New!

OMRON

DeviceNet Smart Slaves

Remote I/O Terminals with Transistors
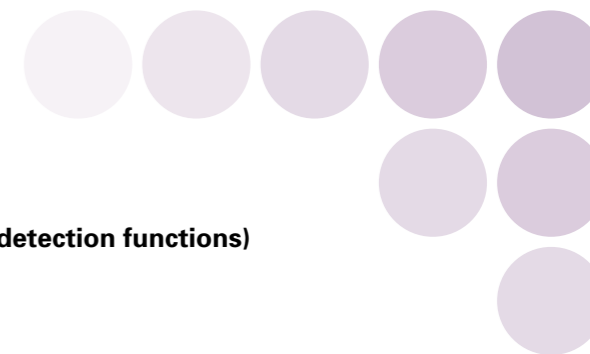DRT2-ID08(-1)/OD08(-1)/MD16(-1)

MIL Connector Terminals with Transistors
DRT2-ID16ML(-1)/OD16ML(-1)/ID16MLX(-1)/OD16MLX(-1)

Environment-resistive Terminals with Transistors (without detection functions)
DRT2-ID04CL(-1)/OD04CL(-1)/ID08CL(-1)/OD08CL(-1)/
MD16CL(-1)/HD16CL(-1)

Remote Maintenance
The lineup now includes a wide variety of Smart Slaves with different numbers of control points that contribute to production site servicing and repair.

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

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Authorized Distributor:

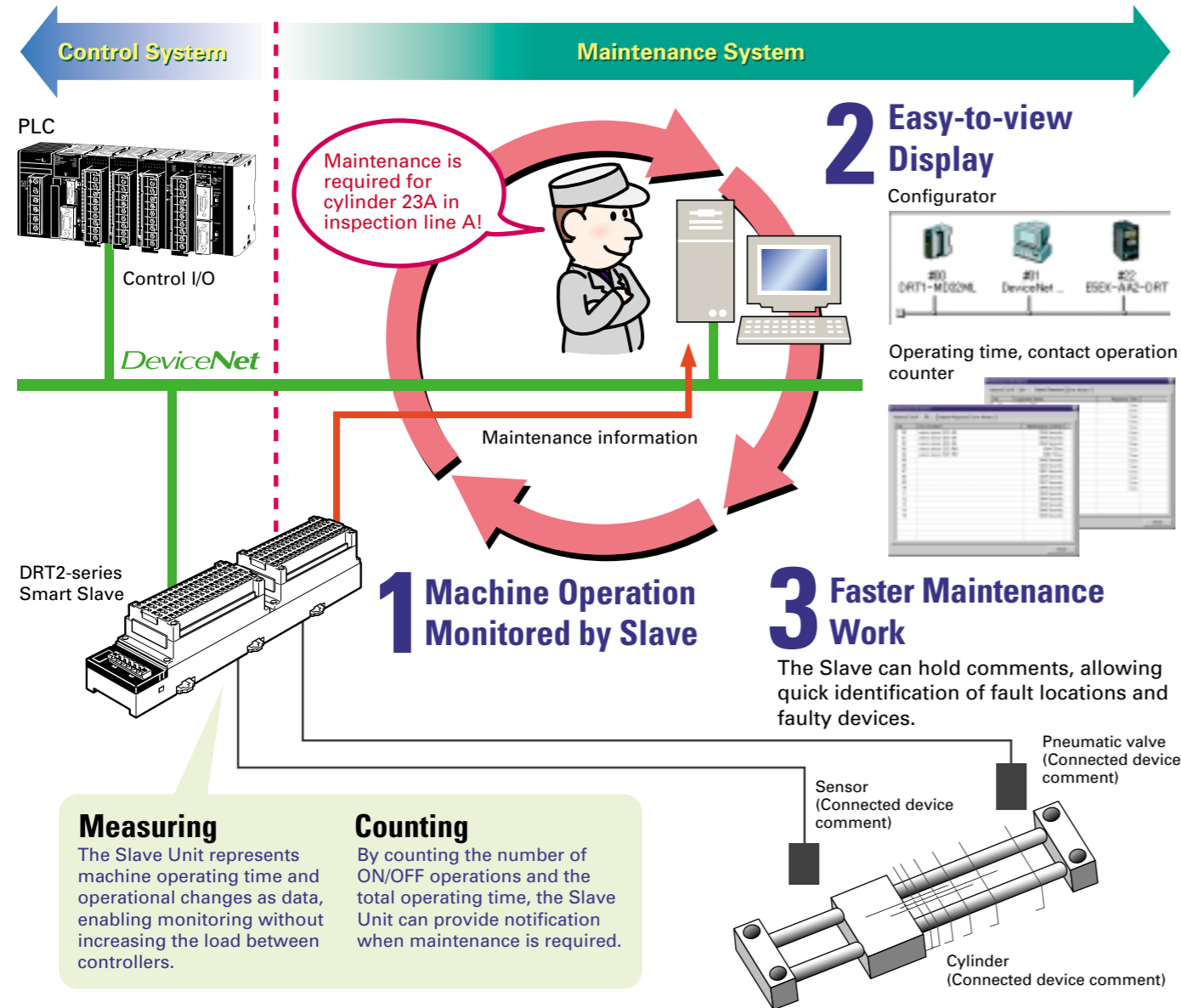Note: Specifications subject to change without notice.

Cat. No. R110-E1-05
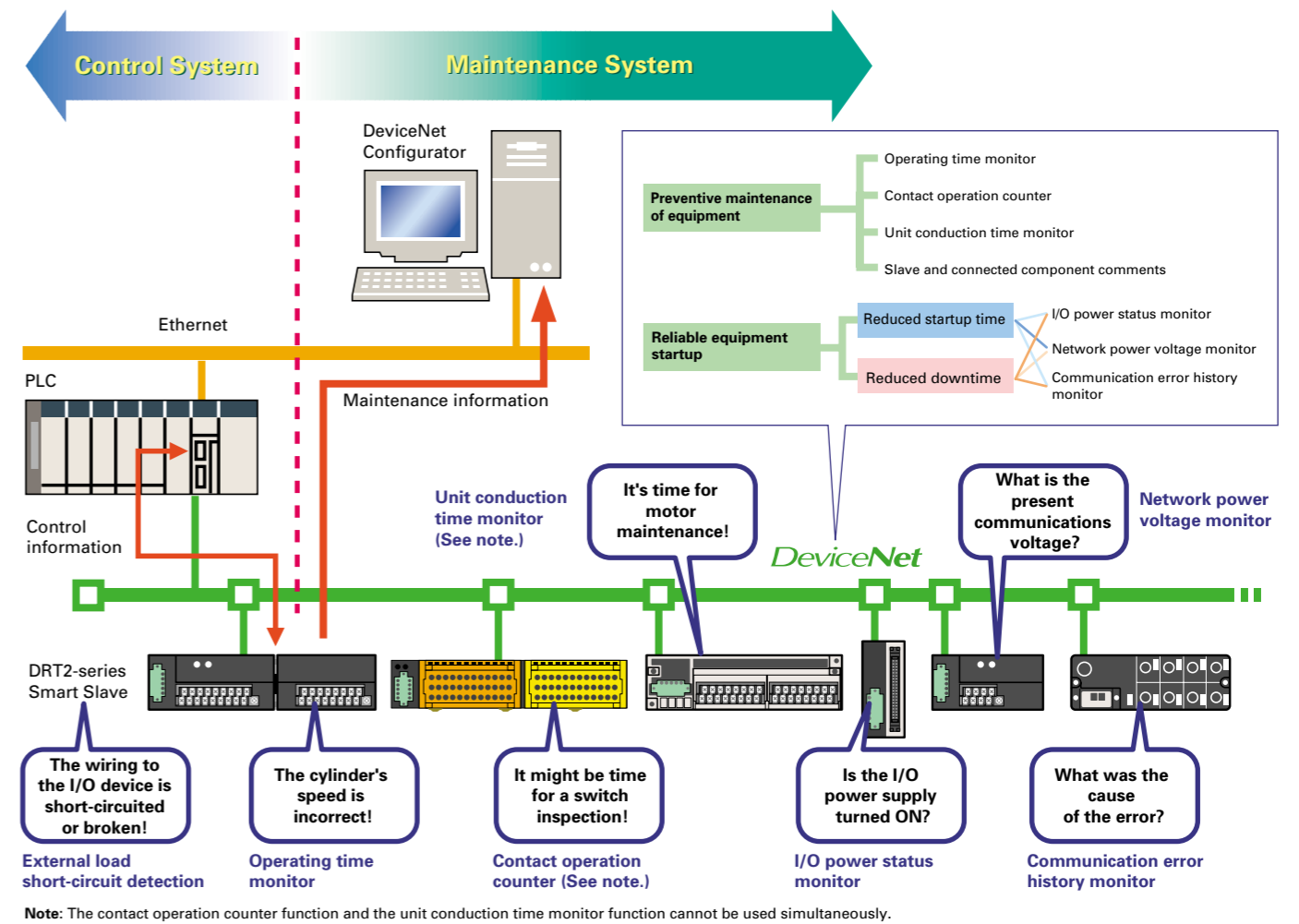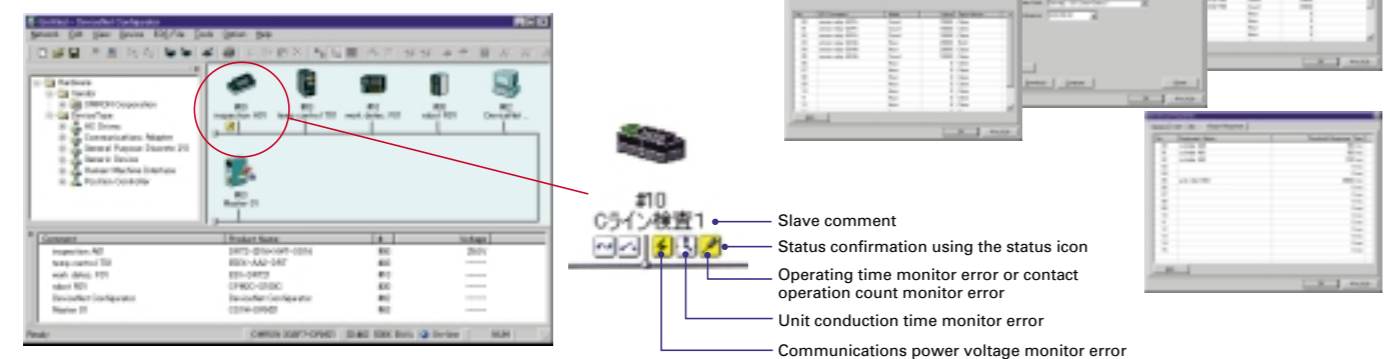Printed in Japan
1006-0.3M

real*i*zing

Use production site information in a variety of applications, such as maintenance and quality control.

OMRON's DRT2-series Smart Slaves do not just input and output ON/OFF signals. They collect a variety of value-added information to help increase the rate of operation without changing the wiring for existing DeviceNet networks. In particular, they allow the separation of control systems and maintenance systems so that maintenance systems can be created independently of control systems.

Control System **Maintenance System**

PLC

Maintenance is required for cylinder 23A in inspection line A!

Control I/O

DeviceNet

2 Easy-to-view Display

Configurator

Operating time, contact operation counter

Maintenance information

DRT2-series Smart Slave

1 Machine Operation Monitored by Slave

3 Faster Maintenance Work

The Slave can hold comments, allowing quick identification of fault locations and faulty devices.

Pneumatic valve (Connected device comment)

Sensor (Connected device comment)

Measuring
The Slave Unit represents machine operating time and operational changes as data, enabling monitoring without increasing the load between controllers.

Counting
By counting the number of ON/OFF operations and the total operating time, the Slave Unit can provide notification when maintenance is required.

Cylinder (Connected device comment)

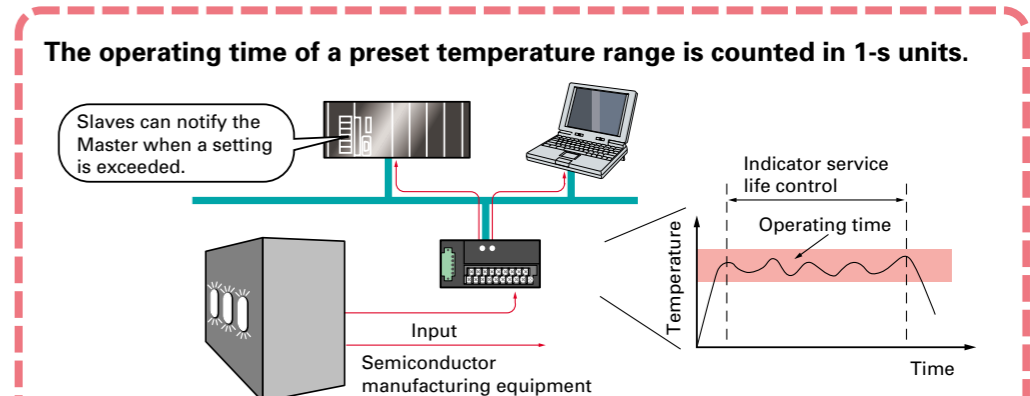## Collect a variety of data from maintenance systems without influencing control systems and productivity.

