

DeviceNet Smart Slaves

ALL PRINTING MINIS

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)/

Remote Maintenance

MD16CL(-1)/HD16CL(-1)

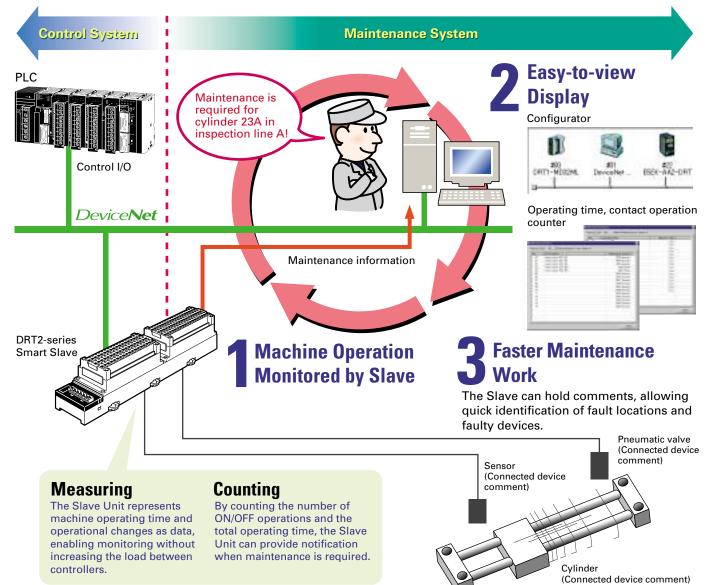
The lineup now includes a wide variety of Smart Slaves with different numbers of control points that contribute to production site servicing and repair.



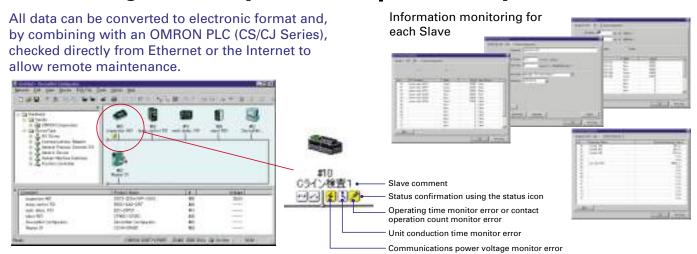


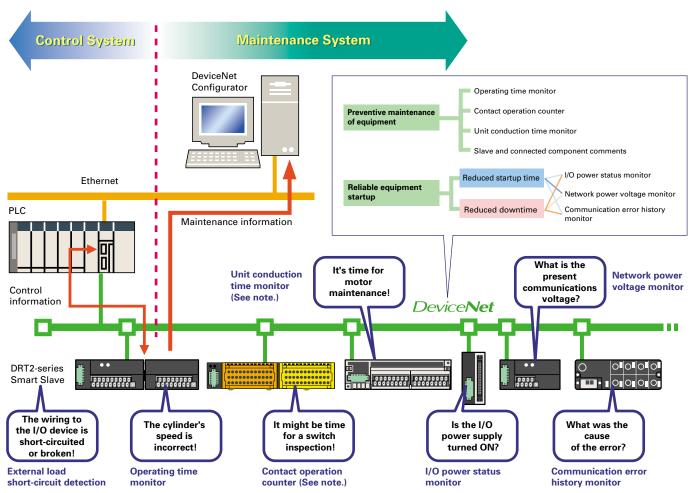
Use production site information in a variety of applications, such as maintenance and quality control.

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.



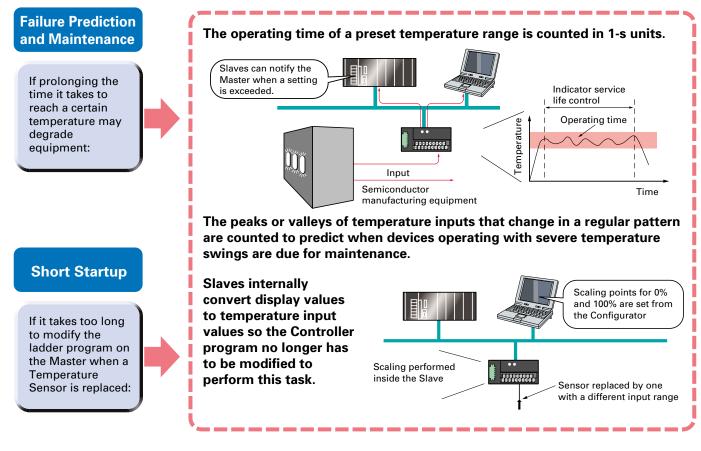
Collect a variety of data from maintenance systems without influencing control systems and productivity.





