INSTRUCTION MANUAL

ANALOG I/O MODULE
(Fuji Electric T-Link use)

MODEL **60F**

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:

Analog I/O module (body + base socket) .....(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:
  85 – 132V AC rating**:** 85 – 132V, 47 – 66 Hz, approx. 3VA
  24V DC rating**:** 24V ±10%, approx. 4W

■ GENERAL PRECAUTIONS

- Before you remove the unit from its base socket or mount it, turn off the power supply, input signal and output 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...

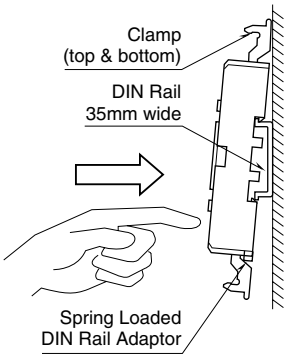
- The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

INSTALLATION

Detach the yellow clamps located at the top and bottom of the unit for separating the body from the base socket.

■ DIN RAIL MOUNTING

Set the base socket so that its DIN rail adaptor is at the bottom. Position the upper hook at the rear side of base socket on the DIN rail and push in the lower. When removing the socket, push down the DIN rail adaptor utilizing a minus screwdriver and pull.

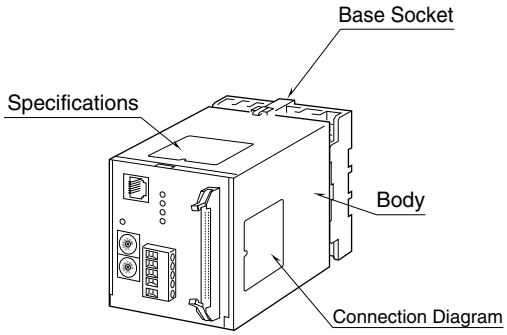


Shape and size of the base socket are slightly different with various socket types.

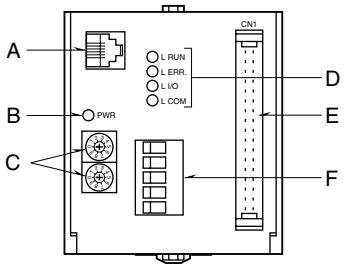
■ WALL MOUNTING

Refer to "EXTERNAL DIMENSIONS."

COMPONENT IDENTIFICATION



■ **FRONT PANEL CONFIGURATION**

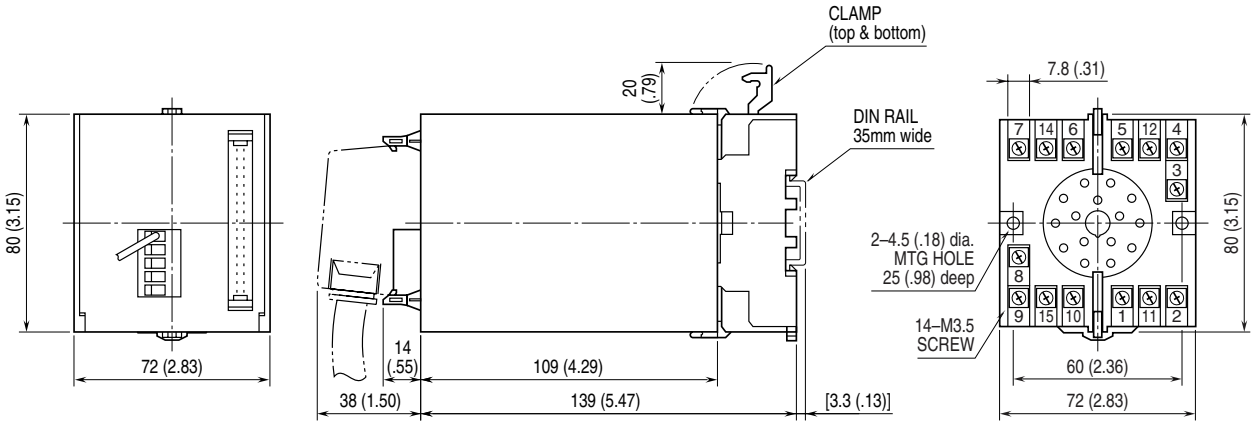


SETTING	NAME	FUNCTIONS	
A	Modular jack for factory calibration	Used only for factory calibration.	
B	Power indicator LED	MARKING (color)	FUNCTIONS
		PWR (green)	ON: Powered OFF: No power
C	Station No. setting	Selectable within 00 –99. (factory set to: 00)	
D	Status indicator LED	MARKING (color)	FUNCTIONS
		L RUN (red)	ON: Normal Communication OFF: Communication Cutoff (Timeout Error)
		L ERR. (red)	ON: Communication Data Error OFF: Normal Communication
		L I/O (red)	Blinking during normal I/O function
		L COM (red)	Blinking during normal T-Link Communication
E	I/O connector	For input and output signals	
F	Euro type connector terminal for T-Link	For wiring to T-Link	

TERMINAL CONNECTIONS

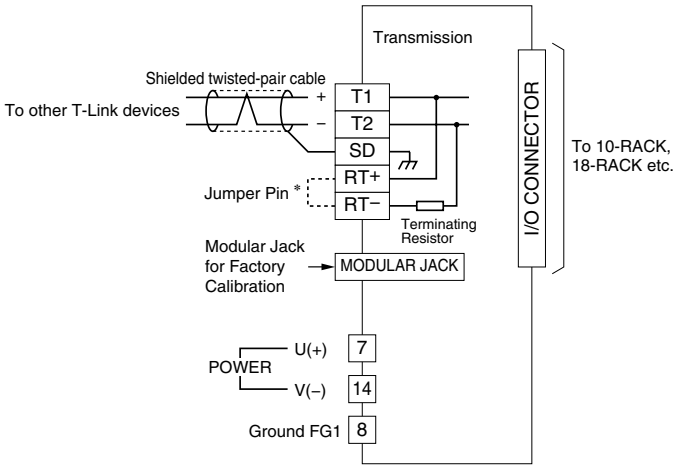
Connect the unit as in the diagram below or refer to the connection diagram on the side of the unit.

