

# LC-131

3-channel Digital Input with Line Short Detection and 1-channel

- Digital Input With Line Short Detection
- Tiny Form Factor with Easy Screw Mounting

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**Relay Output Module** 

## Introduction \_

The LC-131 is an easy-to-use digital input module, equipped with 3-channel digital input, functions line short detection, and 1-channel relay output. The digital input type is dry contact, meaning that wiring is easy. There are two methods of controlling the relay outputs, either directly from the digital input or via a remote host. Settings, such as communication protocol and node address can be configured either via hardware or via software, depending on the situation. The module has also passed + / -4 kV ESD reliability test, and is designed to operate in harsh environments.

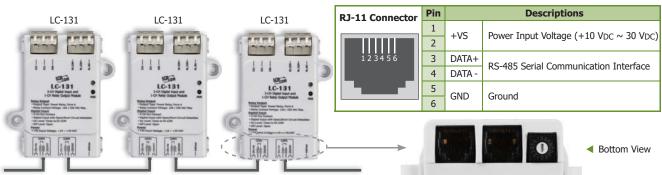
## System Specifications \_\_\_\_\_ I/O Specifications \_\_\_\_\_

Communication				
Interface	RS-485			
Format	N, 8, 1			
Baud Rate	1200 ~ 115200 bps			
Protocol	DCON, Modbus RTU			
Node Addresses	96 ~ 127			
Connector	RJ-11 (6P4C or 6P6C)			
LED Indicators				
Power	1 LED as Power Indicator			
EMS Protection				
ESD (IEC 61000-4-2)	+/-4 kV contact for each Terminal			
	+/-8 kV Air for Random Point			
EFT (IEC 61000-4-4)	+/-4 kV for Power Line			
Power				
Reverse Polarity Protection	Yes			
Powered from Terminal Block	Yes, 10 ~ 30 VDC			
Consumption	0.8 W Max.			
Mechanical				
Dimensions (W x L x H)	52 mm x 98 mm x 27 mm			
Installation	Screw Mounting			
Environment				
Operating Temperature	-25 ~ +75°C			
Storage Temperature	-30 ~ +80°C			
Humidity	10 ~ 95% RH, Non-condensing			

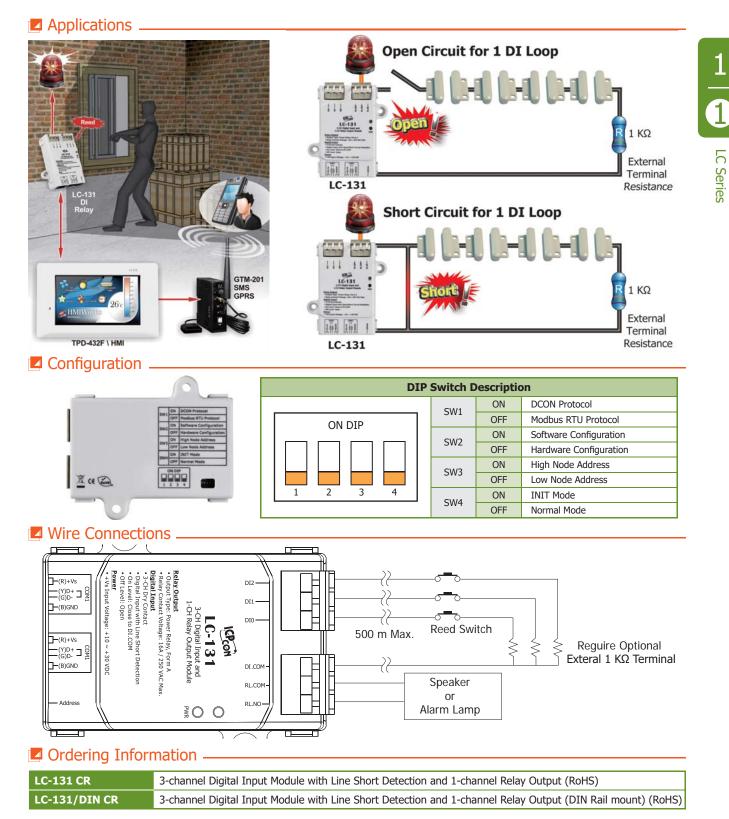
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Digital Input				
Channels		3		
Туре		Dry Contact		
On Level		Close to GND		
Off Level		Open		
Counters	Max. Count	16-bit (65535)		
	Max. Input Frequency	100 Hz		
	Min. Pulse Width	5 ms		
Line Short Detection		Yes, optioned external terminal resistance of 1 K $\Omega$ is required		
Relay Output				
Channels		1		
Туре		Power Relay, Form A (SPST N.O.)		
Operating Voltage		250 VAC or 30 VDC		
Max. Load Current		16 A (Res. load )		
Operate Time		15 ms Max.		
Release Time		5 ms Max.		
Mechanical Endurance		10,000,000 OPS		
Electrical Endurance		50,000 OPS		
Power-on and Safe Value		Yes, programmable		

### Power and Communication .



RS-485 and power input daisy chain using an RJ-11 connector



### Accessories .

tM-7520U C	RS-232 to RS-485 Converter (RoHS)	LC-485 CR	4 Channels RS-485 Active Hub (RoHS)
tM-7561 CR	USB to RS-485 Converter (RoHS)		
ΔΙ ΚΩ, 0.1% DIP Resistor	For Line Short Fuction of LC-131, LC-131/DIN	TPD-280 CR	2.8" Touch HMI Device with RS-485 (RoHS)