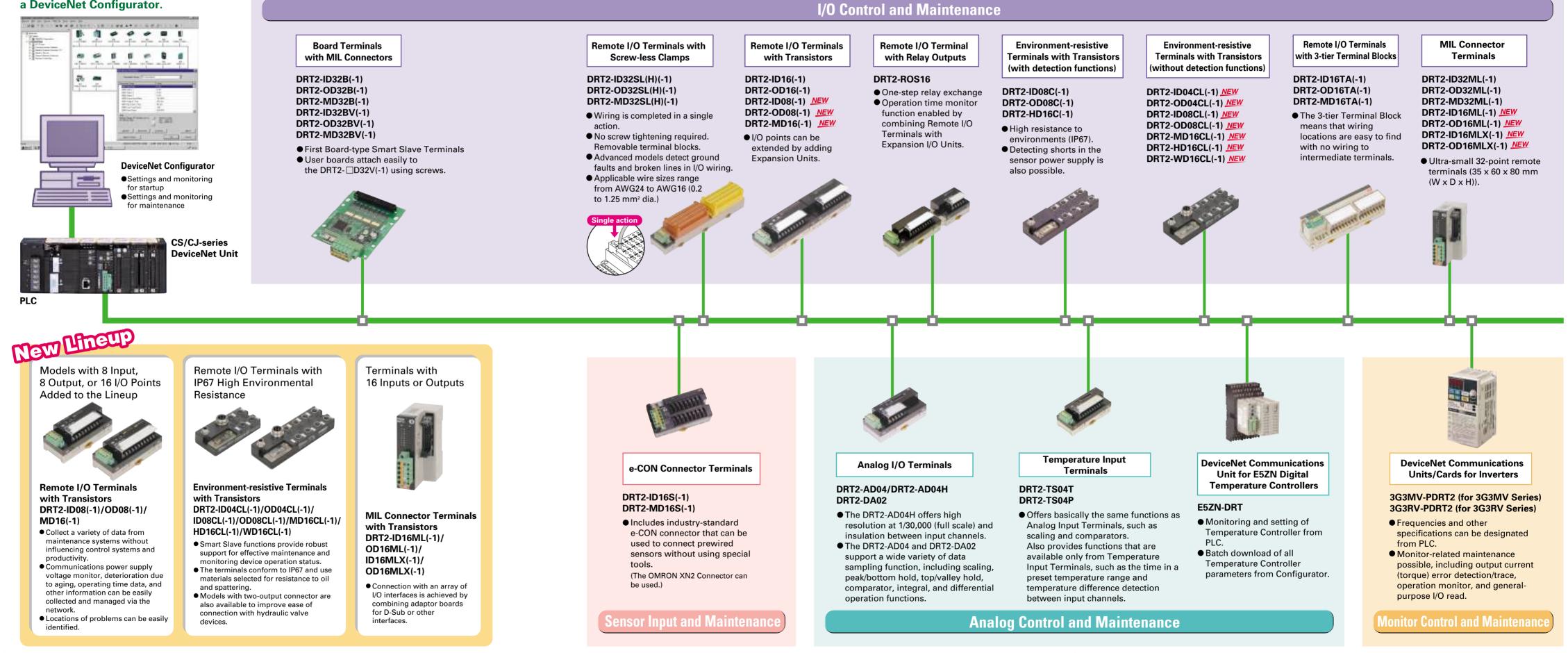
Note: The contact operation counter function and the unit conduction time monitor function cannot be used simultaneously.

Using OMRON Temperature Input Terminals for Maintenance



Wide variety of control and maintenance functions using DeviceNet.