All data can be converted to electronic format and, by combining with an OMRON PLC (CS/CJ Series), checked directly from Ethernet or the Internet to allow remote maintenance.

Information monitoring for each Slave

Slave comment
Status confirmation using the status icon
Operating time monitor error or contact operation count monitor error
Unit conduction time monitor error
Communications power voltage monitor error

Control System **Maintenance System**

DeviceNet Configurator

Ethernet

PLC

Maintenance information

Control information

Preventive maintenance of equipment
Operating time monitor
Contact operation counter
Unit conduction time monitor
Slave and connected component comments

Reliable equipment startup
Reduced startup time — I/O power status monitor
Network power voltage monitor
Reduced downtime — Communication error history monitor

Unit conduction time monitor (See note.)

It's time for motor maintenance!

What is the present communications voltage?

Network power voltage monitor

DeviceNet

DRT2-series Smart Slave

The wiring to the I/O device is short-circuited or broken!

The cylinder's speed is incorrect!

It might be time for a switch inspection!

Is the I/O power supply turned ON?

What was the cause of the error?

External load short-circuit detection

Operating time monitor

Contact operation counter (See note.)

I/O power status monitor

Communication error history monitor

Note: The contact operation counter function and the unit conduction time monitor function cannot be used simultaneously.

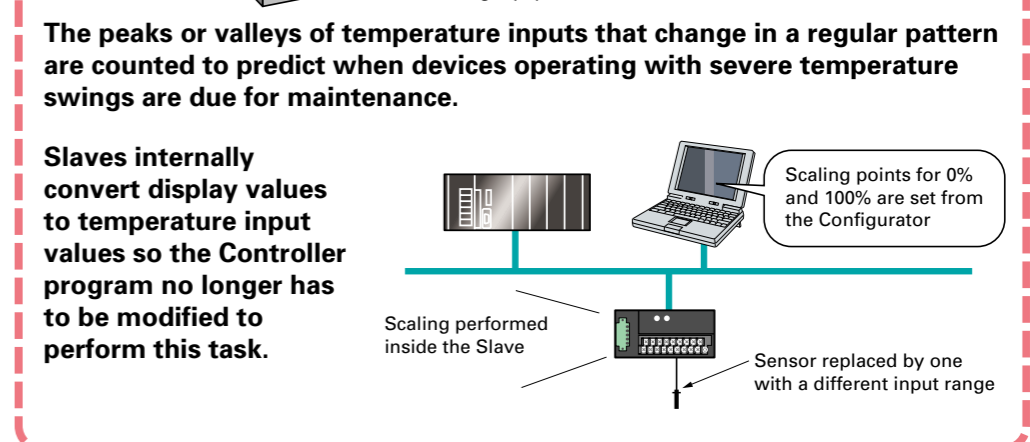## Using OMRON Temperature Input Terminals for Maintenance

Failure Prediction and Maintenance

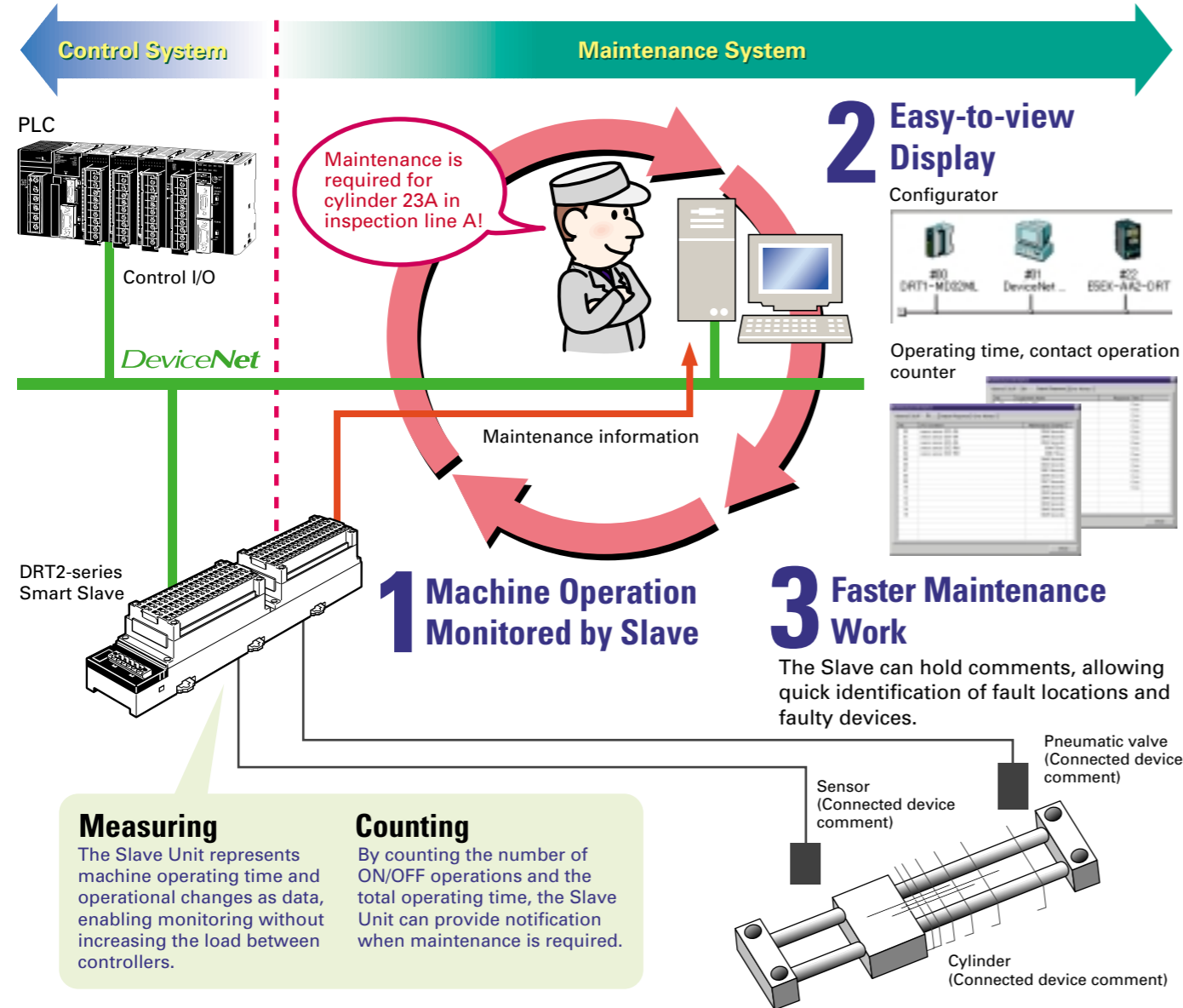If prolonging the time it takes to reach a certain temperature may degrade equipment:

The operating time of a preset temperature range is counted in 1-s units.

Slaves can notify the Master when a setting is exceeded.

Input
Semiconductor manufacturing equipment

Indicator service life control
Operating time
Temperature
Time

The peaks or valleys of temperature inputs that change in a regular pattern are counted to predict when devices operating with severe temperature swings are due for maintenance.

Short Startup

If it takes too long to modify the ladder program on the Master when a Temperature Sensor is replaced:

Slaves internally convert display values to temperature input values so the Controller program no longer has to be modified to perform this task.

Scaling points for 0% and 100% are set from the Configurator

Scaling performed inside the Slave

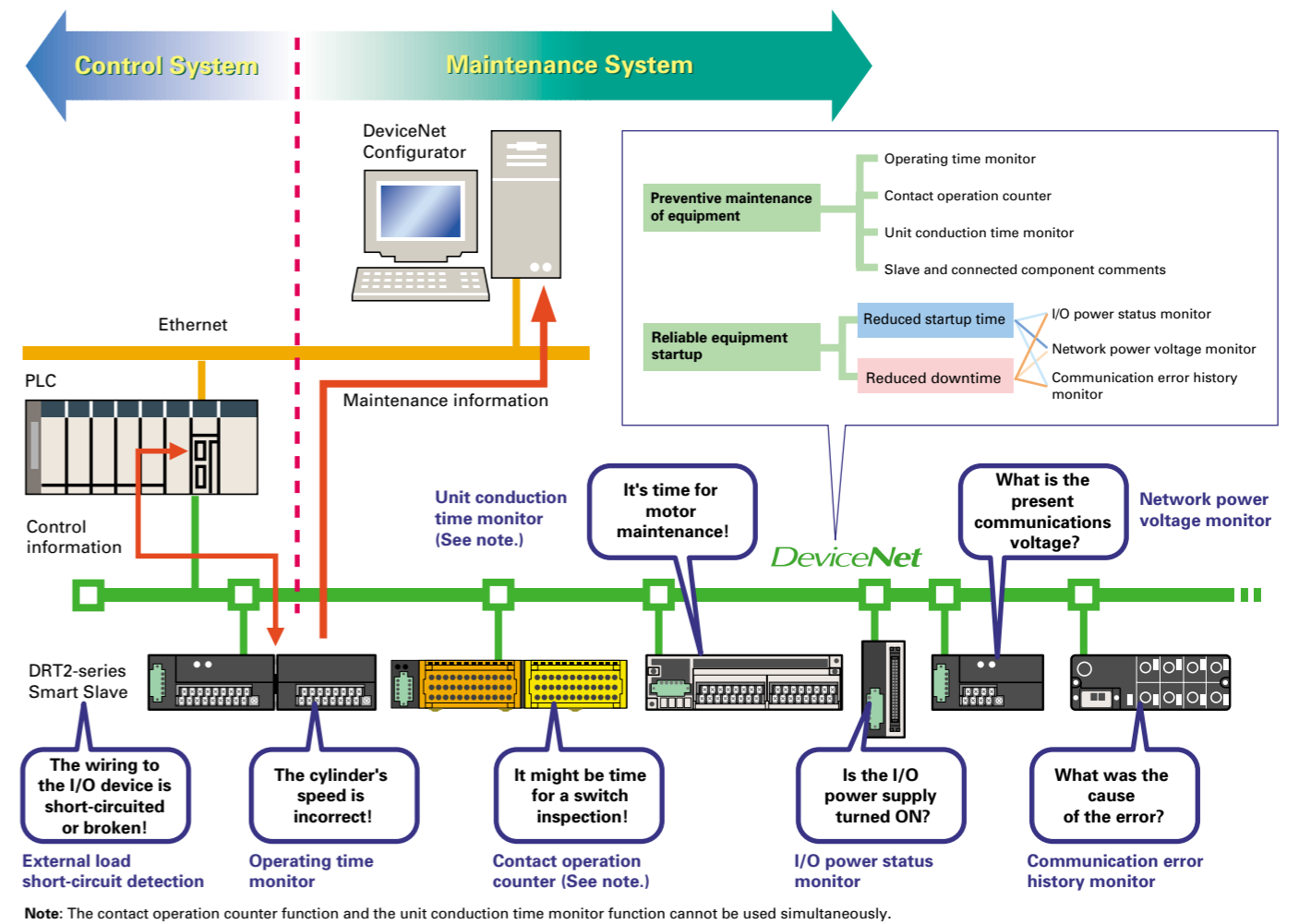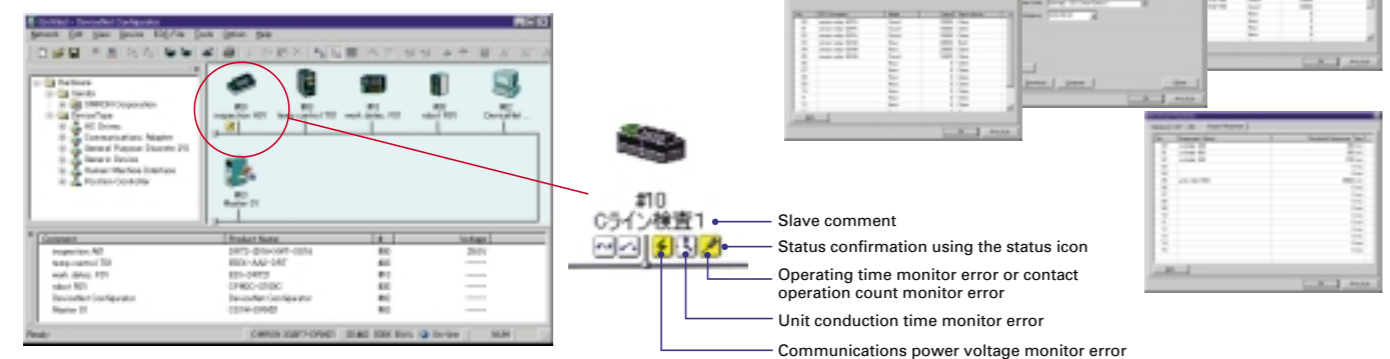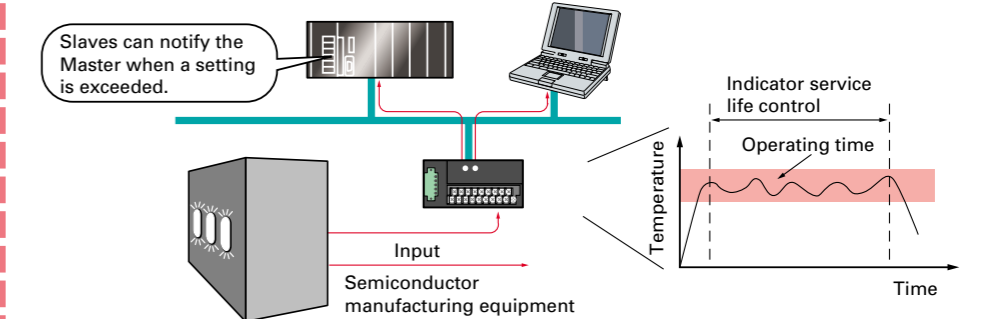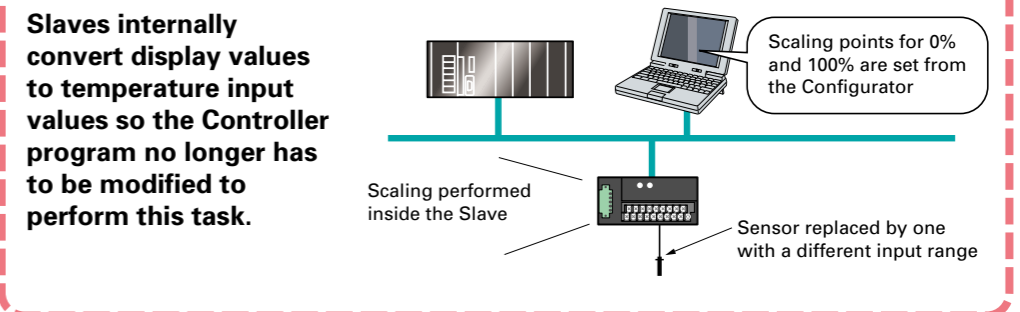Sensor replaced by one with a different input range

