

## DeviceNet Smart Slaves

# Relay Output

# Remote I/O Terminal

### DRT2-ROS16

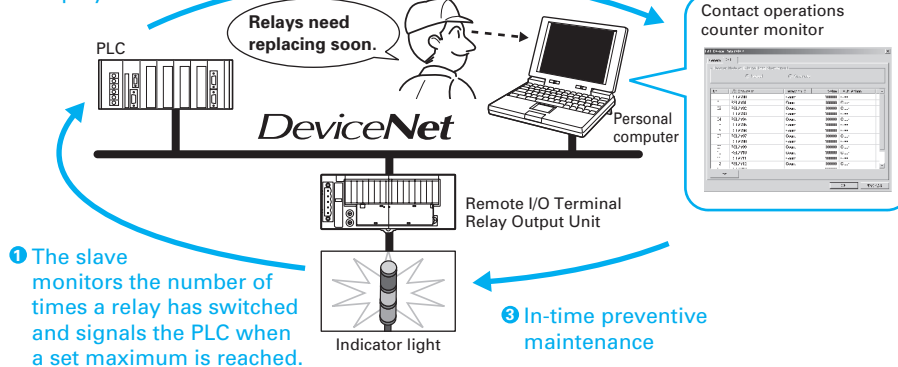
Smart Slaves with remote maintenance functions now include Relay Output Terminals.



The best for preventive maintenance.

### Smart Slave Functions

② Easy-to-read Configurator displays.



### Functions

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Contact operations counter                      | <input type="checkbox"/> |
| Unit ON time monitor function                   | <input type="checkbox"/> |
| Total ON time monitor function                  | <input type="checkbox"/> |
| Slave comment/connected device comment function | <input type="checkbox"/> |
| Network power supply voltage monitor            | <input type="checkbox"/> |
| Addition of Expansion I/O Units                 | <input type="checkbox"/> |
| Communications error log                        | <input type="checkbox"/> |
| Shared I/O and communications power supply      | <input type="checkbox"/> |
| Baud rate auto-detection                        | <input type="checkbox"/> |

**Note:** Refer to the DRT2 Series DeviceNet Slaves Operation Manual (Cat. No. 404) for details on each function. The operation time monitor function is supported when used together with an Input Expansion Unit.

Compatible with large-capacity output devices.

### Maintenance capabilities enhanced by replaceable relays.

Slim power relays (5 mm width)

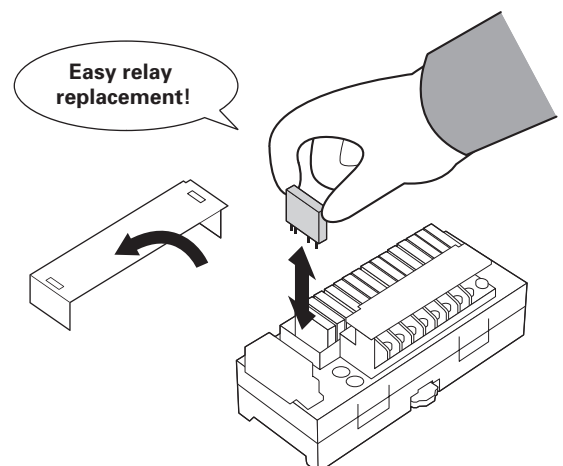
#### Life of Mounted Relays

| Item            | Life                       |
|-----------------|----------------------------|
| Mechanical life | 20 million operations min. |
| Electrical life | 100,000 operations min.    |

#### Output Section Specifications (per Relay Contact)

| Item                                   | Specification                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------|
| Mounted relay                          | DRTA-NY5W-K (5 VDC)                                                              |
| Rated load                             | Resistive load; 2 A at 250 VAC, 8 A per common;<br>2 A at 30 VDC, 8 A per common |
| Rated carry current                    | 3 A (See note.)                                                                  |
| Max. contact voltage                   | 250 VAC, 125 VDC                                                                 |
| Max. contact current                   | 3 A                                                                              |
| Max. switching capacity                | 750 VAC, 90 VDC                                                                  |
| Min. applicable load (reference value) | 5 VDC, 1 mA                                                                      |

**Note:** The rated carrying current is 3 A maximum per contact with 10 A per common. But then there may not be more than 4 contacts per common switch ON. The ambient temperature must be below 45°C.