Functions Supported by Smart Slaves

	Slave name		General-purpose Slaves							Ge	eneral-pu	urpose SI	aves			Environmen	t-resistive \$	Slaves			neral- e Slaves	, A	nalog Slav	es									
				Remote I/O Terminals						MIL Connector Terminals Board Terminals		nals	Screw-less Clamp Terminals				Environment-resistive Terminals				e-con Connector		Analog I/O T	erminals	Temperature Input								
	Туре	•	Mode	ls with T	ransisto	ors	Model w Relay O			ls with hinal Blo			odels wit ansistors			els with onnector			with Trar ection Fu			s with Tra Detection			ith Transistors ction Functions			ansistors Functions	Term		/ maiog # 0 1		Terminals
	Mode		Г2- 16(-1)	DRT □D0	2- 8(-1)	DRT2- MD16(-	-1) DRT2 ROS		DRT2	-□D161	TA(-1)	DRT2-	□D32M □D16M □D16M	L(-1)		-□D32E -□D32E		DRT2	D32SL	.H(-1)	DR	Г2-□D32	SL(-1)	DRT2- DRT2-	D08C(-1) D16C(-1)	DRT	Γ2-□D04 Γ2-□D08 Γ2-□D16	CL(-1)	DRT	2- 6S(-1)	DRT2- AD04 AD04	- DRT2- H DA02	DRT2-TS04
Function	I/O classification	Input	Output	Input	Output	Input/ outpu		out I	Input	Output	Input/ output	Input		Input/ output	Input		Input/ output	Input	Output	Input/ output	Input	Output	Input/ output	Input	Output	Input	Output	Input/ output	Input	Input/ output	Input	Output	Input
Operating time mo	onitor		outs and ts only)		-		О			О	Π		О		ļ	0		L.	О			О	1			_1	1	О		0		I.	
Contact operation	count monitor						0	1					О			0					0					О				0			
Unit conduction tin	ne monitor						0						О			0					0					0				0	O		0
Total RUN (ON) tir	me monitor						0						О			0					0					О				0			
Unit comment							0						О			0					0					О				0	0		О
Connected device	comment						0						О			0					0					0				0	0		О
Network power vol	Itage monitor						0						О			0					0					О				0	0		О
I/O power status m	nonitor			0						0			О			0					0					О							
Communications e	error history monitor						0						О			0					0					0				0	0		О
Input filter		0		0		0			О		0	0		0	О		О	О		(0		0	О		О		О		0			
Prevention of malf sensor inrush curre		0		о		О			0		0	0		0	О		0	О		(0		О	О		о		О		0			
Sensor power sho	rt-circuit detection		1								1				1			О		0			-	О			1	-		0			
External load shor	t-circuit detection																		O (See	note.)					О					О			
Sensor disconnect	tion detection																	О		О				О									
External load disco	onnection detection																		0	0					-								
Removable termin	al blocks						0											1	1		0										О		О
Automatic baud ra	te detection						0						О			О					0					0				0	О		О
Unit power supply	wiring not required						0						О			О					О					0				0	О		О
Power supply wirin input devices	ng not required for																							О						0			
Expansion I/O Uni	ts mountable	(С				0																		-								
Scaling				•																											0		О
User calibration																									-						0		О
Last maintenance	date						0						О			0					О					О				0	0		О
Integral function																															0		О
Moving average p	rocessing																														О		О
Number of AD con setting (conversion																															О		
Peak/bottom hold																															О		О
Top/valley hold																															О		О
Change rate calcu	lations																														О		О
Comparator function	on																														О		О
Setting output valu	le for errors																															0	
Top/valley count																																	О
Operating time in a temperature range																																	о
Temperature differ between input cha																																	О

O: 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.



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 ms ² for 80 min each in the X, Y, and Z directions					
Shock resistance	150m/s ² , 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					

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.			
NPN		5 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 vollage	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 Mode	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	L			
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 comr	non	NPN	PNP				
Number of I/O po	pints	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 com	mon	NPN	PNP			
Number of I/O p	oints	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	y 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 con	nmon	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 supp	ly 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 Mode	DRT2-MD16	DRT2-MD16-1					
Internal I/O common	NPN	PNP					
Number of I/O points	8 outputs	8 outputs					
Rated output current	0.5 A per point, 4 A per comm	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

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 con	mmon	NPN	PNP	
Number of I/O	points	4 outputs		
Rated output c	urrent	0.5 A per point, 4 A per comm	on	
Residual volta	ge	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 curre	nt	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	э	1.5 ms max.		
Number of poir common	nts per	4 points per common		

• Terminals with 8 Outputs

Item	Model	DRT2-OD08CL	DRT2-OD08CL-1	
Internal I/O comm	non	NPN	PNP	
Number of I/O po	ints	8 outputs		
Rated output curr	rent	0.5 A per point, 4 A per comm	on	
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 common	per	8 points per common		

• Terminals with 16 Outputs

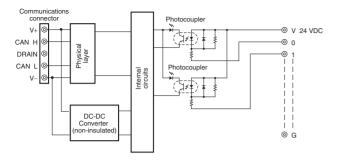
Item Mod	DRT2-WD16CL	DRT2-WD16CL-1		
Internal I/O common	NPN	PNP		
Number of I/O points	16 outputs	16 outputs		
Rated output current	0.5 A per point, 4 A per comm	non		
Residual voltage	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)		
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

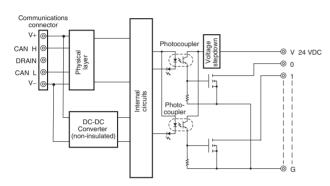
Item	Model	DRT2-MD16CL	DRT2-MD16CL-1	
Internal I/O com	imon	NPN	PNP	
Number of I/O p	oints	8 outputs		
Rated output cu	irrent	0.5 A per point, 4 A per comm	on	
Residual voltage	e	1.2 V max. (0.5 A DC between each output terminal and G)	1.2 V max. (0.5 A DC between each output terminal and V)	
Leakage curren	t	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

