

|                             |                   |
|-----------------------------|-------------------|
| <b>CONTACT INPUT MODULE</b> | MODEL <b>18DI</b> |
|-----------------------------|-------------------|

**BEFORE USE ....**

Thank you for choosing us. Before use, please check contents of the package you received as outlined below. If you have any problems or questions with the product, please contact our sales office or representatives.

**■ PACKAGE INCLUDES:**

Contact input module .....(1)

**■ MODEL NO.**

Confirm Model No. marking on the product to be exactly what you ordered.

**■ INSTRUCTION MANUAL**

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

**POINTS OF CAUTION**

**■ POWER INPUT RATING & OPERATIONAL RANGE**

- Locate the power input rating marked on the product and confirm its operational range as indicated below:  
24V DC rating: 24V ±10%, approx. 30mA

**■ GENERAL PRECAUTIONS**

- Before you remove the unit or mount it, turn off the power supply and input signal for safety.

**■ ENVIRONMENT**

- Indoor use.
- When heavy dust or metal particles are present in the air, install the unit inside proper housing with sufficient ventilation.
- Do not install the unit where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- Environmental temperature must be within -5 to +55°C (23 to 131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.

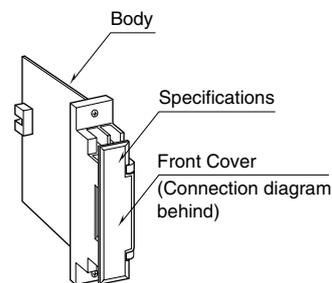
**■ WIRING**

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

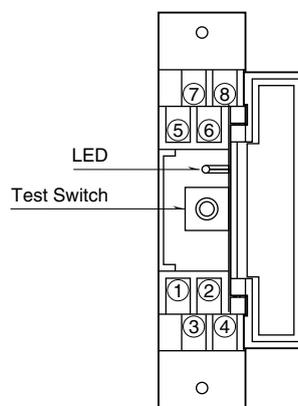
**■ AND ....**

- The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

**COMPONENT IDENTIFICATION**



**■ FRONT VIEW (with cover open)**



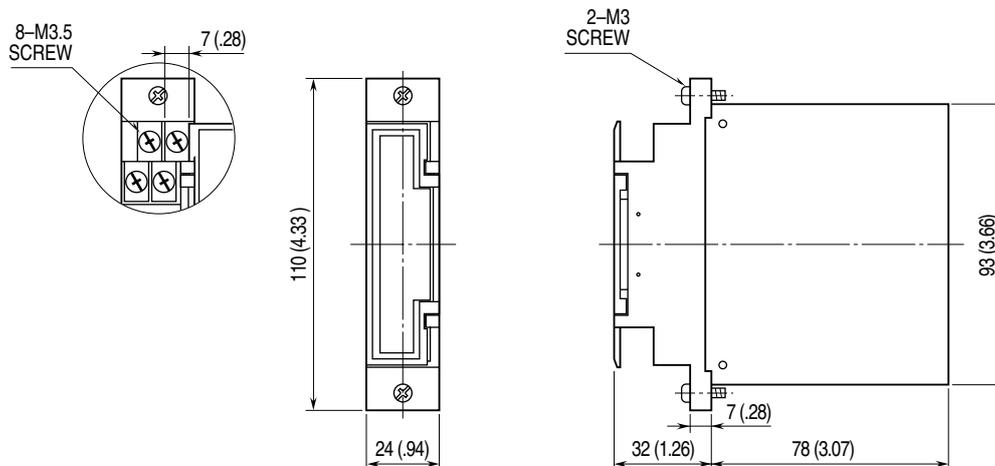
**INSTALLATION**

Use Standard Rack (model: 18BXx or 18KBXx).

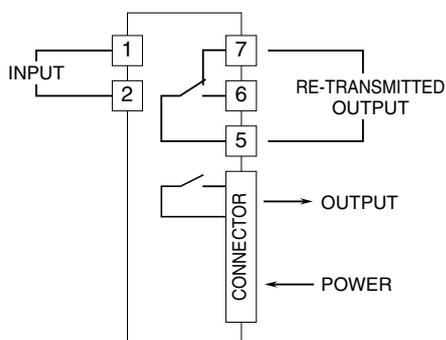
## TERMINAL CONNECTIONS

Connect the unit as in the diagram below or refer to the connection diagram behind the front cover.

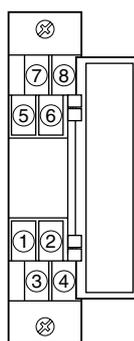
### EXTERNAL DIMENSIONS unit: mm (inch)



### CONNECTION DIAGRAM



### TERMINAL ASSIGNMENTS



## WIRING INSTRUCTIONS

### SCREW TERMINAL

Torque: 0.8 N·m

## CHECKING

- 1) Terminal wiring: Check that all cables are correctly connected according to the connection diagram.
- 2) Power input voltage: Check voltage supplied to the rack (model: 18BXx or 18KBXx). For the DC power source, be sure that the ripple level is within 10% p-p.
- 3) Input: Check that the input signal is correct.
- 4) Turn the Test Switch ON and OFF. Confirm the relay and LED operations according to the Output Operations Table.
- 5) Set the Test Switch to AUTO position. Confirm the relay and LED operations according to the Output Operations Table.
- 6) For driving an inductive load, external measures to protect the contacts and to prevent noise interference are recommended.

## OUTPUT OPERATIONS

| INPUT AND TEST SWITCH POSITION |           | LED |
|--------------------------------|-----------|-----|
| AUTO                           | Input ON  | ON  |
|                                | Input OFF | OFF |
| OFF                            |           | OFF |
| ON                             |           | ON  |

## LIGHTNING SURGE PROTECTION

We offer a series of lightning surge protector for protection against induced lightning surges. Please contact us to choose appropriate models.