Use production site information in a variety of applications, such as maintenance and quality control.

OMRON's DRT2-series Smart Slaves do not just input and output ON/OFF signals. They collect a variety of value-added information to help increase the rate of operation without changing the wiring for existing DeviceNet networks. In particular, they allow the separation of control systems and maintenance systems so that maintenance systems can be created independently of control systems.

Control System — **Maintenance System**

PLC

Maintenance is required for cylinder 23A in inspection line A!

Control I/O

DeviceNet

Maintenance information

DRT2-series Smart Slave

2 Easy-to-view Display

Configurator

#00 DRT1-MD02ML | #01 DeviceNet ... | #22 E5EX-A A2-DRT

Operating time, contact operation counter

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The Slave can hold comments, allowing quick identification of fault locations and faulty devices.

Pneumatic valve (Connected device comment)

Sensor (Connected device comment)

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The Slave Unit represents machine operating time and operational changes as data, enabling monitoring without increasing the load between controllers.

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All data can be converted to electronic format and, by combining with an OMRON PLC (CS/CJ Series), checked directly from Ethernet or the Internet to allow remote maintenance.

Information monitoring for each Slave

#10
Cライン検査1

Slave comment
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DeviceNet Configurator

Ethernet

PLC

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Maintenance information

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- Operating time monitor
- Contact operation counter
- Unit conduction time monitor
- Slave and connected component comments

Reliable equipment startup
- Reduced startup time
- Reduced downtime
  - I/O power status monitor
  - Network power voltage monitor
  - Communication error history monitor

DRT2-series Smart Slave

Unit conduction time monitor (See note.)

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Network power voltage monitor

Is the I/O power supply turned ON?

DeviceNet

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Is the I/O power supply turned ON?

What was the cause of the error?

External load short-circuit detection | **Operating time monitor** | **Contact operation counter (See note.)** | **I/O power status monitor** | **Communication error history monitor**

Note: The contact operation counter function and the unit conduction time monitor function cannot be used simultaneously.

Using OMRON Temperature Input Terminals for Maintenance

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Scaling points for 0% and 100% are set from the Configurator

Scaling performed inside the Slave

Sensor replaced by one with a different input range

Wide variety of control and maintenance functions using DeviceNet.

Monitor network devices using a DeviceNet Configurator.
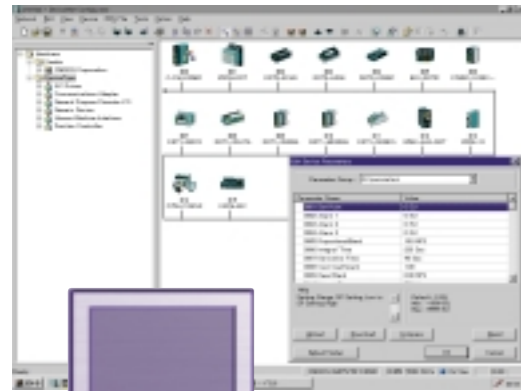
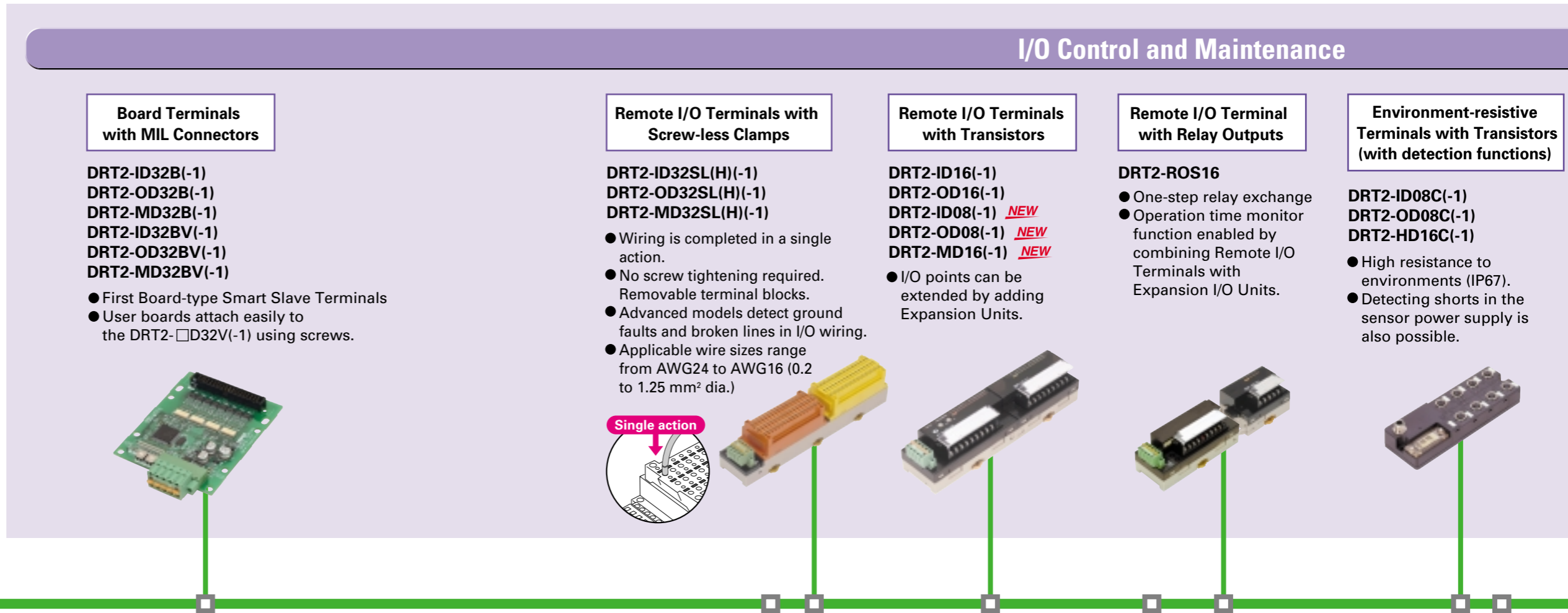**DeviceNet Configurator**
- Settings and monitoring for startup
- Settings and monitoring for maintenance

CS/CJ-series DeviceNet Unit

PLC

I/O Control and Maintenance

Board Terminals with MIL Connectors

DRT2-ID32B(-1)
DRT2-OD32B(-1)
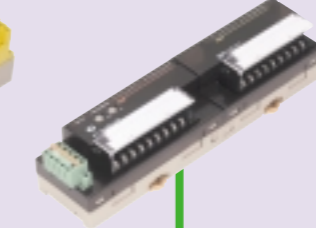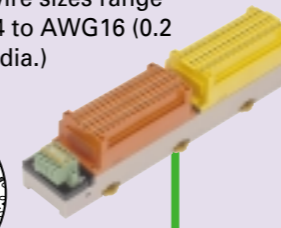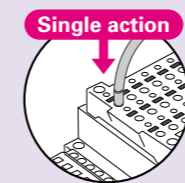DRT2-MD32B(-1)
DRT2-ID32BV(-1)
DRT2-OD32BV(-1)
DRT2-MD32BV(-1)

- First Board-type Smart Slave Terminals
- User boards attach easily to the DRT2-☐D32V(-1) using screws.

Remote I/O Terminals with Screw-less Clamps

DRT2-ID32SL(H)(-1)
DRT2-OD32SL(H)(-1)
DRT2-MD32SL(H)(-1)

- Wiring is completed in a single action.
- No screw tightening required. Removable terminal blocks.
- Advanced models detect ground faults and broken lines in I/O wiring.
- Applicable wire sizes range from AWG24 to AWG16 (0.2 to 1.25 mm² dia.)

Single action

Remote I/O Terminals with Transistors

DRT2-ID16(-1)
DRT2-OD16(-1)
DRT2-ID08(-1) *NEW*
DRT2-OD08(-1) *NEW*
DRT2-MD16(-1) *NEW*

- I/O points can be extended by adding Expansion Units.

Remote I/O Terminal with Relay Outputs

DRT2-ROS16

- One-step relay exchange
- Operation time monitor function enabled by combining Remote I/O Terminals with Expansion I/O Units.
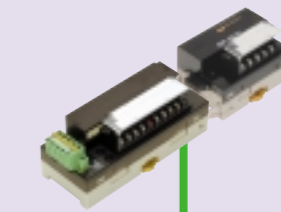
Environment-resistive Terminals with Transistors (with detection functions)

DRT2-ID08C(-1)
DRT2-OD08C(-1)
DRT2-HD16C(-1)

- High resistance to environments (IP67).
- Detecting shorts in the sensor power supply is also possible.

New Lineup

Models with 8 Input, 8 Output, or 16 I/O Points Added to the Lineup
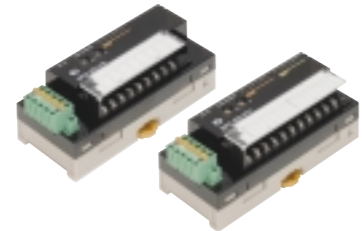
Remote I/O Terminals with Transistors
DRT2-ID08(-1)/OD08(-1)/MD16(-1)

- Collect a variety of data from maintenance systems without influencing control systems and productivity.
- Communications power supply voltage monitor, deterioration due to aging, operating time data, and other information can be easily collected and managed via the network.
- Locations of problems can be easily identified.

Remote I/O Terminals with IP67 High Environmental Resistance

Environment-resistive Terminals with Transistors
DRT2-ID04CL(-1)/OD04CL(-1)/ID08CL(-1)/OD08CL(-1)/MD16CL(-1)/HD16CL(-1)/WD16CL(-1)

- Smart Slave functions provide robust support for effective maintenance and monitoring device operation status.
- The terminals conform to IP67 and use materials selected for resistance to oil and spattering.
- Models with two-output connector are also available to improve ease of connection with hydraulic valve devices.