**Innovation**  
**in the Solution Age**

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Expansion Systems

Addition of Expansion Units

XWT-series Expansion I/O Units are easily added. This allows free expansion of contacts. Separate wiring of I/O power supply to Expansion I/O Units is required. Note: Refer to the manual for details on the XWT Series.

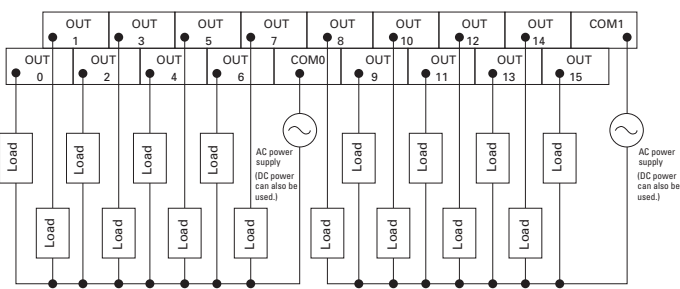
Common Specifications

| Item                                     | Specification                                                                                           |
|------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Communications power supply voltage      | 11 to 25 VDC (Supplied from the communications connector.)                                              |
| Communications power current consumption | 395 mA                                                                                                  |
| 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/s²                                                                                                |
| Dielectric strength                      | 500 VAC (between isolated circuits)                                                                     |
| Insulation resistance                    | 20 MΩ min.                                                                                              |
| Ambient operating temperature            | −10 to 55°C                                                                                             |
| Ambient humidity                         | Operating: 25% to 85% (with no condensation)                                                            |
| Ambient environment                      | Must be free from corrosive gases.                                                                      |
| Ambient storage temperature              | −25 to 65°C                                                                                             |
| Mounting method                          | 35-mm DIN Track mounting                                                                                |
| Screw tightening torque                  | M2 (screws to secure communications connector): 0.26 to 0.3 N•m<br>M3 (screw terminals): 0.3 to 0.5 N•m |
| Weight                                   | 260 g max.                                                                                              |

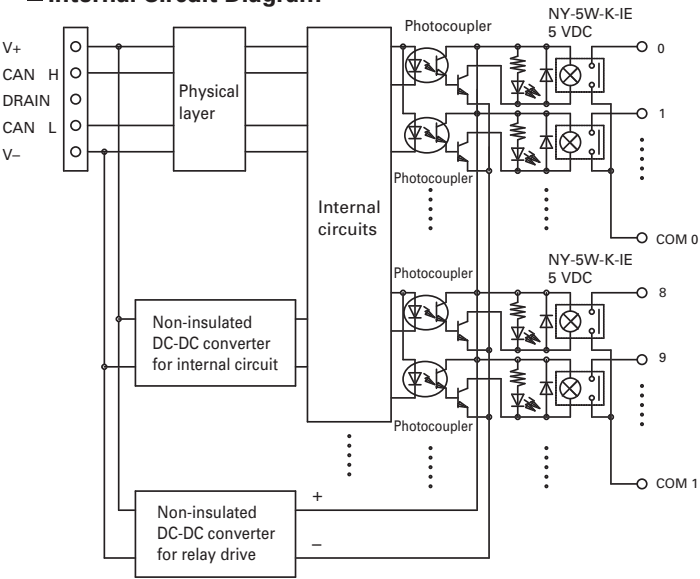
Standard Models

| Model number |
|--------------|
| DRT2-ROS16   |

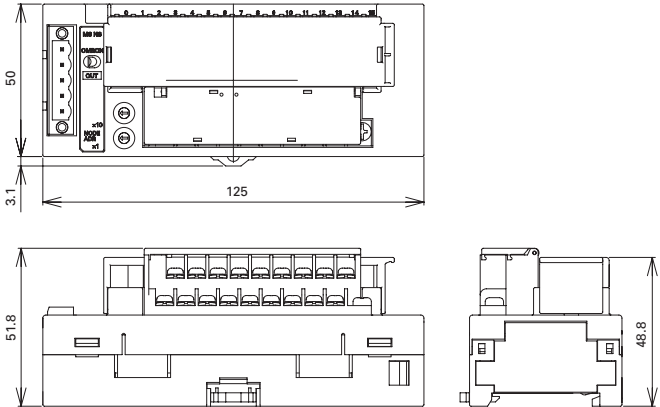
Wiring



Internal Circuit Diagram



Dimensions



Note: Do not use this document to operate the Unit.



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