

(\*3): For the QTC1-2, Event3 and Event4 are not available.



## 5.1 Selection of Communication Specifications

When connecting to the communication expansion module QMC1, the communication specification selection is not required. Use it in the factory default (all OFF).

**(1) Selection of communication speed**

Communication specification selection dip switch		Communication speed
1	2	
OFF	OFF	57600 bps
ON	OFF	38400 bps
OFF	ON	19200 bps
ON	ON	9600 bps

Communication specification selection dip switch			Data bit, parity and stop bit
3	4	5	
OFF	OFF	OFF	8 bits, Even, 1 bit
ON	OFF	OFF	8 bits, Even, 2 bits
OFF	ON	OFF	8 bits, Odd, 1 bit
ON	ON	OFF	8 bits, Odd, 2 bits
OFF	OFF	ON	8 bits, None, 1 bit
ON	OFF	ON	8 bits, None, 2 bits

Communication specification selection dip switch	Communication protocol
6	
OFF	MODBUS specification
ON	SIF specification

## 5.2 Selection of Module Address

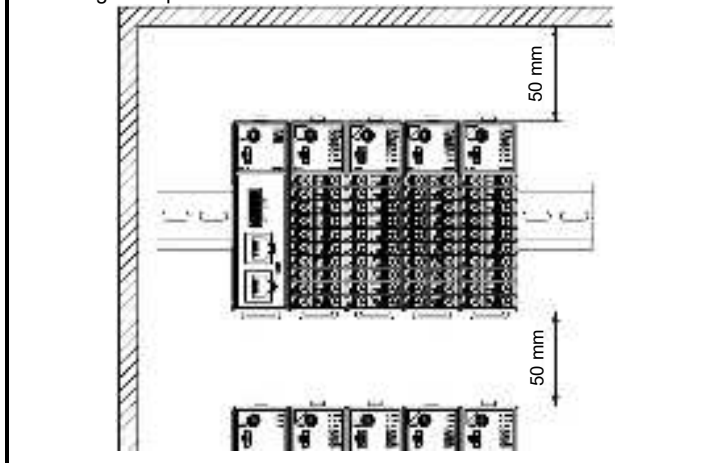
When SIF specification is selected in "Selection of communication protocol", select module addresses from 1 to consecutive numbers.  
If select MODBUS specification, select any number from 0 to F (1 to 16).

Module address selection  
rotary switch

Rotary switch	0	1		9	A	B		F
Module address	1	2		10	11	12		16

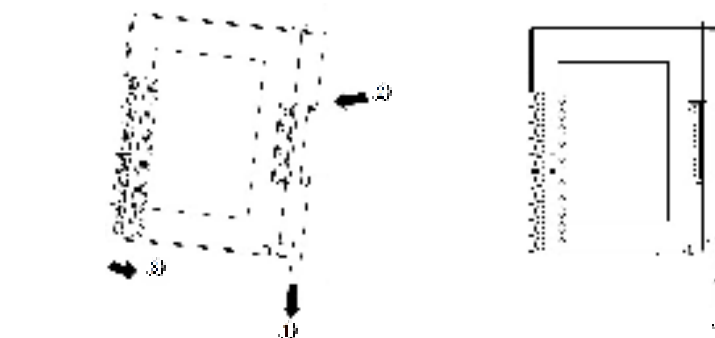
- Do not connect two or more control module QTC1-2P (with power supply / communication option) or QTC1-4P (with power supply / communication option) in one unit.
- Mount the DIN rail horizontally.
- This instrument fits the following DIN rails.  
Top hat rail TH35 JIS C 2812-1988
- If this instrument is mounted in a position susceptible to vibration or shock, mount commercially available end plate at both ends of the instrument.
- When installing, make sure that the orientation (upper and lower) of this instrument is correct.

- ## Mounting example



### Mounting to the DIN rail

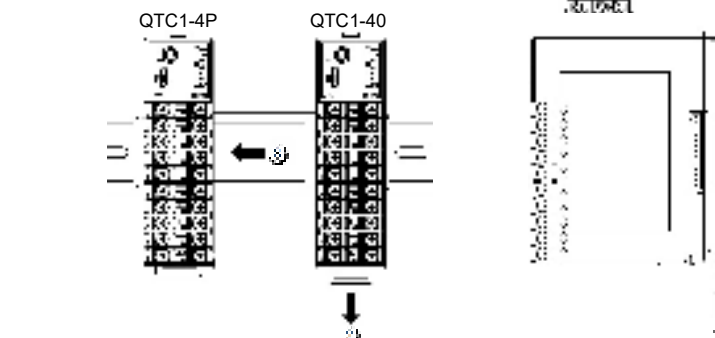
- ① Lower the lock lever of this instrument. (The lock lever of this instrument has a spring structure, but if lower it in the direction of the arrow until it stops, it will be locked in that position.)
- ② Hook the part ② of this instrument onto the top of the DIN rail.
- ③ Insert the lower part of this instrument with the part ② as a fulcrum.
- ④ Raise the lock lever of this instrument.  
Make sure it is fixed to the DIN rail.



