

MODEL	Q6TE-18SN-U
MODEL CODE	13J271
IB(NA)-0800476-B (1107)	

## Spring Clamp Terminal Block Model Q6TE-18SN User's Manual

### 1. Overview

This manual explains how to use the spring clamp terminal block model Q6TE-18SN (hereinafter referred to as the Q6TE-18SN).

The Q6TE-18SN shall be used attached to a Q-Series terminal block-type I/O module or an intelligent function module. Since the Q6TE-18SN uses a spring clamp, it does not require screw-tightening, which greatly reduces the number of wiring procedures.

**Before using the product, please read "Safety Guidelines" that is supplied with the base unit.**

### 2. Compatible Models

The Q6TE-18SN can be used with the following models:

Model type	Model name					
I/O module	QX10	QX28	QX40	QX40H	QX40-S1	QX50
	QX70	QX70H	QX80	QX80H	QX90H	QY10
	QY18A	QY22	QY40P	QY50	QY68A	QY70
	QY80	QX48Y57	QI60			
Intelligent function module	Q62DA	Q62DAN	Q62DA-FG	Q64DA	Q64DAN	Q68DAV
	Q68DAVN	Q68DAI	Q68DAIN	Q62AD-DGH	Q64AD	Q64AD-GH
	Q68ADV	Q68ADI	Q64AD2DA	Q64TCRT	Q64TCRTBW	Q64TCRTN
	Q64TCRTBWN	Q64RD	Q64RD-G	QD60P8-G	Q61LD	

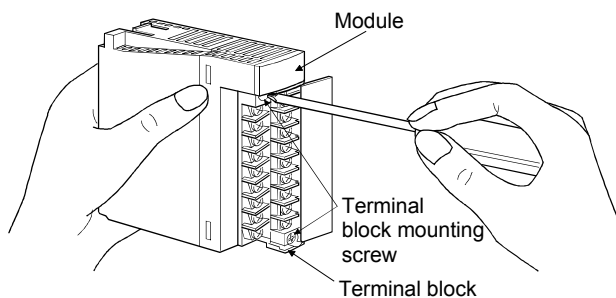
### 3. Specifications

Item	Specifications
Applicable wire size	0.3 to 1.5 mm <sup>2</sup> (AWG22 to 16)
Wire strip length	8 to 11 mm
Terminal block mounting screw tightening torque range	0.66 to 0.89 N•m
Weight	0.07kg

### 4. Removal of Terminal Block and Installation of Q6TE-18SN

#### (1) Removal of terminal block

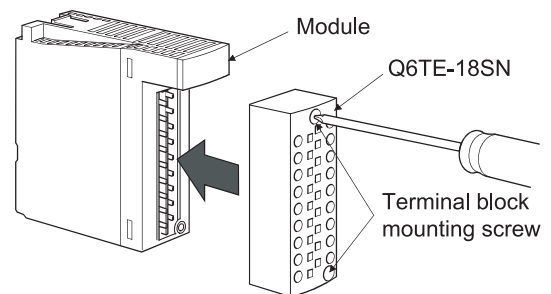
Unscrew the two terminal block mounting screws situated at the top and bottom of the terminal block. Gently remove the terminal block.



#### (2) Installation of Q6TE-18SN

- (a) Remove the protection cap from the Q6TE-18SN.\*1
- (b) Attach the Q6TE-18SN to the module.

Tighten the terminal block mounting screws within the specified torque range.



\*1: Keep the protection cap after removing it. When the Q6TE-18SN is not used, attach the cap to protect the terminal area.

### 5. Cable Installation Procedure

#### (1) Precaution for installing or removing cables

- (a) Insert only one wire into the circular shaped hole of the spring clamp terminal block.

Inserting two or more wires may result in a poor contact to the terminal part.

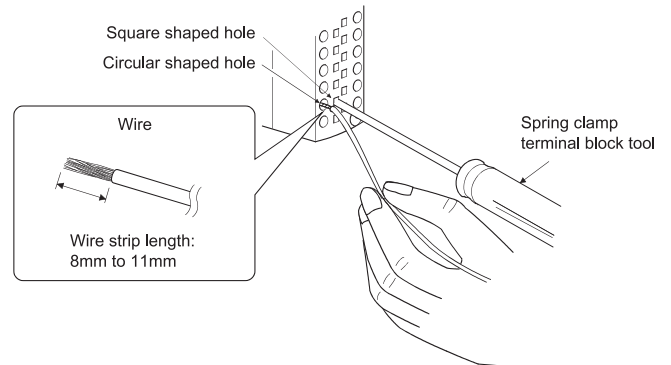
- (b) Strip the wire according to the specification. If the wire strip length is too long, the exposed conductive part may cause electric shock or short circuit. If the wire strip length is too short, it may result in a poor contact to the spring clamp terminal part.