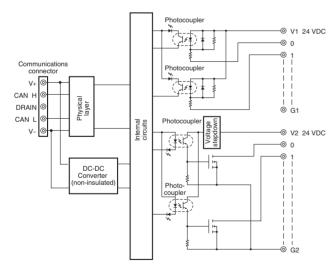
Remote I/O Terminals with Transistors DRT2-ID08 (NPN)



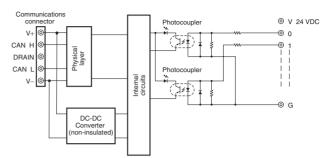
DRT2-OD08 (NPN)



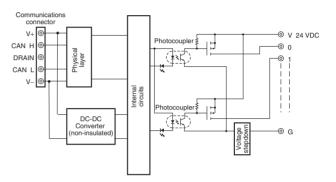
DRT2-MD16 (NPN)



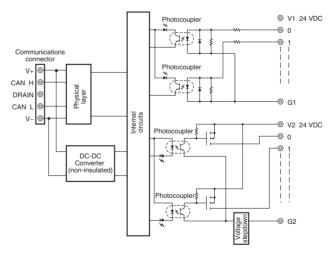
DRT2-ID08-1 (PNP)



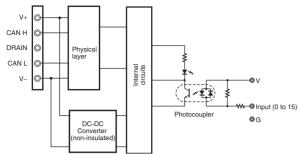
DRT2-OD08-1 (PNP)



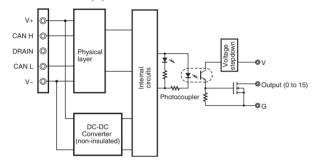
DRT2-MD16-1 (PNP)



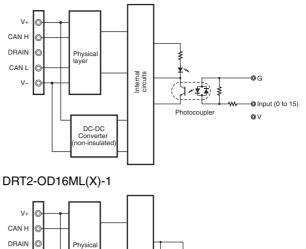
■MIL Connector Terminals with Transistors DRT2-ID16ML(X)

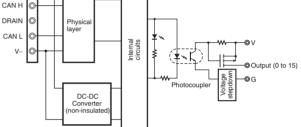


DRT2-OD16ML(X)

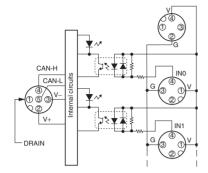


DRT2-ID16ML(X)-1

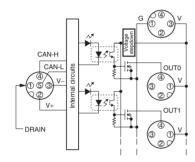




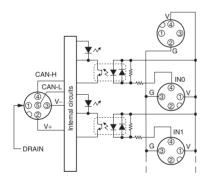
Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors DRT2-ID04CL (NPN) DRT2-ID04CL-1 (PNP)



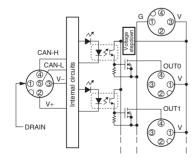
DRT2-OD04CL (NPN)

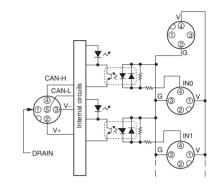


DRT2-ID08CL (NPN)

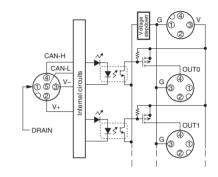


DRT2-OD08CL (NPN)

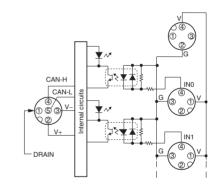




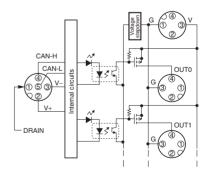
DRT2-OD04CL-1 (PNP)



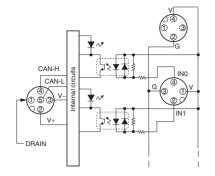
DRT2-ID08CL-1 (PNP)



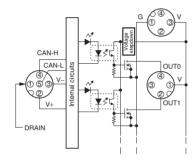
DRT2-OD08CL-1 (PNP)



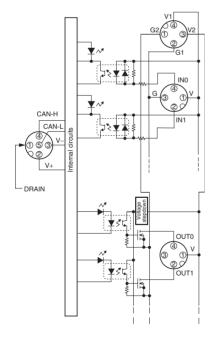
DRT2-HD16CL (NPN)



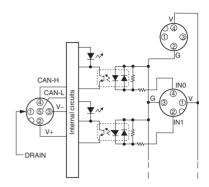
DRT2-WD16CL (NPN)



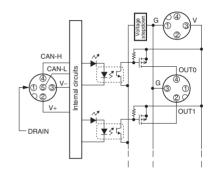
DRT2-MD16CL (NPN)



