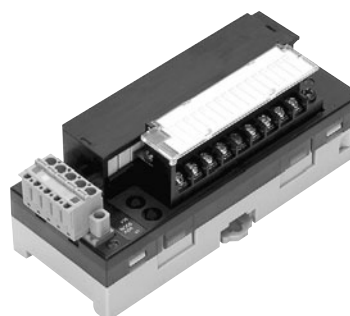
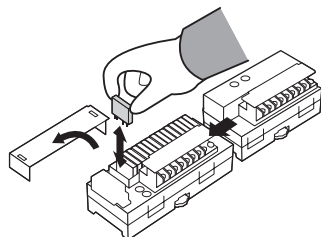


Remote I/O Terminal with Relay Outputs

DRT2-ROS16

A Smart Slave with Relay Outputs and One-step Relay Replacement for Remote Maintenance.

- Capable of handling large-capacity output devices (3 A max.)
- Easy relay replacement.



- I/O expansion possible to transistor I/O devices with terminal blocks (XWT Series).

Smart Slave Functions

| | | |
|--------------------------------------|-----------------------------------|------------------------------|
| Operation time monitor * | Contact operation counter | Unit conduction time monitor |
| Total ON time monitor | Unit comments | Connected device comments |
| Network power supply voltage monitor | Communications error log function | Removable terminal block |
| Communications speed auto-detection | No need to wire Unit power supply | Last maintenance date |

* Applicable only when an Expansion Unit (XWT Series) is used.

Ordering Information

| Specifications | | I/O connections | Rated internal circuit power supply voltage | I/O power supply voltage | Model |
|----------------|-----------|-------------------|---|--|------------|
| Relay output | 16 points | M3 terminal block | Supplied from the communications connector | Supplied from communications connector | DRT2-ROS16 |

General Specifications

| | |
|-------------------------------------|--|
| Communications power supply voltage | 11 to 25 VDC (Supplied from communications connector) |
| Noise immunity | Conforms to IEC61000-4-4, 2 kV (power line) |
| Vibration resistance | 10 to 55 Hz, 0.7-mm double amplitude |
| Shock resistance | 100 m/s ² |
| Dielectric strength | 500 VAC (between isolated circuits) |
| Insulation resistance | 20 MΩ min. |
| Ambient operating temperature | -10°C to 55°C |
| Ambient operating humidity | 25% to 85% (with no condensation) |
| Ambient atmosphere | No corrosive gases |
| Ambient storage temperature | -25°C to 65°C |
| Mounting method | 35-mm DIN rail mounting |
| Screw tightening torque | M2 (communications connector screws): 0.2 to 0.3 N·m M3 (screw terminals): 0.5 N·m M3 (mounting screws): 0.5 N·m |
| Weight | 260 g max. |

Output Specifications per Relay

| | |
|--|--|
| Mounted relays | DRTA-NY5W-K *1 |
| Rated load | Resistive load: 2 A at 250 VAC, 8 A per common 2 A at 30 VDC, 8 A per common |
| Rated current | 3A *2 |
| Max. contact voltage | 250 VAC, 125 VDC |
| Max. contact current | 3A |
| Max. switching capacity | 750 VA AC, 90 VDC |
| Min. applicable load (reference value) | 1 mA at 5 VDC |

*1. Order replacement relays using the following model number.

| Model |
|-------------|
| DRTA-NY5W-K |

The maximum number of ON contacts per common is four, and 3 A (10 A per common) will flow at an ambient temperature of 45°C max.

Expansion Units

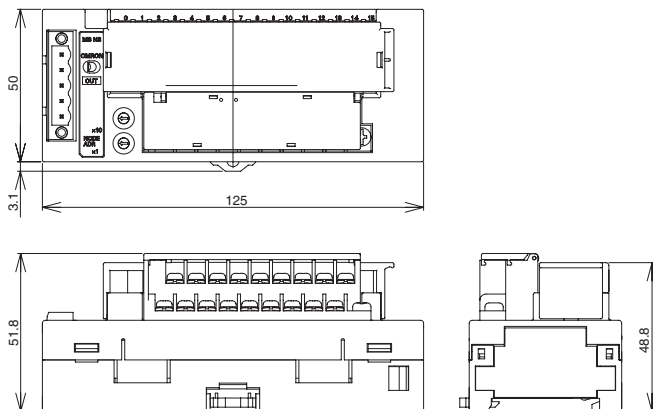
One Expansion Unit can be added to each DRT2-ID16(-1)/-OD16(-1) or DRT2-ROS16 I/O Slave.
 The following Expansion Units are available to enable flexible expansion with combinations for the required number of points.

| Model | Number of I/O points |
|------------|------------------------|
| XWT-ID08 | 8-point inputs (NPN) |
| XWT-ID08-1 | 8-point inputs (PNP) |
| XWT-OD08 | 8-point outputs (NPN) |
| XWT-OD08-1 | 8-point outputs (PNP) |
| XWT-ID16 | 16-point inputs (NPN) |
| XWT-ID16-1 | 16-point inputs (PNP) |
| XWT-OD16 | 16-point outputs (NPN) |
| XWT-OD16-1 | 16-point outputs (PNP) |

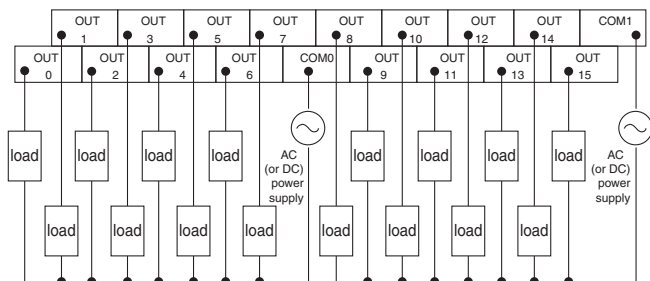
Dimensions

(Unit: mm)

DRT2-ROS16



Wiring Diagrams



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