 bps		
Data Format	(N, 8, 1)		
Protocol	Modbus RTU/DCON		
Power			
Input Range	10 ~ 30 VDC		
Consumption	0.5 W Max.		
Mechanical			
Dimensions (mm)	72 x 100 x 59 (W x L x H)		
Installation	DIN-Rail		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-30 ~ +75°C		

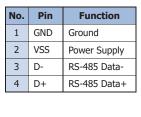
Power and communication





🖿 Pin Assignments

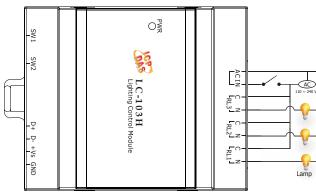




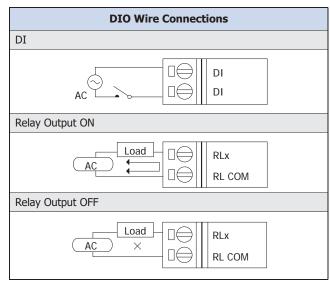
Pin. 1

No.	Pin	Function
1	RL.N	DO1 RL1 Relay Output
2	RL.C	
3	RL.N	DO2 RL2 Relay Output
4	RL.C	
5	RL.N	DO3 RL3 Relay Output
6	RL.C	
7	AC_IN	DI Wet Contact Input Channel
8	AC_IN	

Function Diagram



Wire Connections



Ordering Information

LC-103H CR	1-channel AC Digital Input and 3-channel Relay Output Lighting Control Module with High Power Relay Output (RoHS)
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Accessories

1	tM-7520U CR	RS-232 to RS-485 converter (RoHS)
	tM-7561 CR	USB to RS-485 converter (RoHS)

I-7514U	CR	4-channel RS-485 Hub (RoHS)
TPD-280) CR	2.8" Touch HMI device with RS-485 (RoHS)