

LC-101

1-channel AC Digital Input and 1-channel Relay Output Lighting Control Module

Features



Model: LC-101

Model: LC-101/DIN

- Cost-effective for lighting control
- Power Relay Output
- Isolated AC Digital Input
- Tiny form-factor
- Made from fire retardant materials (UL94-V0 Level)
- Low power consumption

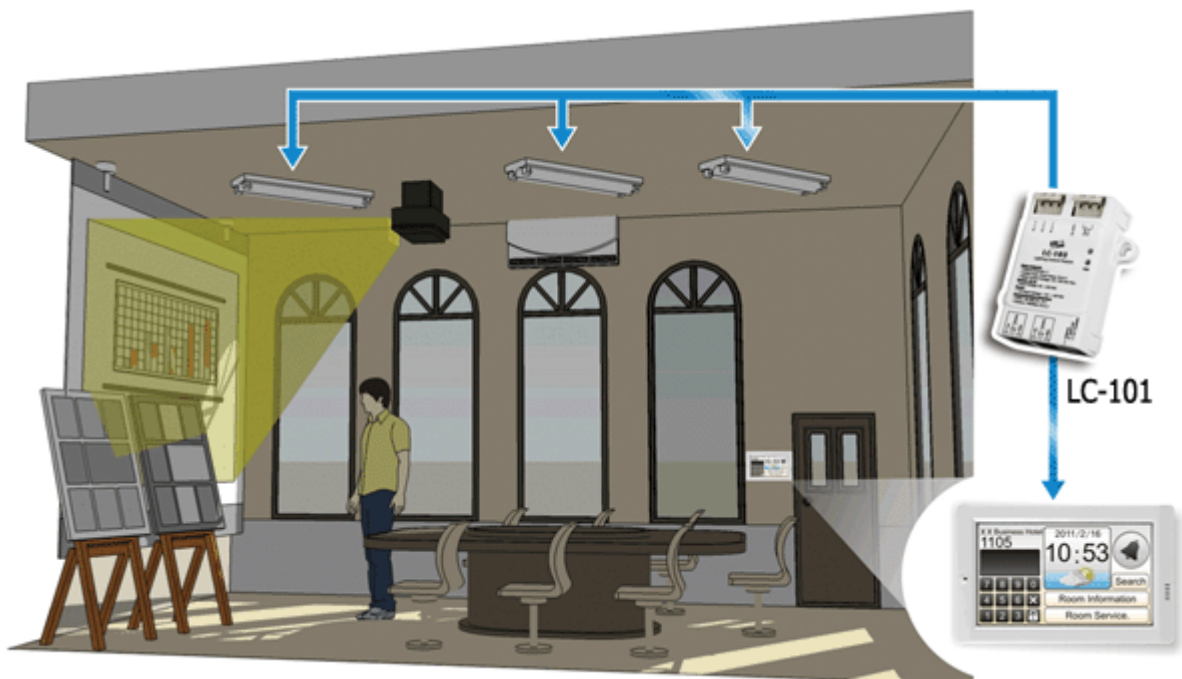
Introduction

The LC-101 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-101 provides 1 channel for digital input (photo couple isolation) and 1 channel for relay output. The output channel is form C type relay, while the input channel is based on a sink-type using a wire connection. The input channel can directly control the 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-101 is programmable based on the Modbus RTU protocol, and an added benefit is that different addresses can be set for Modbus RTU communication via hardware configuration.

Applications



I/O Specifications

Digital Input	
Input Channels	1
Type	90 ~ 240 VAC
On Voltage Level	85 VAC
Off Voltage Level	60 VAC
Input Impedance	68 K Ω , 1 W
Isolation	5000 Vrms
Function	Local and Remote Direct Control Relay ON/OFF and Remote Status Monitoring
Relay Output	
Output Channels	1
Type	Power Relay, Form C
Operating Voltage	250 VAC or 30 VDC
Max. Load Current	NO: 10 A, NC: 6 A
Operating Time	15 ms Max.
Release Time	5 ms Max.
Electrical Life (Resistive load)	100,000 ops
Mechanical Life	20,000,000 ops at no load (300 ops/minute)
Safety Approval	UL/CUL
Power-on Value	No
Safe Value	No

System Specifications

Communication	
Interface	RS-485
Format	N, 8, 1
Baud Rate	1200 ~ 115200 bps
Protocol	Modbus RTU/DCON
Node Addresses	32 ~ 63
Connector	RJ-11
LED Display	
Power	1 LED as Power Indicator
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
Power Requirements	
Input Voltage Range	10 ~ 30 VDC
Consumption	0.5 W Max.
Connector	RJ-11
Mechanical	
Dimensions (W x L x H)	52 mm x 98 mm x 27 mm
Installation	Screw Mounting
Environment	
Operating Temperature	-25°C ~ +75°C
Storage Temperature	-30°C ~ +75°C
Humidity	10 ~ 95% RH, Non-condensing

Ordering Information

LC-101 CR	1-channel AC Digital Input and 1-channel Relay Output Lighting Control Module (screw mount) (RoHS)
LC-101/DIN CR	1-channel AC Digital Input and 1-channel Relay Output Lighting Control Module (DIN Rail mount) (RoHS)

Accessories

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)