External Dimensions

Unit: mm
(approx. inch)

Note:
Trigonometry
General tolerance = ±(JIS B 0401-1998 tolerance class IT18)/2
Terminal Wiring Diagrams

Control output

- OUT
- Factory default: Control output is a relay.

Contact output

- ALM (Equipped as standard)
- External contact output (relay)
- Alarm-3 output (PV high limit)
- Common
- Alarm-2 output (PV low limit)
- Common
- Alarm-1 output (PV high limit)
- Common
- Relay contact rating: 24 V AC/DC 1 A, 30 V DC, 1 A (resistance load)

Power supply

- 24 V AC/DC power supply
  - 240 V AC/DC supply: Optional suffix code /DC
  - Factory default: Power supply is 24 V AC/DC.

PV input

- TC input
- RTD input
- Current (mA) input
- Voltage (mV, V) input

Retransmission output

- 15 V DC loop power supply
- 14.5-18.0 V DC (Max. 21 mA DC)
- Can be used for 15 V DC loop power supply when not used for retransmission output.

Control output (OUT)

- 15 V DC loop power supply
- 14.5-18.0 V DC (Max. 21 mA DC)
- Can be used for retransmission output or 15 V DC loop power supply when current/voltage pulse output is not used for control output.

Contact input

- DI (Equipped as standard)
-External contact input
- Function can be assigned to the terminals with no function.

Wiring direction

- E1-terminal area
- 101-112
- 301-312
- 201-212

Factory default: PV input type is undefined.
Terminal Wiring Diagrams (E1-Terminal Area)

(Suffix code: Type 2=1) **RS-485**

**RS-485 communication / Remote input / Contact input**

- **Remote input**
  - Default: 1-5 V DC
  - External contact input
    - DI16
    - COM
    - +5V
    - No-voltage contact
    - Transistor contact
    - Contact rating: 12 V DC, 10 mA or more
- **RS/RS485**
  - Remote when DI16=ON
  - LOCAL when DI16=OFF
- **RSP/RS485**
  - Specify within a range of 1-5 V DC, 0-2 V DC, 0-10 V DC

(Suffix code: Type 3=3) **CC-L**

**CC-Link communication (with Modbus master)**

- **Electrical connection**
  - PG: Flame ground
  - SLD: Shield
  - DG: TX/RX signal ground
  - DB: RX/TX signal – signal
  - DA: RX/TX signal + signal
  - CHK (red): Lit: User profile error/Address error, Unlit: Normal
  - L ERR (red): Lit: Communication failure (CRC error), Unlit: Normal
  - L RUN (green): Lit: Normal, Unlit: No carrier detected/Communication timeout
  - Not used

If the UT is located at the end of a segment for the CC-Link communication wiring, terminating resistors are separately needed. These are to be prepared by users (110 Ω: 1 pc.).

**RS-485**

- RSB (+)
- RSA (-)
- SG

**CC-Link**

- Specified within a range of 1-5 V DC, 0-2 V DC, 0-10 V DC

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301-312 E1-Terminal Area