Terminals with 16 Inputs or Outputs

MIL Connector Terminals with Transistors
DRT2-ID16ML(-1)/OD16ML(-1)/ID16MLX(-1)/OD16MLX(-1)

- Connection with an array of I/O interfaces is achieved by combining adaptor boards for D-Sub or other interfaces.

e-CON Connector Terminals

DRT2-ID16S(-1)
DRT2-MD16S(-1)

- Includes industry-standard e-CON connector that can be used to connect prewired sensors without using special tools.
  (The OMRON XN2 Connector can be used.)

Sensor Input and Maintenance

Analog I/O Terminals

DRT2-AD04/DRT2-AD04H
DRT2-DA02

- The DRT2-AD04H offers high resolution at 1/30,000 (full scale) and insulation between input channels.
- The DRT2-AD04 and DRT2-DA02 support a wide variety of data sampling function, including scaling, peak/bottom hold, top/valley hold, comparator, integral, and differential operation functions.

Temperature Input Terminals

DRT2-TS04T
DRT2-TS04P

- Offers basically the same Analog Input Terminals, scaling and comparators Also provides functions available only from Tem Input Terminals, such as preset temperature rang temperature difference between input channels.

Analog Control and Main

OMRON

Functions Supported by Smart Slaves

Column groups / Types / Models (header):

Slave group	Type	Subtype	Model
General-purpose Slaves	Remote I/O Terminals	Models with Transistors	DRT2-□D16(-1), DRT2-□D08(-1), DRT2-MD16(-1)
General-purpose Slaves	Remote I/O Terminals	Model with Relay Outputs	DRT2-ROS16
General-purpose Slaves	Remote I/O Terminals	Models with 3-tier Terminal Blocks	DRT2-□D16TA(-1)
General-purpose Slaves	MIL Connector Terminals	Models with Transistors	DRT2-□D32ML(-1), DRT2-□D16ML(-1), DRT2-□D16MLX(-1)
General-purpose Slaves	Board Terminals	Models with MIL Connectors	DRT2-□D32B(-1), DRT2-□D32BV(-1)
General-purpose Slaves	Screw-less Clamp Terminals	Models with Transistors With Detection Functions	DRT2-□D32SLH(-1)
General-purpose Slaves	Screw-less Clamp Terminals	Models with Transistors Without Detection Functions	DRT2-□D32SL(-1)
Environment-resistive Slaves	Environment-resistive Terminals	Models with Transistors With Detection Functions	DRT2-□D08C(-1), DRT2-□D16C(-1)
Environment-resistive Slaves	Environment-resistive Terminals	Models with Transistors Without Detection Functions	DRT2-□D04CL(-1), DRT2-□D08CL(-1), DRT2-□D16CL(-1)
General-purpose Slaves	e-con Connector Terminals	—	DRT2-□D16S(-1)
Analog Slaves	Analog I/O Terminals	—	DRT2-AD04, DRT2-AD04H, DRT2-DA02
Analog Slaves	Temperature Input Terminals	—	DRT2-TS04□

I/O classification (abbreviated): I = Input, O = Output, IO = Input/output. D16/D08/D16TA/D32ML/D32B/D32SLH/D32SL/D08C/D04CL have I, O, IO columns as applicable; MD16 = IO; ROS16 = O; D16S = I, IO; AD04/AD04H = I; DA02 = O; TS04 = I.

Functions table (○: Yes, ---: No):

Function	DRT2-□D16(-1)	DRT2-□D08(-1)	DRT2-MD16(-1)	DRT2-ROS16	DRT2-□D16TA(-1)	DRT2-□D32ML/D16ML/D16MLX	DRT2-□D32B/D32BV	DRT2-□D32SLH(-1)	DRT2-□D32SL(-1)	DRT2-□D08C/D16C	DRT2-□D04CL/D08CL/D16CL	DRT2-□D16S(-1)	DRT2-AD04	DRT2-AD04H	DRT2-DA02	DRT2-TS04□
Operating time monitor	○ (Inputs and outputs only)	○ (Inputs and outputs only)	○ (Inputs and outputs only)	---	○	○	○	○	○	---	---	○	---	---	---	---
Contact operation count monitor	○	○	○	---	○	○	○	○	○	○	○	○	---	---	---	---
Unit conduction time monitor	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Total RUN (ON) time monitor	○	○	○	---	○	○	○	○	○	○	○	○	---	---	---	---
Unit comment	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Connected device comment	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Network power voltage monitor	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
I/O power status monitor	○	○	---	---	○	○	○	○	○	○	○	○	---	---	---	---
Communications error history monitor	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Input filter	○	○	○	---	○	○	○	○	○	○	○	○	---	---	---	---
Prevention of malfunctions due to sensor inrush current	○	○	○	---	○	○	○	○	○	○	○	○	---	---	---	---
Sensor power short-circuit detection	---	---	---	---	---	---	---	○	---	○	---	○	○	○	---	---
External load short-circuit detection	---	---	---	---	---	---	---	○ (See note.)	---	○	---	○	---	---	---	---
Sensor disconnection detection	---	---	---	---	---	---	---	○	---	○	---	---	---	---	---	---
External load disconnection detection	---	---	---	---	---	---	---	○	---	---	---	---	---	---	---	---
Removable terminal blocks	○	○	○	---	---	---	---	○	○	---	---	---	---	---	○	○
Automatic baud rate detection	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Unit power supply wiring not required	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Power supply wiring not required for input devices	---	---	---	---	---	---	---	---	---	○	---	○	---	---	---	---
Expansion I/O Units mountable	○	---	○	---	---	---	---	---	---	---	---	---	---	---	---	---
Scaling	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○	○
User calibration	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○	○
Last maintenance date	○	○	○	---	○	○	○	○	○	○	○	○	○	○	○	○
Integral function	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○	○
Moving average processing	---	---	---	---	---	---	---	---	---	---	---	---	○	○	---	○
Number of AD conversion points setting (conversion cycle)	---	---	---	---	---	---	---	---	---	---	---	---	○	○	---	---
Peak/bottom hold	---	---	---	---	---	---	---	---	---	---	---	---	○	○	---	○
Top/valley hold	---	---	---	---	---	---	---	---	---	---	---	---	○	○	---	○
Change rate calculations	---	---	---	---	---	---	---	---	---	---	---	---	○	○	---	○
Comparator function	---	---	---	---	---	---	---	---	---	---	---	---	○	○	---	○
Setting output value for errors	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○	---
Top/valley count	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○
Operating time in a preset temperature range	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○
Temperature difference detection between input channels	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	○

○: Yes, ---: No

Note: The contact operation count monitor and the total RUN (ON) time monitor cannot be used at the same time for one contact.
External load detection is supported only by the DRT2-MD32SLH-1 and DRT2-OD32SLH-1.

OMRON

Specifications

Communications power supply voltage	11 to 25 VDC (supplied from communications connector)
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC −15% to +10%)
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power lines)
Vibration resistance	10 to 60 Hz, 0.7-mm double amplitude, 60 to 150 Hz, 50 ms² for 80 min each in the X, Y, and Z directions
Shock resistance	150m/s², 6 directions, 3 times each
Dielectric strength	500 VAC (between isolated circuits)
Insulation resistance	20 MΩ min. (between isolated circuits)
Ambient operating temperature	−10 to 55°C
Ambient operating humidity	25 to 85%
Ambient operating atmosphere	No corrosive gases
Ambient storage temperature	−20 to 65°C
Degree of protection	IP67
Mounting method	DRT2-□D08□-1□/□D16(-1): 35-mm DIN Track DRT2-□D32ML(-1)/□D16ML(-1): 35-mm DIN Track DRT2-□D04CL(-1)/□D08CL(-1)/□D16CL(-1): M5 screws mounting (front or back)
Screw tightening torque	DRT2-□D08(-1)/□D16(-1): M3 (power supply and I/O terminals): 0.3 to 0.5 N·m DRT2-□D32ML(-1)/□D16ML(-1): M2 (communications connector screws): 0.26 to 0.3 N·m, M3 (screw terminals): 0.3 to 0.5N·m DRT2-□D04CL(-1)/□D08CL(-1)/□D16CL(-1): Round connectors (communications connector, power supply, and I/O): 0.39 to 0.49 N·m M5 (Unit mounting from the front): 1.47 to 1.96 N·m

Input Specifications

■Remote I/O Terminals with Transistors

●Terminals with 8 Inputs

Item Model	DRT2-ID08(-1)
Input current	6.0 mA max. per point at 24 VDC
ON delay time	1.5 ms max.
OFF delay time	1.5 ms max.
ON voltage NPN	15 VDC min. (between each input terminal and V)
ON voltage PNP	15 VDC min. (between each input terminal and G)
OFF voltage NPN	5 VDC max. (between each input terminal and V)
OFF voltage PNP	5 VDC min. (between each input terminal and G)
OFF current	1.0 mA max.
Isolation method	Photocoupler isolation
Input indicator	Yellow LED indicator

●Terminals with 8 Inputs/8 Outputs

Item Model	DRT2-MD16	DRT2-MD16-1
Internal I/O common	NPN	PNP
Number of I/O points	8 inputs	
ON voltage	15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage	5 VDC max. (between each input terminal and V)	5 VDC min. (between each input terminal and G)
OFF current	1 mA max.	
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC	
ON delay time	1.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	8 points per common	

■MIL Connector Terminals with Transistors

●Terminals with 16 Inputs, with Connectors

Model Item	DRT2-ID16ML DRT2-ID16MLX	DRT2-ID16ML-1 DRT2-ID16MLX-1
Internal I/O common	NPN	PNP
Number of I/O points	16 inputs	
ON voltage	17 VDC min. (between each input terminal and V)	17 VDC min. (between each input terminal and G)
OFF voltage	5 VDC max. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF current	1 mA max.	
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC	
ON delay time	1.5 ms max.	
OFF delay time	1.5 ms max.	
Max. number of simultaneous ON input points	16	
Number of points per common	16 points per common	

■Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors

●Terminals with 4 Inputs

| Item Model	DRT2-ID04CL	DRT2-ID04CL-1
Internal I/O common	NPN	PNP
Number of I/O points	4 inputs	
ON voltage	15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage	5 VDC max. (between each input terminal and V)	5 VDC min. (between each input terminal and G)
OFF current	1 mA max.	
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	1.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	4 points per common	

●Terminals with 8 Inputs

Item Model	DRT2-ID08CL	DRT2-ID08CL-1
Internal I/O common	NPN	PNP
Number of I/O points	8 inputs	
ON voltage	15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage	5 VDC max. (between each input terminal and V)	5 VDC min. (between each input terminal and G)
OFF current	1 mA max.	
Input current	6.0 mA6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	1.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	8 points per common	

●Terminals with 16 Inputs

Item Model	DRT2-HD16CL	DRT2-HD16CL-1
Internal I/O common	NPN	PNP
Number of I/O points	16 inputs	
ON voltage	15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage	5 VDC max. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF currrent	1 mA max.	
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	1.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	16 points per common	

●Terminals with 8 Inputs/8 Outputs

Item Model	DRT2-MD16CL	DRT2-MD16CL-1
Internal I/O common	NPN	PNP
Number of I/O points	8 inputs	
ON voltage	15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage	5 VDC max. (between each input terminal and V)	5 VDC min. (between each input terminal and G)
OFF currrent	1 mA max.	
Input current	6.0 mA max. per point at 24 VDC 3.0 max. per point at 17 VDC	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	1.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	8 points per common	

Output Specifications

■Remote I/O Terminals with Transistors

●Terminals with 8 Outputs

Item Model	DRT2-OD08(-1)
Rated output current	0.5 A per point, 4.0 A per common
ON delay time	0.5 ms max.
OFF delay time	1.5 ms max.
Residual voltage	1.2 V max.
Leakage current	0.1 mA max.
Isolation method	Photocoupler isolation
Output indicator	Yellow LED indicator

●Terminals with 8 Inputs/8 Outputs

Item Model	DRT2-MD16	DRT2-MD16-1
Internal I/O common	NPN	PNP
Number of I/O points	8 outputs	
Rated output current	0.5 A per point, 4 A per common	
Residual voltage	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)
Leakage current	0.1 mA max.	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	8 points per common	

■MIL Connector Terminals with Transistors

●Terminals with 16 Outputs, with Connectors

Item Model	DRT2-OD16ML DRT2-OD16MLX	DRT2-OD16ML-1 DRT2-OD16MLX-1
Internal I/O common	NPN	PNP
Number of I/O points	16 outputs	
Rated output current	0.3 A per point, 2 A per common (See note.)	
Residual voltage	1.2 V max. (0.3 A DC between each output terminal and G)	1.2 V max. (0.3 A DC between each output terminal and V)
Leakage current	0.1 mA max.	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	16 points per common	

Note: Make sure the total external load current does not exceed 2 A.
Make sure that the V and G terminals do not exceed 1 A per terminal.

■Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors

●Terminals with 4 Outputs

Item Model	DRT2-OD04CL	DRT2-OD04CL-1
Internal I/O common	NPN	PNP
Number of I/O points	4 outputs	
Rated output current	0.5 A per point, 4 A per common	
Residual voltage	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)
Leakage current	0.1 mA max.	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	4 points per common	

●Terminals with 8 Outputs

Item Model	DRT2-OD08CL	DRT2-OD08CL-1
Internal I/O common	NPN	PNP
Number of I/O points	8 outputs	
Rated output current	0.5 A per point, 4 A per common	
Residual voltage	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)
Leakage current	0.1 mA max.	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	8 points per common	

●Terminals with 16 Outputs

Item Model	DRT2-WD16CL	DRT2-WD16CL-1
Internal I/O common	NPN	PNP
Number of I/O points	16 outputs	
Rated output current	0.5 A per point, 4 A per common	
Residual voltage	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)
Leakage current	0.1 mA max.	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	16 points per common	

●Terminals with 8 Inputs/8 Outputs

Item Model	DRT2-MD16CL	DRT2-MD16CL-1
Internal I/O common	NPN	PNP
Number of I/O points	8 outputs	
Rated output current	0.5 A per point, 4 A per common	
Residual voltage	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)
Leakage current	0.1 mA max.	
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC, −15 to +10%)	
ON delay time	0.5 ms max.	
OFF delay time	1.5 ms max.	
Number of points per common	8 points per common	

Internal Circuit Configuration

■Remote I/O Terminals with Transistors
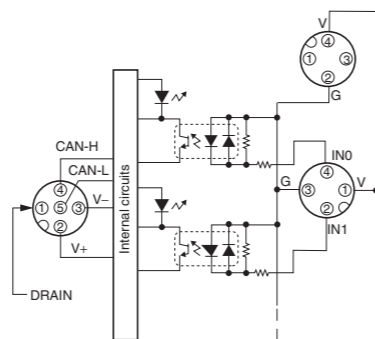
DRT2-ID08 (NPN)
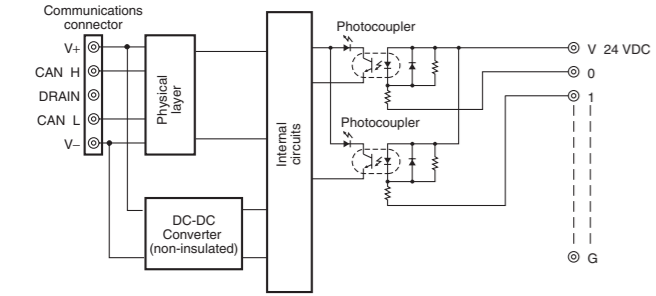
DRT2-ID08-1 (PNP)
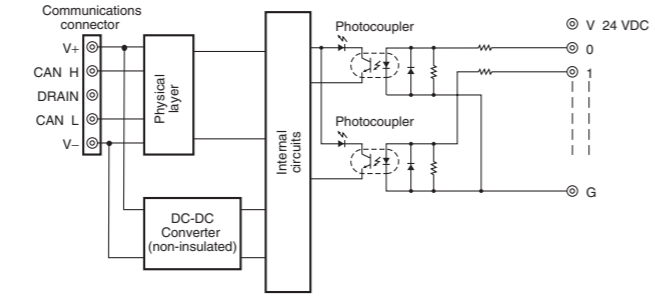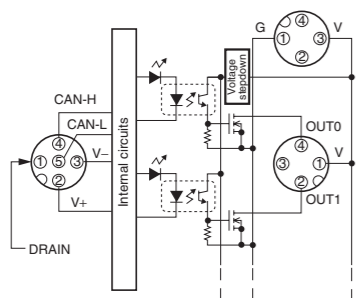

DRT2-OD08 (NPN)
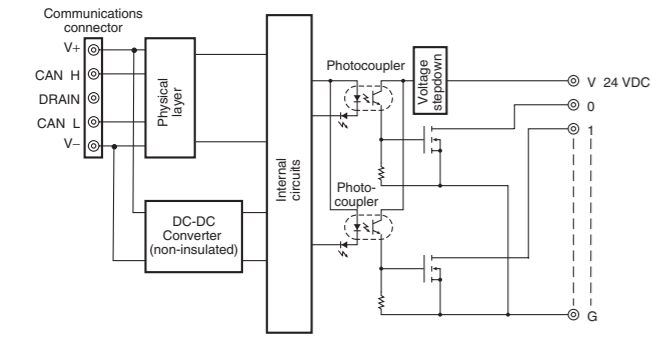
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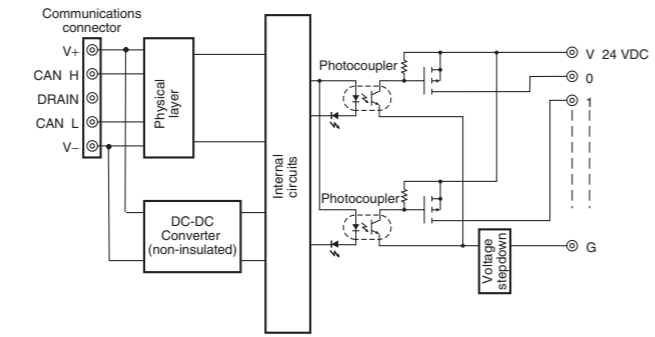
DRT2-MD16 (NPN)
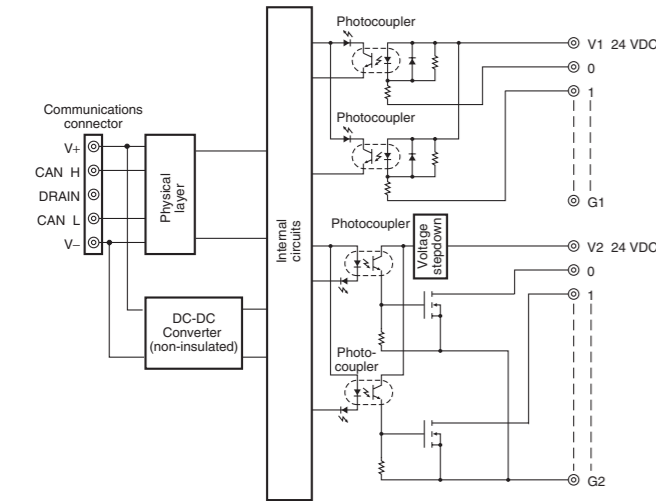
DRT2-MD16-1 (PNP)

OMRON
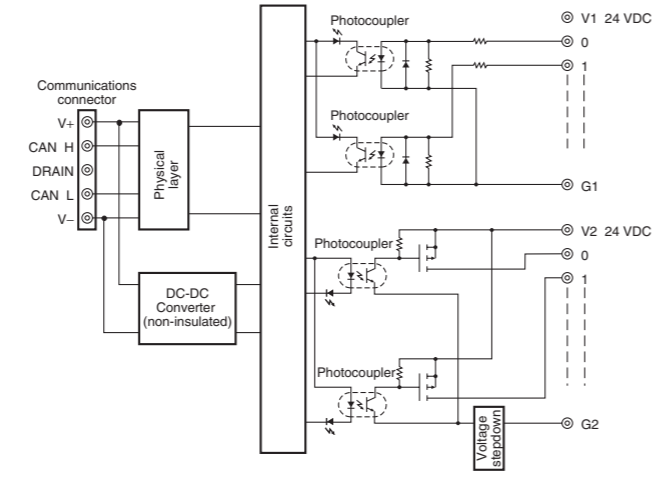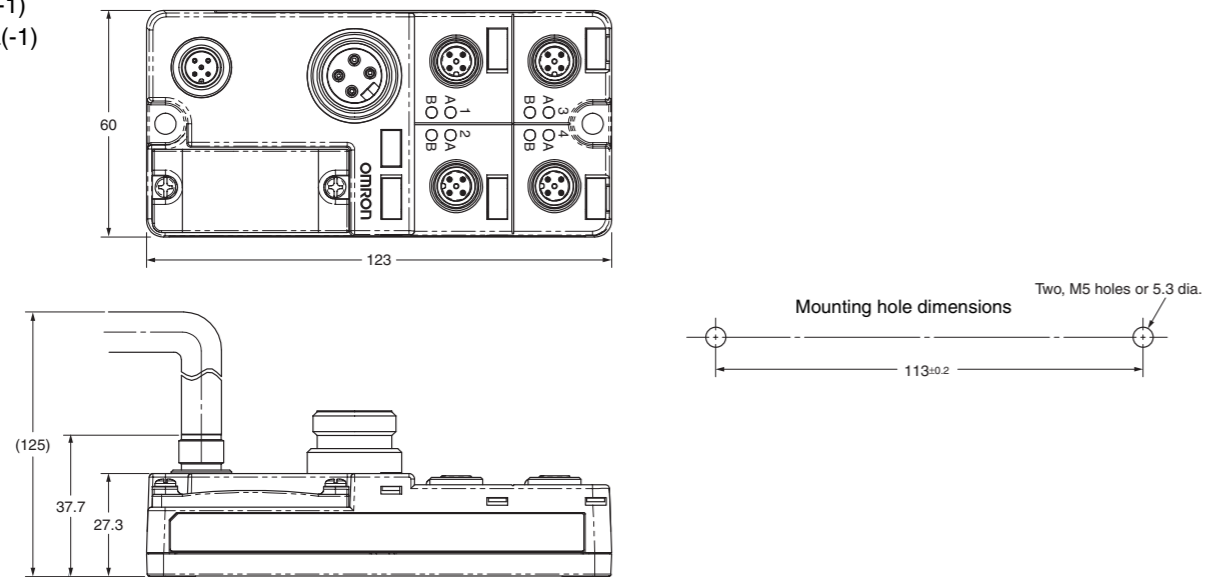
■MIL Connector Terminals with Transistors
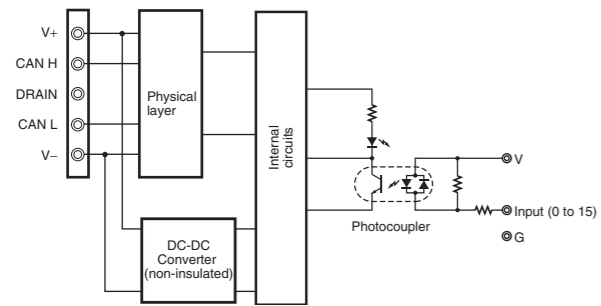
DRT2-ID16ML(X)

DRT2-ID16ML(X)-1
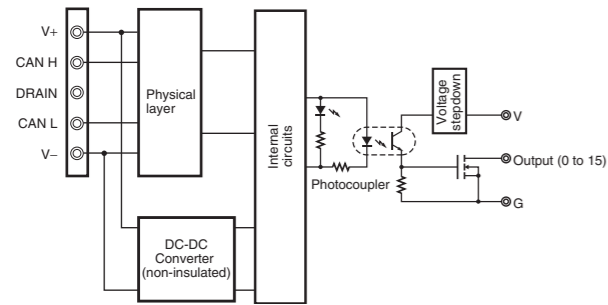
DRT2-OD16ML(X)