(c) When using a spring clamp terminal block tool, follow the instruction below. Failure to do so may cause damage of the spring clamp terminal part or the terminal block resin part.

- Use a dedicated tool for a spring clamp terminal block.
- Do not insert the wire or the bar solderless terminal before inserting the tool into the square shaped hole.
- Insert the tool vertically into the hole.

(2) Cable Installation

- Insert the tool vertically all the way inside the square shaped hole of the Q6TE-18SN.
- Insert the wire or the bar solderless terminal into the circular shaped hole, and remove the tool from the hole.
- Check that the wire or the bar solderless terminal is firmly clamped by pulling it lightly.



(3) Cable removal

- Insert the tool vertically all the way inside the square shaped hole of the Q6TE-18SN.
- Pull the wire or the bar solderless terminal out of the hole.

6. External Connections

The terminal numbers of the Q6TE-18SN correspond to the terminal numbers on the compatible modules.

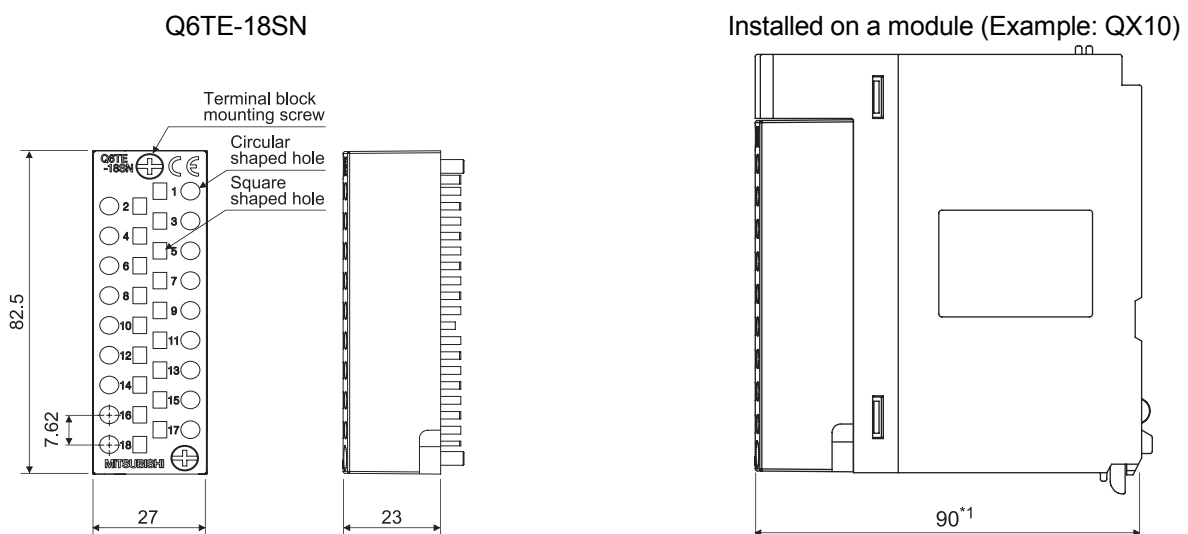
For the signal names corresponding to the terminal numbers when an external device is connected, please refer to the User's Manual for the module to be used.

7. List of Introductory Products

Product name	Model name	Applicable wire size	Contact
Spring clamp terminal block tool	KD-5339	—	Mitsubishi Electric System Service Co., Ltd.
Bar solderless terminal*1	TE 0.5-8, TE 0.5-10	0.5mm <sup>2</sup>	NICHIFU TERMINAL INDUSTRIES CO.,LTD
	TE 0.75-8, TE 0.75-10	0.75mm <sup>2</sup>	
	TE 1.0-8, TE 1.0-10	0.9 to 1.0mm <sup>2</sup>	
	TE 1.5-8, TE 1.5-10	1.25 to 1.5 mm <sup>2</sup>	
Tool dedicated for bar solderless terminal	NH79	—	

\*1: Use this product when doing the terminal treatment of the wire and inserting it into the spring clamp terminal block.

8. External Dimensions



Unit: mm

\*1: The depth of the module installed with a Q6TE-18SN is equivalent with the factory default dimensions for that module.