- ① Insert a flat blade screwdriver into the lock lever of this instrument and lower the lock lever until it stops.
- ② Remove this instrument from the DIN rail by lifting it from below.

This section describes an example of mounting multiple control modules QTC1-4 on the DIN rail.

- ① Remove the line cap on the right side of the QTC1-4P.
- ② Lower the lock lever of the QTC1-40, and mounting the QTC1-40 to the DIN rail.
- ③ Slide the QTC1-40 to the left and connect the connectors to each other.
- ④ Raise the lock lever of this instrument. Make sure it is fixed to the DIN rail.



QTC1-4

Terminal cover  
(Sold separately)

DIN rail

2.5

100

4

4.7

30

1.7

Line cap

10

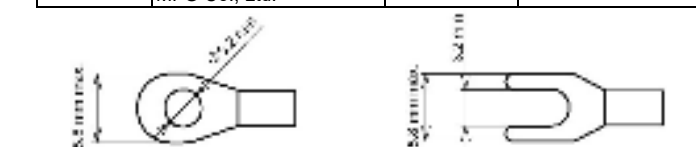
85

(4)

Turn off the power supply to this instrument before wiring.  
If you work while the power is supplied, you may get an electric shock,  
which could result in an accident resulting in death or serious injury.

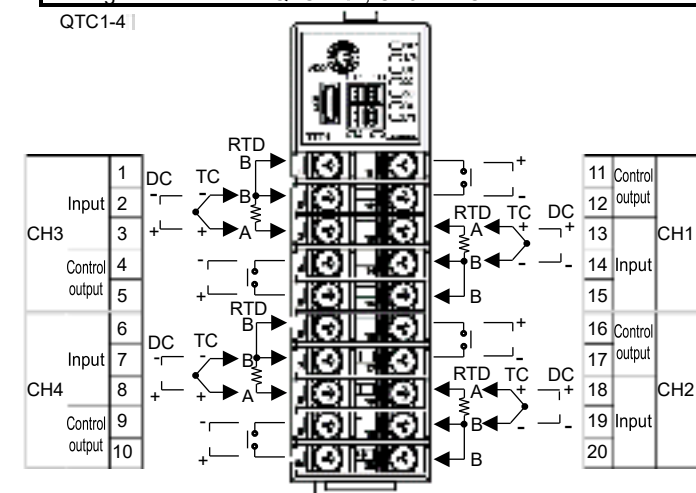
Use a solderless terminal with an insulation sleeve in which an M3 screw fits as shown below. Use the Ring-type for the power supply and serial communication section.

Solderless Terminal	Manufacturer	Model	Tightening torque
Y-type	Nichifu Terminal Industries Co., Ltd.	TMEX1.25Y-3	Input/output section: 0.63 N · m Power supply section: 0.5 N · m serial communication section: 0.3 N · m
	Japan Solderless Terminal MFG Co., Ltd.	VD1.25-B3A	
Ring-type	Nichifu Terminal Industries Co., Ltd.	TMEX1.25-3	
	Japan Solderless Terminal MFG Co., Ltd.	V1.25-3	



### 7.2.1 Input and Output Terminal Arrangement

Please note that CH1, CH2 and CH3, CH4 have different terminal arrangements. For the QTC1-2, CH3 and CH4 are not available.



Do not confuse the polarities.

Power supply voltage  
24 V DC

Serial communication  
RS-485

YA YB SG

Using the connector harness EVQ for event input/output. For the QTC1-2<sup>+</sup>, Event3 and Event4 are not available.

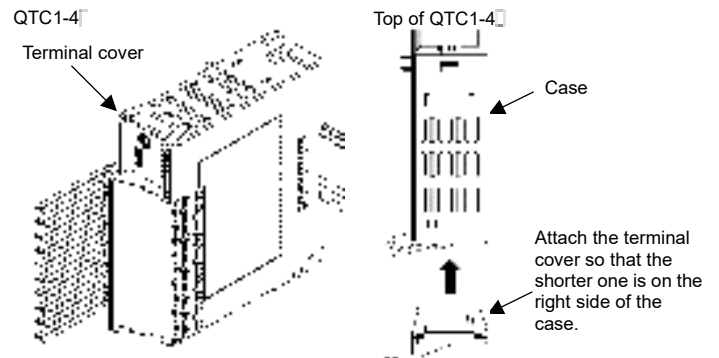


Using the connector harness WQ for heater burnout alarm.  
For the QTC1-2 II, wiring by the following procedure.

CH1	CH2	CH3	CH4
CT1 input: CT1	CT1 input: CT2	CT1 input: CT3	CT1 input: CT4
CT2 input: CT3	CT2 input: CT4	CT2 input: CT1	CT2 input: CT2



Attach the terminal cover TC-QTC (sold separately) so that the shorter one is on the right side of the case.  
For the wiring of terminal numbers 11 to 20, pass through the left side of the terminal cover.



Head Office: 2-5-1, Senbahigashi Minoo, Osaka Japan  
URL: <https://shinko-technos.co.jp/e/> Tel: +81-72-727-6100  
E-mail: [overseas@shinko-technos.co.jp](mailto:overseas@shinko-technos.co.jp) Fax: +81-72-727-7006