DRT2-OD16ML(X)-1
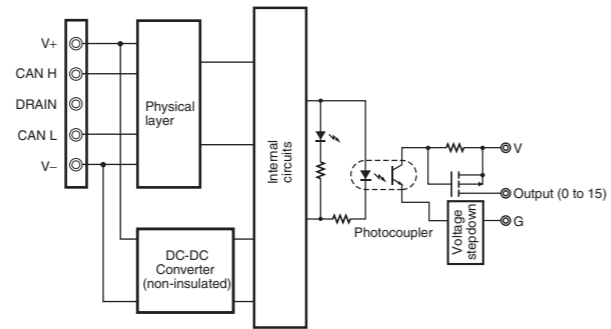
■Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors
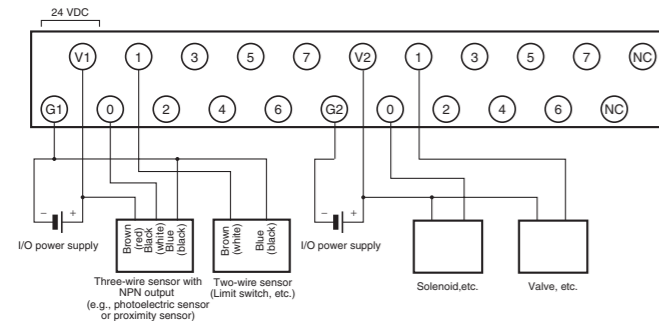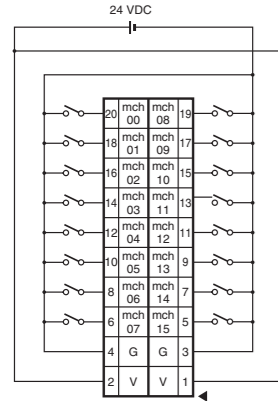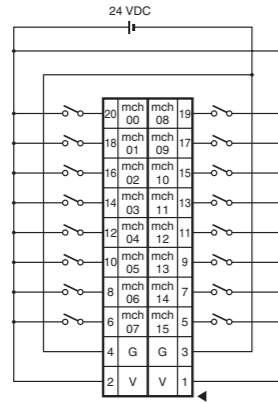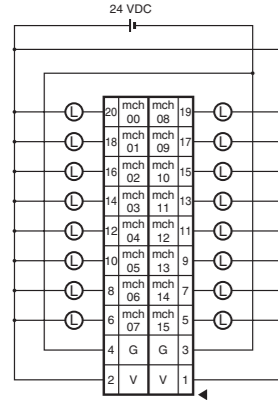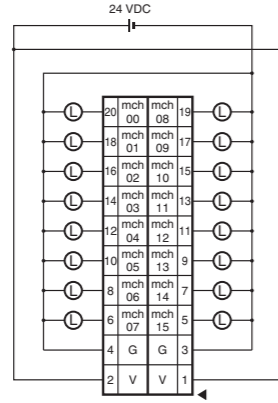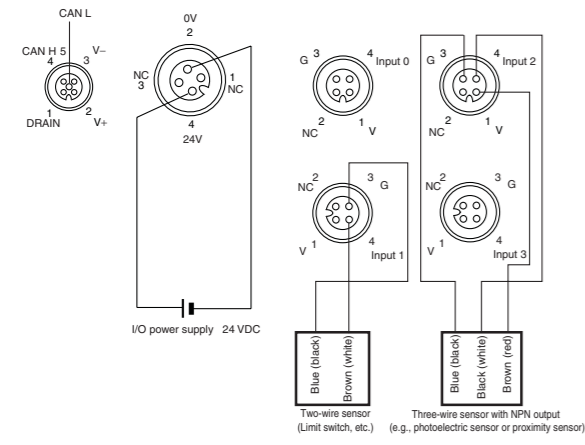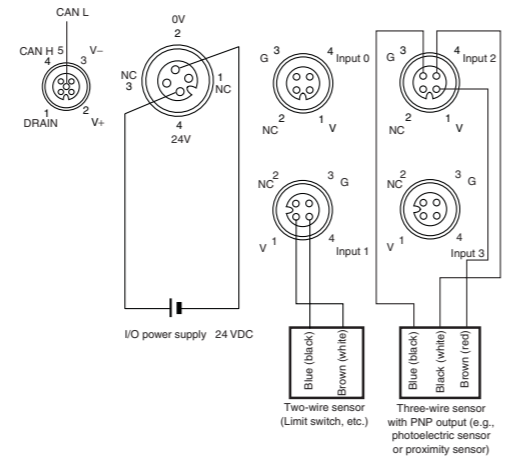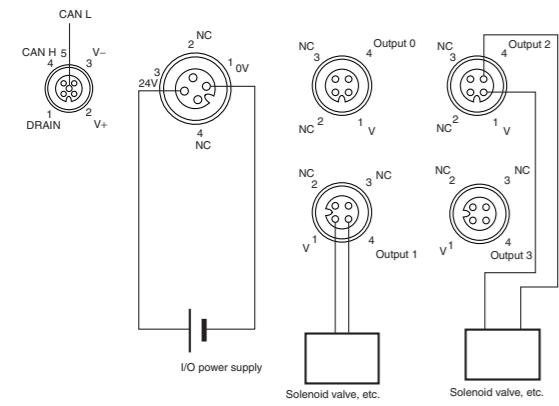
DRT2-ID04CL (NPN)   DRT2-ID04CL-1 (PNP)
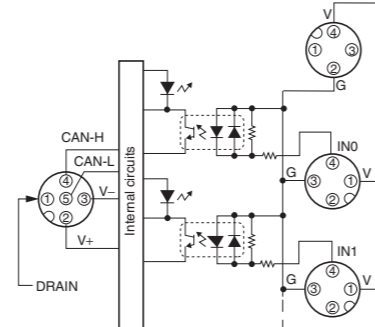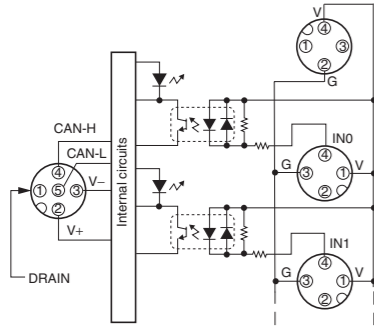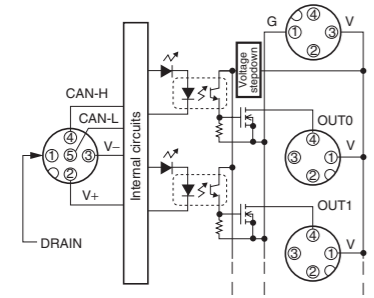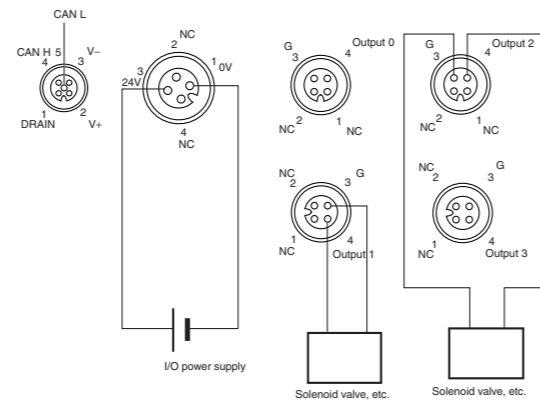

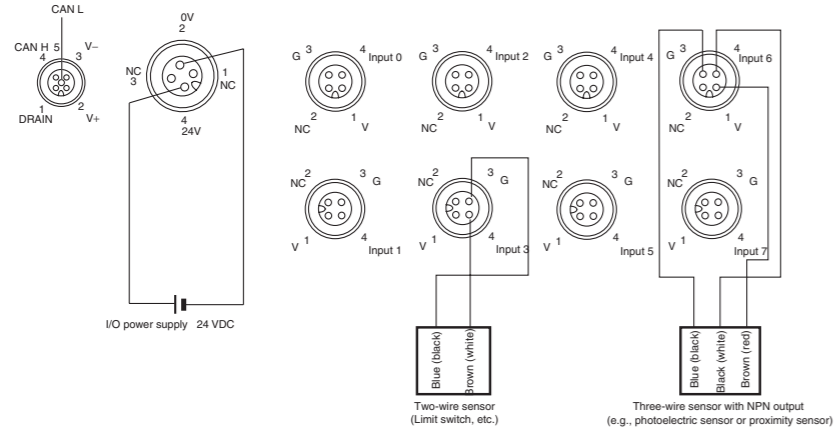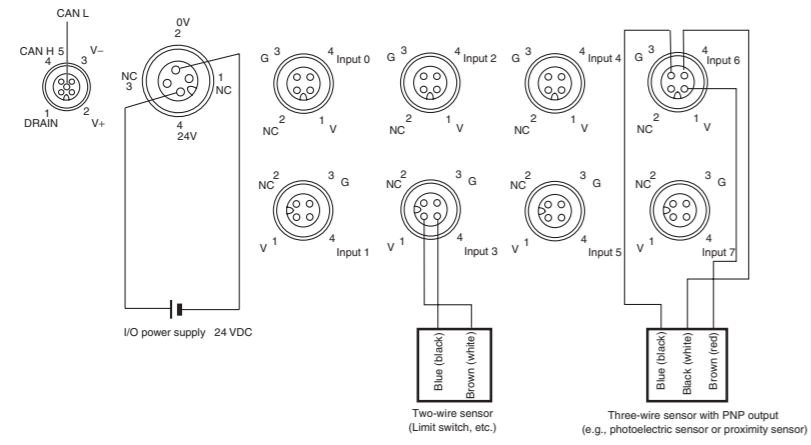DRT2-OD04CL (NPN)   DRT2-OD04CL-1 (PNP)
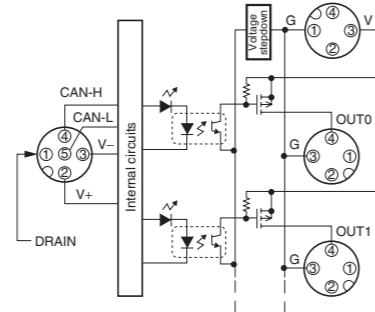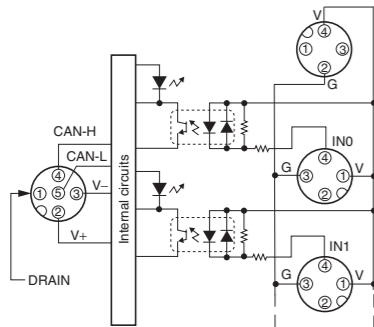
DRT2-ID08CL (NPN)   DRT2-ID08CL-1 (PNP)
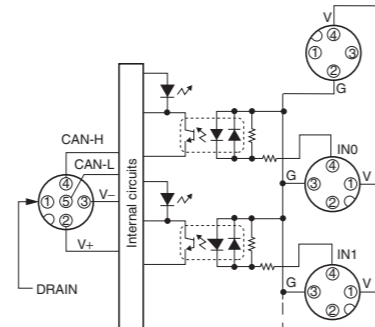
DRT2-OD08CL (NPN)   DRT2-OD08CL-1 (PNP)
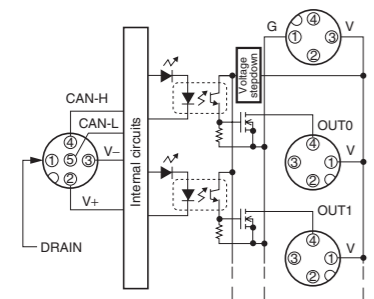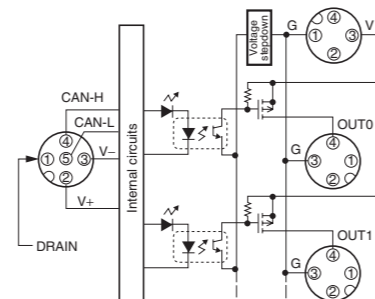
DRT2-HD16CL (NPN)
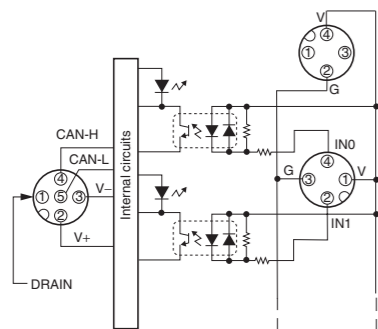
DRT2-HD16CL-1 (PNP)

DRT2-WD16CL (NPN)

DRT2-WD16CL-1 (PNP)
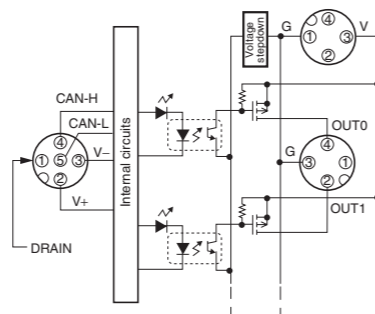
DRT2-MD16CL (NPN)
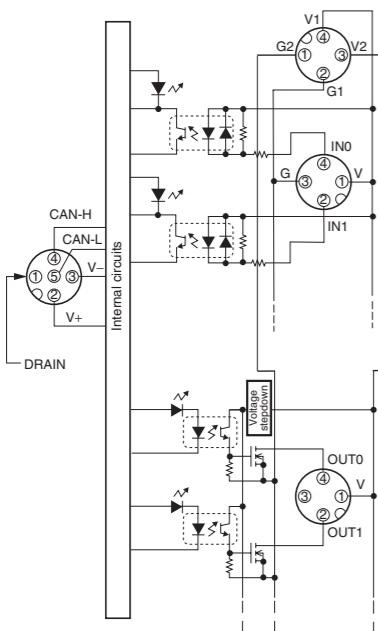
DRT2-MD16CL-1 (PNP)
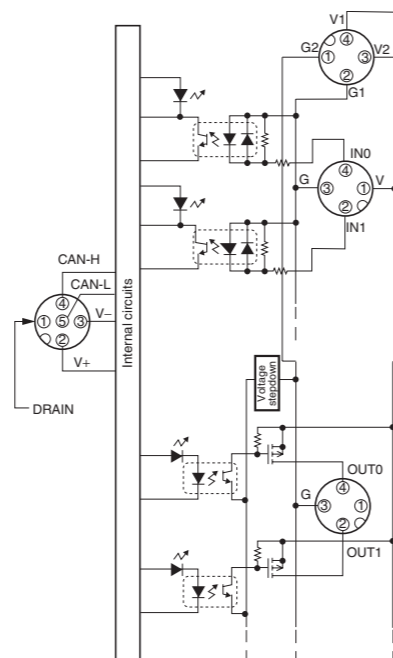
Dimensions

