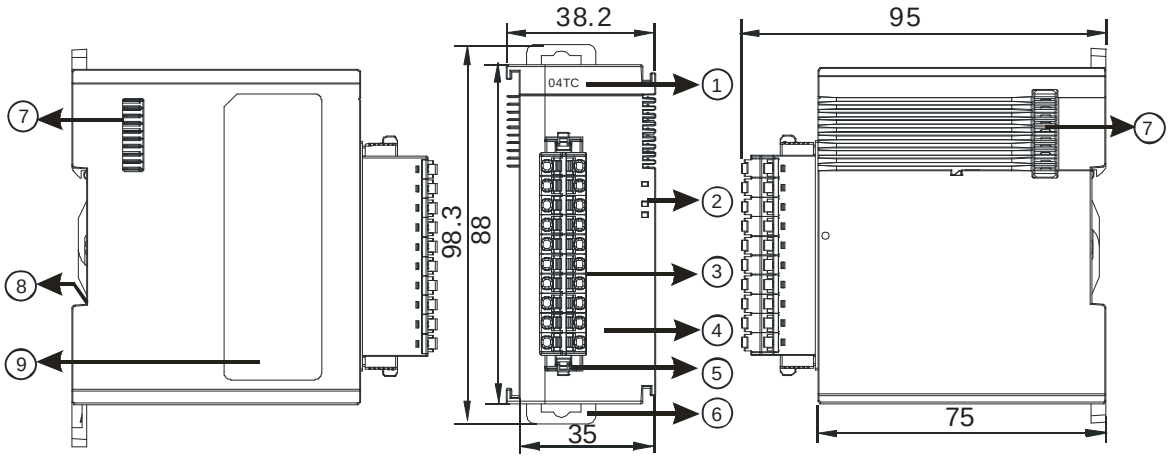
7.2.2 Profile



Unit: mm

Number	Name	Description
1	Model Name	Model name of the module
2	RUN LED Indicator	Operating status of the module ON: the module is running. OFF: the module is not running.
	ERROR LED Indicator	Error status of the module ON: a serious error exists in the module. OFF: the module is operating normally. Blink: a minor error exists in the module.
	Analog-to-Digital Conversion Indicator	Conversion status Blinking: conversion is in process. OFF: conversion has stopped.
3	Removable Terminal Block	The inputs are connected to transducers. The outputs are connected to loads to be driven.
4	Arrangement of the Input/Output Terminals	Arrangement of the terminals
5	Clip	For removing the terminal block
6	DIN rail clip	Secures the module onto the DIN rail
7	Module connecting set	Connects the modules
8	Ground clip	
9	Label	Nameplate

7.2.8 Wiring

- **Precautions**

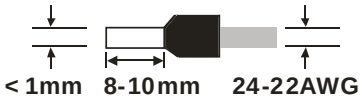
To ensure the analog-to-digital module functions well and reliably, the external wiring must prevent noise. Before you install the cables, follow the precautions below.

(1) To prevent a surge and induction, the AC cable and the input signal cables that are connected to the ASTC-A Series must be separate cables.

(2) Do not install the cable near a main circuit, a high-voltage cable, or a cable connected to a load which is not a PLC. In addition, the cable must not be bound to a main circuit, a high-voltage cable, or a cable connected to a load which is not a PLC.

(3) Ground shielded cables and hermetically sealed cables separately.

(4) To wire a terminal block, use single-core cables or multi-core cables in a diameter of 24 AWG–22 AWG with pin-type connectors smaller than 1 mm in diameter, which are covered with an insulation tube as below. Moreover, use only copper conducting wires that can withstand temperatures above 60°C-75°C.

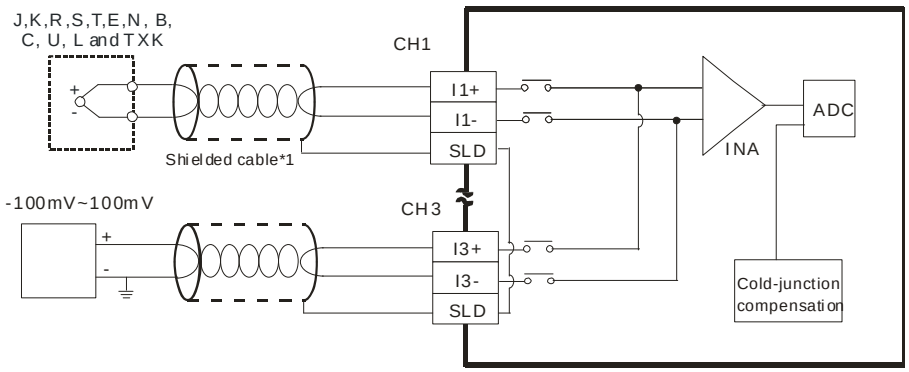


(5) Do not wire empty terminals.

(6) Only use copper conducting wires with a temperature rating of 60/75°C and the length must be less than 50 m.

(7) TC modules must run for 30 minutes before they start to take any temperature measurement.

- **External wiring**



*1. Use shielded twisted pair cables for Type J, K, R, S, T, E, N, B, C, U, L and TXK thermocouples, and keep them separate from power cables and other cables which generate noise.