■ EXTERNAL DIMENSIONS unit: mm (inch)



•When mounting, no extra space is needed between units.

■ CONNECTION DIAGRAM



* When the unit is located at the end of transmission line via twisted-pair cable (= when there is no cross-wiring), short across terminals RT+ and RT- with the included jumper pin (or wiring).
When the unit is wired into the middle of the transmission line, remove the jumper pin from terminals RT+ and RT-.
Note: Use T1, T2, SD terminals for cross-wiring.

I/O CONNECTOR PIN ASSIGNMENTS (34 PINS)

■ **INPUT CONNECTOR**

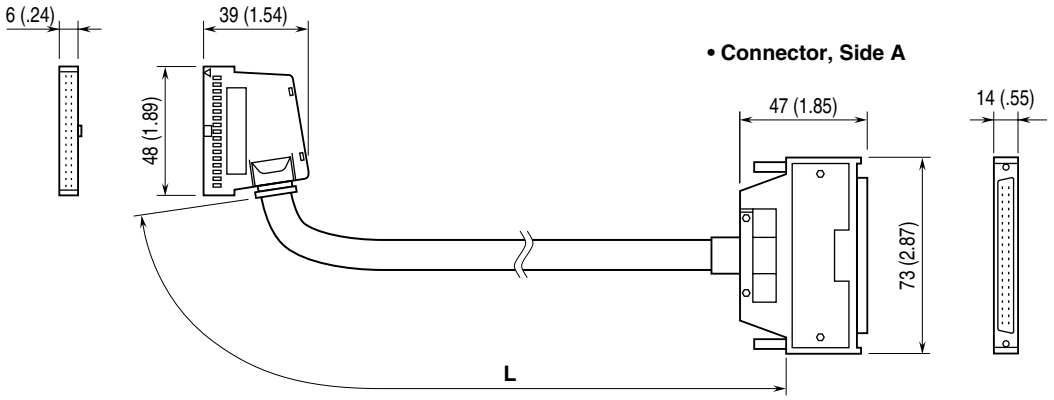
PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	Input 1	2	COM
3	Input 2	4	COM
5	Input 3	6	COM
7	Input 4	8	COM
9	Input 5	10	COM
11	Input 6	12	COM
13	Input 7	14	COM
15	Input 8	16	COM
17	Input 9	18	COM
19	Input 10	20	COM
21	Input 11	22	COM
23	Input 12	24	COM
25	Input 13	26	COM
27	Input 14	28	COM
29	Input 15	30	COM
31	Input 16	32	COM
33	No connection	34	No connection

■ **OUTPUT CONNECTOR**

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	Output 1	2	COM
3	Output 2	4	COM
5	Output 3	6	COM
7	Output 4	8	COM
9	Output 5	10	COM
11	Output 6	12	COM
13	Output 7	14	COM
15	Output 8	16	COM
17	Output 9	18	COM
19	Output 10	20	COM
21	Output 11	22	COM
23	Output 12	24	COM
25	Output 13	26	COM
27	Output 14	28	COM
29	Output 15	30	COM
31	Output 16	32	COM
33	No connection	34	No connection

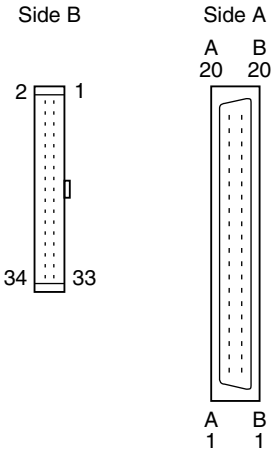
CABLE (MODEL: MCN34) PIN ASSIGNMENTS

• Connector, Side B

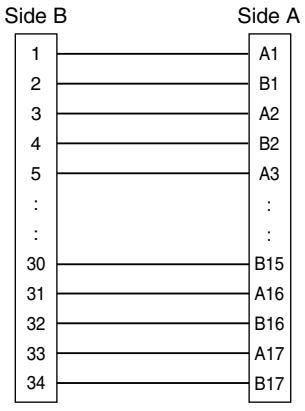


	MCN34-03	MCN34-05	MCN34-10	MCN34-30
L	30 cm (11.8 in.)	50 cm (19.7 in.)	1 m (3.3 ft.)	3 m (9.8 ft.)

■ **CONNECTOR PIN ASSIGNMENT**



■ **WIRING DIAGRAM**



Pins No. A18 – B20 on Side A are not connected.

WIRING INSTRUCTIONS

■ SCREW TERMINAL

Torque: 0.8 N·m

■ EURO TYPE CONNECTOR TERMINAL (T-Link)

Applicable wire size: 0.2 to 2.5 mm^2 (AWG24 to 12)
Stripped length: 7 mm

LIGHTNING SURGE PROTECTION

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