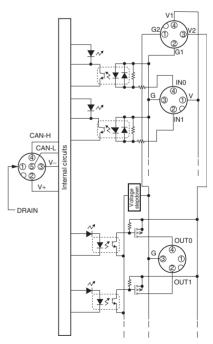
DRT2-HD16CL-1 (PNP)



DRT2-WD16CL-1 (PNP)



DRT2-MD16CL-1 (PNP)



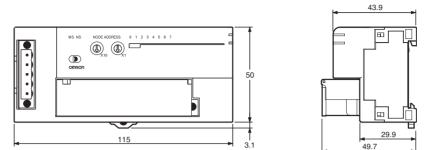
(Unit: mm)

Dimensions

Remote I/O Terminals with Transistors

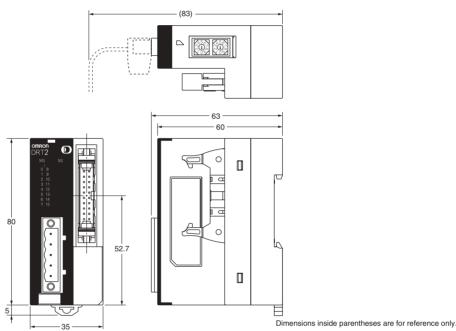


DRT2-ID08(-1) DRT2-OD08(-1) DRT2-MD16(-1)



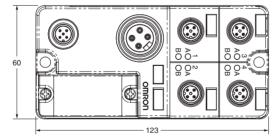
■MIL Connector Terminals with Transistors

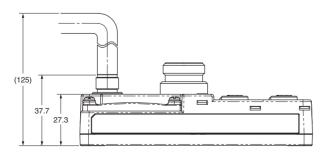
DRT2-ID16ML(-1) DRT2-OD16ML(-1) DRT2-ID16MLX(-1) DRT2-OD16MLX(-1)

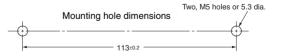


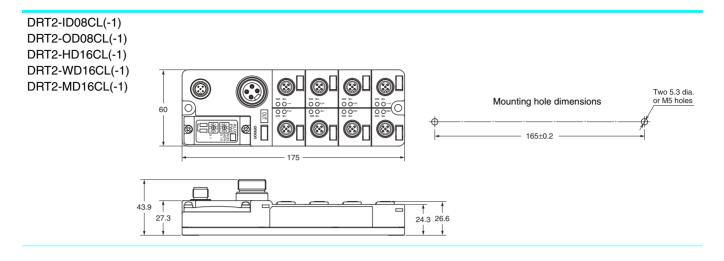
Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors DRT2-ID04CL(-1)

DRT2-OD04CL(-1)



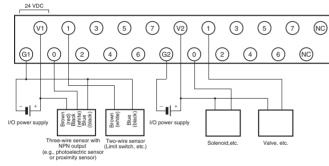




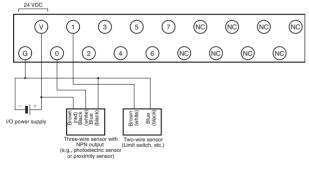


Wiring Diagrams

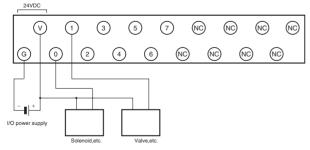
Remote I/O Terminals with Transistors DRT2-MD16 (NPN)



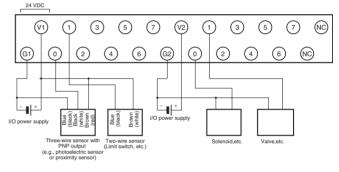
DRT2-ID08 (NPN)



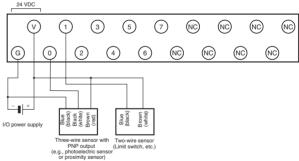
DRT2-OD08 (NPN)



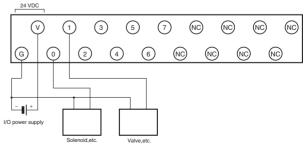
DRT2-MD16-1 (PNP)



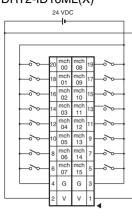
DRT2-ID08-1 (PNP)



DRT2-OD08-1 (PNP)

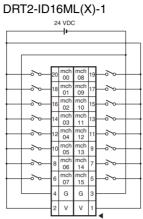


■MIL Connector Terminals with Transistors DRT2-ID16ML(X) DRT2-ID



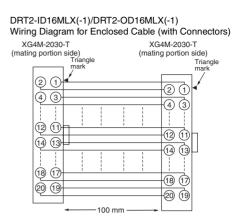
DRT2-OD16ML(X)

	24 VDC	
	•	
	20 mch mch 19 D	_
	18 01 09 17 D	_
L	te mch mch te	
	14 03 11 13	
	12 mch mch 11 0	_
	10 mch mch 9	
	o mch mch -	
	6 07 15 5 C	
	4 G G 3	
	2 V V 1	