(Unit: mm)

■Remote I/O Terminals with Transistors

●Remote I/O Terminals

DRT2-ID08(-1)
DRT2-OD08(-1)
DRT2-MD16(-1)

43.9

50

115

3.1

29.9

49.7
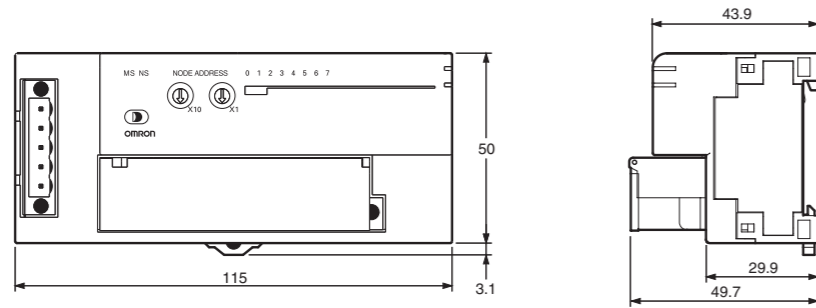
■MIL Connector Terminals with Transistors

DRT2-ID16ML(-1)
DRT2-OD16ML(-1)
DRT2-ID16MLX(-1)
DRT2-OD16MLX(-1)
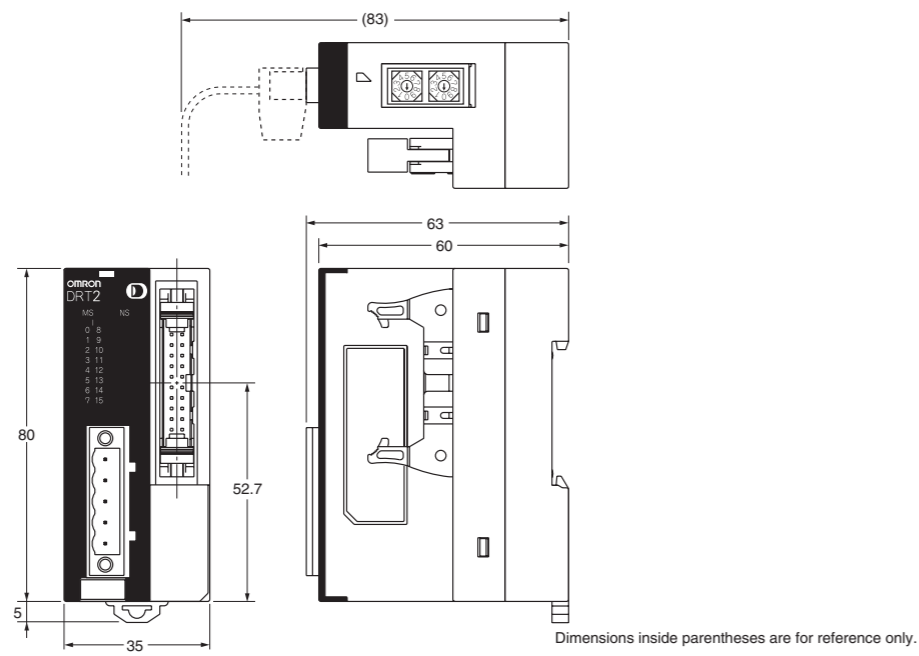
(83)

63

60

80

52.7

5

35

Dimensions inside parentheses are for reference only.

■Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors

DRT2-ID04CL(-1)
DRT2-OD04CL(-1)

60

123

Two, M5 holes or 5.3 dia.

Mounting hole dimensions

113±0.2

(125)

37.7

27.3

DRT2-ID08CL(-1)
DRT2-OD08CL(-1)
DRT2-HD16CL(-1)
DRT2-WD16CL(-1)
DRT2-MD16CL(-1)

60

175

Mounting hole dimensions

Two 5.3 dia.
or M5 holes

165±0.2

43.9
27.3

24.3 26.6
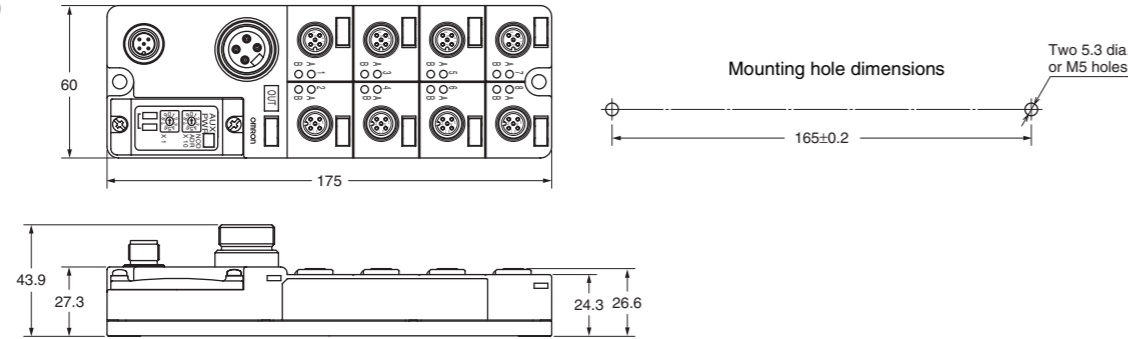
Wiring Diagrams

■Remote I/O Terminals with Transistors

DRT2-MD16 (NPN)

24 VDC

V1 1 3 5 7 V2 1 3 5 7 NC
G1 0 2 4 6 G2 0 2 4 6 NC

I/O power supply

Brown (red)
Black (white)
Blue (black)

Brown (white)
Blue (black)

I/O power supply

Solenoid, etc.   Valve, etc.

Three-wire sensor with
NPN output
(e.g., photoelectric sensor
or proximity sensor)

Two-wire sensor
(Limit switch, etc.)

DRT2-MD16-1 (PNP)

24 VDC

V1 1 3 5 7 V2 1 3 5 7 NC
G1 0 2 4 6 G2 0 2 4 6 NC

I/O power supply

Blue (black)
Black (white)
Brown (red)

Blue (black)
Brown (white)

I/O power supply

Solenoid, etc.   Valve, etc.

Three-wire sensor with
PNP output
(e.g., photoelectric sensor
or proximity sensor)

Two-wire sensor
(Limit switch, etc.)

DRT2-ID08 (NPN)

24 VDC

V 1 3 5 7 NC NC NC NC
G 0 2 4 6 NC NC NC NC

I/O power supply

Brown (red)
Black (white)
Blue (black)

Brown (white)
Blue (black)

Three-wire sensor with
NPN output
(e.g., photoelectric sensor
or proximity sensor)

Two-wire sensor
(Limit switch, etc.)

DRT2-ID08-1 (PNP)

24 VDC

V 1 3 5 7 NC NC NC NC
G 0 2 4 6 NC NC NC NC

I/O power supply

Blue (black)
Black (white)
Brown (red)

Blue (black)
Brown (white)

Three-wire sensor with
PNP output
(e.g., photoelectric sensor
or proximity sensor)

Two-wire sensor
(Limit switch, etc.)

DRT2-OD08 (NPN)

24VDC

V 1 3 5 7 NC NC NC NC
G 0 2 4 6 NC NC NC NC

I/O power supply

Solenoid, etc.   Valve, etc.

DRT2-OD08-1 (PNP)

24 VDC

V 1 3 5 7 NC NC NC NC
G 0 2 4 6 NC NC NC NC

I/O power supply

Solenoid, etc.   Valve, etc.

■MIL Connector Terminals with Transistors

DRT2-ID16ML(X)

DRT2-ID16ML(X)-1

DRT2-ID16MLX(-1)/DRT2-OD16MLX(-1)
Wiring Diagram for Enclosed Cable (with Connectors)

DRT2-OD16ML(X)

DRT2-OD16ML(X)-1

■Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors

DRT2-ID04CL (NPN)

Two-wire sensor
(Limit switch, etc.)

Three-wire sensor with NPN output
(e.g., photoelectric sensor or proximity sensor)

DRT2-ID04CL-1 (PNP)

Two-wire sensor
(Limit switch, etc.)

Three-wire sensor
with PNP output (e.g.,
photoelectric sensor
or proximity sensor)

DRT2-OD04CL (NPN)

Solenoid valve, etc.

Solenoid valve, etc.

DRT2-OD04CL-1 (PNP)

Solenoid valve, etc.

Solenoid valve, etc.

DRT2-ID08CL (NPN)

CAN L
CAN H 5
4   3 V−
DRAIN 1   2
V+

0V
2
NC 1
3 NC
4
24V

G 3   4 Input 0
2   1
NC   V

G 3   4 Input 2
2   1
NC   V

G 3   4 Input 4
2   1
NC   V

G 3   4 Input 6
2   1
NC   V

NC 2   3 G
1   4
V   Input 1

NC 2   3 G
1   4
V   Input 3

2   3 G
1   4
Input 5

NC 2   3 G
1   4
V   Input 7

I/O power supply   24 VDC

Blue (black)
Brown (white)

Two-wire sensor
(Limit switch, etc.)

Blue (black)
Black (white)
Brown (red)

Three-wire sensor with NPN output
(e.g., photoelectric sensor or proximity sensor)

DRT2-ID08CL-1 (PNP)

CAN L
CAN H 5
4   3 V−
DRAIN 1   2
V+

0V
2
NC 1
3 NC
4
24V

G 3   4 Input 0
2   1
NC   V

G 3   4 Input 2
2   1
NC   V

G 3   4 Input 4
2   1
NC   V

G 3   4 Input 6
2   1
NC   V

NC 2   3 G
1   4
V   Input 1

NC 2   3 G
1   4
V   Input 3

NC 2   3 G
1   4
V   Input 5

NC 2   3 G
1   4
V   Input 7

I/O power supply   24 VDC

Blue (black)
Brown (white)

Two-wire sensor
(Limit switch, etc.)

Blue (black)
Black (white)
Brown (red)

Three-wire sensor with PNP output
(e.g., photoelectric sensor or proximity sensor)

DRT2-OD08CL (NPN)

CAN L
CAN H 5
4   3 V−
DRAIN 1   2
V+

NC
2
24V 3   1 0V
4
NC

NC 3   4 Output 0
2   1
NC   V

NC   4 Output 2
2   1
NC   V

NC   4 Output 4
2   1
NC   V

NC   4 Output 6
2   1
NC   V

NC 2   3 NC
1   4
V   Output 1

NC 2   3 NC
1   4
V   Output 3

NC 2   3 NC
1   4
V   Output 5

NC 2   3 NC
1   4
V   Output 7

I/O power supply

Solenoid valve, etc.

Solenoid valve, etc.

DRT2-OD08CL-1 (PNP)

DRT2-HD16CL (NPN)

DRT2-HD16CL-1 (PNP)

DRT2-WD16CL (NPN)

CAN L
CAN H 5 V−
DRAIN V+
NC
24V 0V
NC

NC 3 Output 0 | NC 3 Output 4 | NC 3 Output 8 | NC 3 Output 12
Output 1 V | Output 5 V | Output 9 V | Output 13 V

Output 3 NC | Output 7 NC | Output 11 NC | Output 15 NC
V Output 2 | V Output 6 | V Output 10 | V Output 14

I/O power supply

Solenoid valve, etc.   Solenoid valve, etc.

DRT2-WD16CL-1 (PNP)

CAN L
CAN H 5 V−
DRAIN V+
NC
24V 0V
NC

G 3 Output 0 | G 3 Output 4 | G 3 Output 8 | G 3 Output 12
Output 1 NC | Output 5 NC | Output 9 NC | Output 13 NC

Output 3 G | Output 7 G | Output 11 G | Output 15 G
NC Output 2 | NC Output 6 | NC Output 10 | NC Output 14

I/O power supply

Solenoid valve, etc.   Solenoid valve, etc.