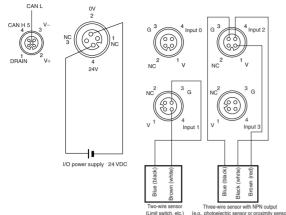


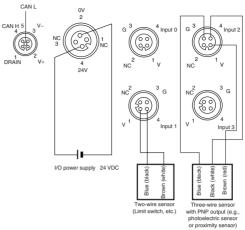
DRT2-OD16ML(X)-1

	2		>		
-0-	20	mch 00	mch 08	19	
-0-	18	mch 01	mch 09	17	
-0-	16	mch 02	mch 10	15	
-O-	14	mch 03	mch 11	13	
-0-	12	mch 04	mch 12	11	
-0-	10	mch 05	mch 13	9	
-0-	8	mch 06	mch 14	7	
-0-	6	mch 07	mch 15	5	
	4	G	G	3	
	2	٧	۷	1	

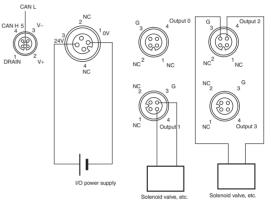


Standard Environment-resistive Terminals and Environment-resistive Terminals with Transistors DRT2-ID04CL (NPN) DRT2-ID04CL-1 (PNP)

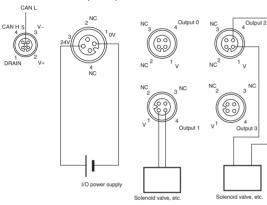




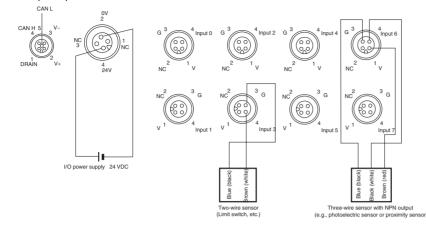
DRT2-OD04CL-1 (PNP)



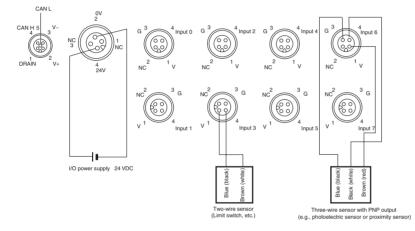
DRT2-OD04CL (NPN)



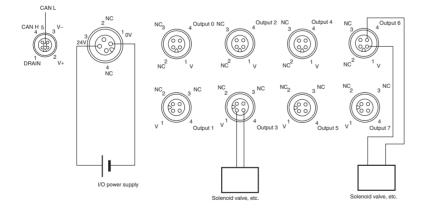
DRT2-ID08CL (NPN)



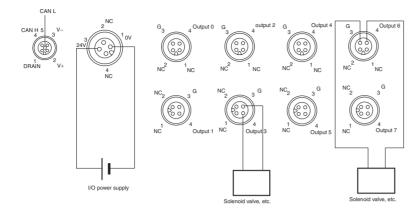
DRT2-ID08CL-1 (PNP)



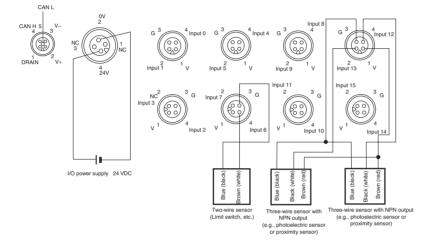
DRT2-OD08CL (NPN)



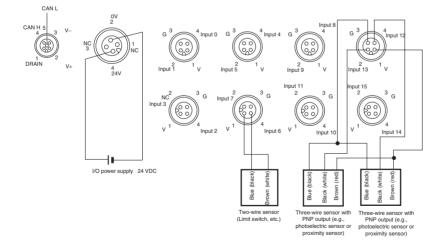
DRT2-OD08CL-1 (PNP)



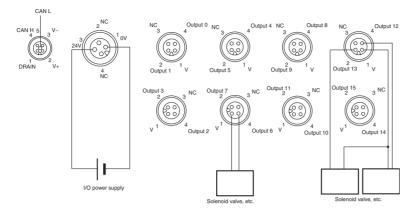
DRT2-HD16CL (NPN)



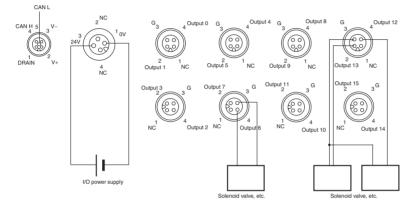
DRT2-HD16CL-1 (PNP)