DRT2-MD16CL (NPN)

CAN L
CAN H 5 V−
V2
DRAIN V+
G1
G2
V1

G1 3 Input 0 | NC 3 Input 4 | NC 3 Output 4 | NC 3 OUT4
Input 1 V1 | Input 5 V1 | Output 1 V2 | Output 5 V2

Input 3 G1 | Input 7 G1 | Output 3 NC | Output 7 NC
V1 Input 2 | V1 Input 6 | V2 Output 2 | V2 Output 6

24 V for outputs
24 V for inputs
I/O power supply

Blue (black) Brown (white)
Two-wire sensor (Limit switch, etc.)

Blue (black) Black (white) Brown (red)
Three-wire sensor with NPN output (e.g., photoelectric sensor or proximity sensor)

Solenoid valve, etc.   Solenoid valve, etc.

DRT2-MD16CL-1 (PNP)

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Applicable Cables

■MIL Connectors with Transistors

●Connector-Terminal Block Conversion Unit and Connecting
  Cable (16 Points)
Cables with Connectors (1:1)

Model	Applicable cable	Connected Relay Terminal	Remarks
DRT2-ID16ML DRT2-ID16ML-1 DRT2-OD16ML DRT2-OD16ML-1	G79-O□C	XW2D-20G6 XW2B-20G5 XW2B-20G4 XW2C-20G6-IO16	Connector Terminal Block Conversion Unit

●I/O Relay Terminal Connector Cables (16 Points)
Cables with Connectors (1:1)

Model	Applicable cable	Connected Relay Terminal	Remarks
DRT2-ID16ML	G79-I□C	G7TC-ID16 G7TC-IA16	For I/O Relay Terminal inputs
DRT2-ID16ML-1	---	---	(No applicable models)
DRT2-OD16ML	G79-O□C	G7TC-OC16/OC08 G70D-SOC16/VSOC16 G70D-FOM16/VFOM16 G70A-ZOC16-3 G70D-SOC08 G70R-SOC08	For I/O Relay Terminal outputs
DRT2-OD16ML-1	G79-I□C	G7TC-OC16-1	For I/O Relay Terminal outputs
	G79-O□C	G70D-SOC16-1 G70D-FOM16-1 G70A-Z0C16-4	For I/O Relay Terminal outputs

●Cables with Loose Wires with Crimp Terminals
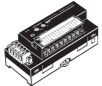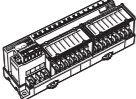
Model	Applicable cable	Remarks
DRT2-ID16ML DRT2-ID16ML-1 DRT2-OD16ML DRT2-OD16ML-1	G79A-Y□C-D1	20-pole connector/ bundled cable (with crimp-style terminals) conversion cable
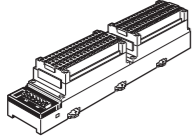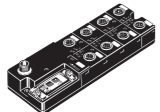
●Cables with Loose Wires

Model	Applicable cable	Remarks
DRT2-ID16ML DRT2-ID16ML-1 DRT2-OD16ML DRT2-OD16ML-1	G79A-A□C-D1	20-pole connector/ bundled cable conversion cable
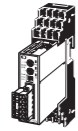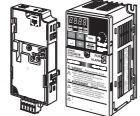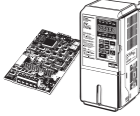
List of Models

●DRT2-series Smart Slaves

Product name	Shape	Model	Specifications	Approved standards
Remote I/O Basic Terminals with Transistors		DRT2-ID16	16 inputs, NPN (+ common)	UC, CE
		DRT2-ID16-1	16 inputs, PNP (− common)	
		DRT2-OD16	16 outputs, NPN (− common)	
		DRT2-OD16-1	16 outputs, PNP (+ common)	
		DRT2-MD16	8 inputs/8 outputs with NPN, + common for inputs, − common for outputs	
		DRT2-MD16-1	8 inputs/8 outputs with PNP, − common for inputs, + common for outputs	
		DRT2-ID08	8 inputs, NPN (+ common)	
		DRT2-ID08-1	8 inputs, PNP (− common)	
		DRT2-OD08	8 outputs, NPN (− common)	
		DRT2-OD08-1	8 outputs, PNP (+ common)	
Remote I/O Terminal Expansion Units with Transistors		XWT-ID08	8 inputs for terminals with NPN, + common	UC, CE
		XWT-ID08-1	8 inputs for terminals with PNP, − common	
		XWT-OD08	8 outputs for terminals with NPN, − common	
		XWT-OD08-1	8 outputs for terminals with PNP, + common	
		XWT-ID16	16 inputs for terminals with NPN, + common	
		XWT-ID16-1	16 inputs for terminals with PNP, − common	
		XWT-OD16	16 outputs for terminals with NPN, − common	
		XWT-OD16-1	16 outputs for terminals with PNP, + common	
Remote I/o Terminals with 3-tier Terminal Blocks with Transistors		DRT2-ID16TA	16 inputs with NPN, + common	UC, CE
		DRT2-ID16TA-1	16 inputs with PNP, − common	
		DRT2-OD16TA	16 outputs with NPN, − common	
		DRT2-OD16TA-1	16 outputs with PNP, + common	
		DRT2-MD16TA	8 inputs/8 outputs with NPN, + common for inputs, − common for outputs	
		DRT2-MD16TA-1	8 inputs/8 outputs with PNP, − common for inputs, + common for outputs	
MIL Connector Terminals with Transistors		DRT2-ID32ML	32 inputs with NPN, + common	UC, CE
		DRT2-ID32ML-1	32 inputs with PNP, − common	
		DRT2-OD32ML	32 outputs with NPN, − common	
		DRT2-OD32ML-1	32 outputs with PNP, + common	
		DRT2-MD32ML	16 inputs/16 outputs with NPN, + common for inputs, − common for outputs	
		DRT2-MD32ML-1	16 inputs/16 outputs with PNP, − common for inputs, + common for outputs	
		DRT2-ID16ML	16 inputs with NPN, + common	
		DRT2-ID16ML-1	16 inputs with PNP, − common	
		DRT2-OD16ML	16 outputs with NPN, − common	
		DRT2-OD16ML-1	16 outputs with PNP, + common	
		DRT2-ID16MLX	16 inputs with NPN, + common, cable with connectors: 10 cm	
		DRT2-ID16MLX-1	16 inputs with PNP, − common, cable with connectors: 10 cm	
		DRT2-OD16MLX	16 outputs with NPN, − common, cable with connectors: 10 cm	
		DRT2-OD16MLX-1	16 outputs with PNP, + common, cable with connectors: 10 cm	
Remote I/O Terminals with Relay Outputs		DRT2-ROS16	16 outputs	UR, CE
Board Terminals with MIL Connectors (horizontal mounting)		DRT2-ID32B	32 inputs, NPN (+ common)	U, CE
		DRT2-ID32B-1	32 inputs, PNP (− common)	
		DRT2-OD32B	32 outputs, NPN (− common)	
		DRT2-OD32B-1	32 outputs, PNP (+ common)	
		DRT2-MD32B	16 inputs/16 outputs, NPN (inputs: + common/outputs: − common)	
		DRT2-MD32B-1	16 inputs/16 outputs, PNP (inputs: − common/outputs: + common)	
Board Terminals with MIL Connectors (vertical mounting)		DRT2-ID32BV	32 inputs, NPN (+ common)	U, CE
		DRT2-ID32BV-1	32 inputs, PNP (− common)	
		DRT2-OD32BV	32 outputs, NPN (− common)	
		DRT2-OD32BV-1	32 outputs, PNP (+ common)	
		DRT2-MD32BV	16 inputs/16 outputs, NPN (inputs: + common/outputs: − common)	
		DRT2-MD32BV-1	16 inputs/16 outputs, PNP (inputs: − common/outputs: + common)	

Product name	Shape	Model	Specifications	Approved standards
Screw-less Clamp Terminals with Transistors		DRT2-ID32SLH	32 inputs, NPN (+ common) with detection functions	UC, CE
		DRT2-ID32SLH-1	32 inputs, PNP (− common) with detection functions	
		DRT2-OD32SLH	32 outputs, NPN (− common) with detection functions	
		DRT2-OD32SLH-1	32 outputs, PNP (+ common) with detection functions	
		DRT2-MD32SLH	16 inputs/16 outputs, NPN (inputs: + common/outputs: − common) with detection functions	
		DRT2-MD32SLH-1	16 inputs/16 outputs, PNP (inputs: − common/outputs: + common) with detection functions	
		DRT2-ID32SL	32 inputs, NPN (+ common) without detection functions	
		DRT2-ID32SL-1	32 inputs, PNP (− common) without detection functions	
		DRT2-OD32SL	32 outputs, NPN (− common) without detection function	
		DRT2-OD32SL-1	32 outputs, PNP (+ common) without detection function	
		DRT2-MD32SL	16 inputs/16 outputs, NPN (inputs: + common/outputs: − common) without detection function	
		DRT2-MD32SL-1	16 inputs/16 outputs, PNP (inputs: − common/outputs: + common) without detection function	
Environment-resistive Terminals with Transistors		DRT2-ID08C	8 inputs, NPN (+ common) with detection functions	UC, CE
		DRT2-ID08C-1	8 inputs, PNP (− common) with detection functions	
		DRT2-OD08C	8 outputs, NPN (− common) with detection functions	
		DRT2-OD08C-1	8 outputs, PNP (+ common) with detection functions	
		DRT2-HD16C	16 inputs, NPN (+ common) with detection functions	
		DRT2-HD16C-1	16 inputs, PNP (− common) with detection functions	
Environment-resistive Terminals with Transistors		DRT2-ID04CL	4 inputs, NPN (+ common) without detection functions	UC, CE
		DRT2-ID04CL-1	4 inputs, PNP (− common) without detection functions	
		DRT2-OD04CL	4 outputs, NPN (− common) without detection functions	
		DRT2-OD04CL-1	4 outputs, PNP (+ common) without detection functions	
		DRT2-ID08CL	8 inputs, NPN (+ common) without detection functions	UC, CE
		DRT2-ID08CL-1	8 inputs, PNP (− common) without detection functions	
		ÄDRT2-OD08CL	8 outputs, NPN (− common) without detection functions	
		DRT2-OD08CL-1	8 outputs, PNP (+ common) without detection functions	
		DRT2-HD16CL	16 inputs, NPN (+ common) without detection functions	
		DRT2-HD16CL-1	16 inputs, PNP (− common) without detection functions	
		DRT2-WD16CL	16 outputs, NPN (− common) without detection functions	
		DRT2-WD16CL-1	16 outputs, PNP (+ common) without detection functions	
		DRT2-MD16CL	8 inputs/8 outputs, NPN (inputs: + common/outputs: − common) without detection function	
		DRT2-MD16CL-1	8 inputs/8 outputs, PNP (inputs: − common/outputs: + common) without detection function	
e-con Connector Terminals		DRT2-ID16S	16 inputs, NPN (+ common)	UC, CE
		DRT2-ID16S-1	16 inputs, PNP (− common)	
		DRT2-MD16S	8 inputs/8 outputs, NPN (inputs: + common/outputs:− common)	
		DRT2-MD16S-1	8 inputs/8 outputs, PNP (inputs: − common/outputs: + common)	
Analog Input Terminals		DRT2-AD04	4 inputs (resolution: 6,000)	UC, CE
		DRT2-AD04H	4 inputs (resolution: 30,000)	
Analog Output Terminals		DRT2-DA02	2 outputs	
Temperature Input Terminals with Thermocouple Inputs		DRT2-TS04T	4 inputs	U, CE
Temperature Input Terminals with Resistance-thermometer Inputs		DRT2-TS04P	4 inputs	

●Intelligent Slaves

Product name	Shape	Model	Specifications	Approved standards
Modular Temperature Controllers		E5ZN-DRT	DeviceNet Communications Unit for E5ZN	---
		E5ZN-SCT24S	Terminal Unit	
	---	E5ZN-SDL	Setting Display Unit	
Multi-function Compact Inverter		3G3MV-PDRT2	Communications Unit for 3G3MV Inverters	U, CE
High-function General-purpose Inverters		3G3RV-PDRT2	3G3RV/3G3FV DeviceNet Communications Card	U, CE

MEMO

New!

OMRON

*Device**Net*** Smart Slaves

Remote I/O Terminals with Transistors
DRT2-ID08(-1)/OD08(-1)/MD16(-1)

MIL Connector Terminals with Transistors
DRT2-ID16ML(-1)/OD16ML(-1)/ID16MLX(-1)/OD16MLX(-1)

Environment-resistive Terminals with Transistors (without detection functions)
DRT2-ID04CL(-1)/OD04CL(-1)/ID08CL(-1)/OD08CL(-1)/
MD16CL(-1)/HD16CL(-1)

Remote Maintenance
The lineup now includes a wide variety of Smart Slaves with different numbers of control points that contribute to production site servicing and repair.

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

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