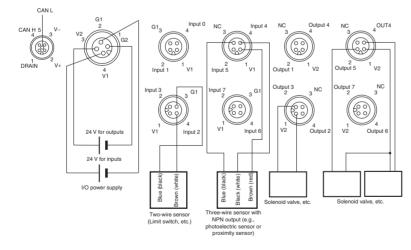
DRT2-WD16CL (NPN)



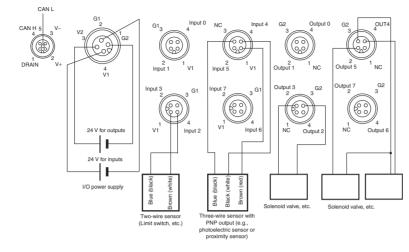
DRT2-WD16CL-1 (PNP)



DRT2-MD16CL (NPN)



DRT2-MD16CL-1 (PNP)



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
	G79-I⊡C	G7TC-OC16-1	For I/O Relay Terminal outputs
DRT2-OD16ML-1	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	Approve standard
		DRT2-ID16	16 inputs, NPN (+ common)	
		DRT2-ID16-1	16 inputs, PNP (– common)	
		DRT2-OD16	16 outputs, NPN (– common)	
		DRT2-OD16-1	16 outputs, PNP (+ common)	
Remote I/O Basic		DRT2-MD16	8 inputs/8 outputs with NPN, + common for inputs, – common for outputs	UC, CE
Terminals with Transistors		DRT2-MD16-1	8 inputs/8 outputs with PNP, – common for inputs, + common for outputs	00, 02
		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)	
		XWT-ID08	8 inputs for terminals with NPN, + common	
		XWT-ID08-1	8 inputs for terminals with PNP, - common	
		XWT-OD08	8 outputs for terminals with NPN, - common	
Remote I/O Terminal	The State of State	XWT-OD08-1	8 outputs for terminals with PNP, + common	
Expansion Units with Fransistors		XWT-ID16	16 inputs for terminals with NPN, + common	UC, CE
	and the second s	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	
		DRT2-ID16TA	16 inputs with NPN, + common	
		DRT2-ID16TA-1	16 inputs with PNP, – common	
	THE REAL PROPERTY AND	DRT2-OD16TA	16 outputs with NPN, – common	
Remote I/o Terminals with	A STORE STORE	DRT2-OD16TA-1	16 outputs with PNP, + common	
B-tier Terminal Blocks with Transistors		DRT2-MD16TA	8 inputs/8 outputs with NPN, + common for inputs, – common for outputs	UC, CE
	V	DRT2-MD16TA-1	8 inputs/8 outputs with PNP, – common for inputs, + common for outputs	
		DRT2-ID32ML	32 inputs with NPN, + common	
		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	
MIL Connector Terminals		DRT2-MD32ML-1	16 inputs/16 outputs with PNP, - common for inputs, + common for outputs	
with Transistors	<u>s</u>	DRT2-ID16ML	16 inputs with NPN, + common	UC, CE
		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	Contraction of the second	DRT2-ROS16	16 outputs	UR, CE
		DRT2-ID32B	32 inputs, NPN (+ common)	_
Board Terminals with MIL		DRT2-ID32B-1	32 inputs, PNP (– common)	_
Connectors (horizontal		DRT2-OD32B	32 outputs, NPN (– common)	U, CE
nounting)		DRT2-OD32B-1	32 outputs, PNP (+ common)	_
	A ba	DRT2-MD32B	16 inputs/16 outputs, NPN (inputs: + common/outputs: - common)	_
		DRT2-MD32B-1	16 inputs/16 outputs, PNP (inputs: - common/outputs: + common)	
		DRT2-ID32BV	32 inputs, NPN (+ common)	
Board Terminals with MIL		DRT2-ID32BV-1	32 inputs, PNP (– common)	_
Connectors (vertical		DRT2-OD32BV	32 outputs, NPN (– common)	U, CE
nounting)		DRT2-OD32BV-1	32 outputs, PNP (+ common)	0, 0L
	Alva.	DRT2-MD32BV	16 inputs/16 outputs, NPN (inputs: + common/outputs: - common)	
		DRT2-MD32BV-1	16 inputs/16 outputs, PNP (inputs: - common/outputs: + common)	Ι

Product name	Shape	Model	Specifications	Approved standard
		DRT2-ID32SLH	32 inputs, NPN (+ common) with detection functions	
		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	
Screw-less Clamp		DRT2-MD32SLH-1	16 inputs/16 outputs, PNP (inputs: – common/outputs: + common) with detection functions	UC, CE
Terminals with Transistors	A A A A A A A A A A A A A A A A A A A	DRT2-ID32SL	32 inputs, NPN (+ common) without detection functions	00, 0L
		DRT2-ID32SL-1	32 inputs, PNP (- common) without detection functions	
	\checkmark	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	
		DRT2-ID08C	8 inputs, NPN (+ common) with detection functions	
		DRT2-ID08C-1	8 inputs, PNP (- common) with detection functions	
Environment-resistive		DRT2-OD08C	8 outputs, NPN (- common) with detection functions	UC, CE
Ferminals with Transistors		DRT2-OD08C-1	8 outputs, PNP (+ common) with detection functions	00, CE
		DRT2-HD16C	16 inputs, NPN (+ common) with detection functions	
	Ŷ.	DRT2-HD16C-1	16 inputs, PNP (– common) with detection functions	
		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	
		DRT2-ID08CL-1	8 inputs, PNP (- common) without detection functions	
		ÅDRT2-OD08CL	8 outputs, NPN (- common) without detection functions	
Environment-resistive		DRT2-OD08CL-1	8 outputs, PNP (+ common) without detection functions	
Ferminals with Transistors		DRT2-HD16CL	16 inputs, NPN (+ common) without detection functions	
	C	DRT2-HD16CL-1	16 inputs, PNP (- common) without detection functions	UC, CE
	a star	DRT2-WD16CL	16 outputs, NPN (- common) without detection functions	00,02
		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	
	4	DRT2-ID16S	16 inputs, NPN (+ common)	
e-con Connector		DRT2-ID16S-1	16 inputs, PNP (– common)	
erminals	10 m	DRT2-MD16S	8 inputs/8 outputs, NPN (inputs: + common/outputs:- common)	UC, CE
		DRT2-MD16S-1	8 inputs/8 outputs, PNP (inputs: - common/outputs: + common)	
		DRT2-AD04	4 inputs (resolution: 6,000)	
Analog Input Terminals		DRT2-AD04H	4 inputs (resolution: 30,000)	UC, CE
Analog Output Terminals		DRT2-DA02	2 outputs	_ 00, 0E
emperature Input erminals with hermocouple Inputs		DRT2-TS04T	4 inputs	
Temperature Input Terminals with Resistance-thermometer nputs	ut Contraction	DRT2-TS04P	4 inputs	U, CE

Intelligent Slaves

Product name	Shape	Model	Specifications	Approved standards		
Modulos Tomperatura		E5ZN-DRT	DeviceNet Communications Unit for E5ZN			
Modular Temperature Controllers		E5ZN-SCT24S	Terminal Unit			
		E5ZN-SDL	Setting Display Unit	7		
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

		<u> </u>																
	· · · · · ·		, 	n = = = - · I I	 	 I I	, 		 	 	, 	 	 	,	7 I I	 	, I I	
				1 1 ·		 			, 	 			 	 	1 7	і г і	 	
			 	 		 	 		 	 	 		 	 	1 1 1 1	 	 	
				1 1 1		 				 			 	 	1 1 1	1 1 1	1 1 1	
			! ! !	/ 		! ! !	 		L 	! ! !	 		 	! ! !	L	L I I	! ! !	J
			 	((; +	i ⊢ – – – – i	 	
			 	י י י י – – – י		 	 		 	 	 		 	 	 	י י ד	1 1 1 1	
			' 	' 		' 			 	' 	 		' 	' 	 1 1	- - - - - -	' ' '	
	L		 	 	 	 	 		 	 	 	 	 	 	 	 	 	 J
	, , , , , , , , , , , , , , , , , , ,		, , ,		, , , , , , , , , , , , , , , , , , , ,	 	, , ,				, , ,	, , ,			t = = = = =		 	, , , , , , , , , , , , , , , , , , ,
			 	; ; ;					 	 	·		 	 	 	- 	; ; ;	
	$\frac{1}{1}$		 	 		 	 		 	 	 		 	 		 	 	
			 	1 1 4	 	 	 	 	 	 	 	 	 	 	 	 	i i i= = = = = =]
			 	1 · 1 1		 	 			 	 		 	 	t I I	F I I	1 1 1	
	;		 	 ·		 	 		 	 	 		 	 	 	 	 	
			 	i i !			 		 	 	 	L		 	i i 1	i i L	i i 1	
				1 		 				 			 	 	1 	1 	1 	
				I I I		 			L	 	 	L	 	 	1 	L 	 	
	r		 	1 ·	 I	i i	 	r i	 I	ı — — — — — ı	 	r I	i i	i i	,		 	י ו ו ו
			 			 	 			 	 		 	 	1 1 1 1	1 1 1 1	1 1 1 1	
						1				1			1	1				
			 	: : : ;		 	 		 	 	 	 	 	 	i i i T = = = = =	і і г = = = = =	i i i	
			 	 		 	 		L I I	 	 			 	$\frac{1}{1}$	1 1 1 1	1 1 1 1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$																		
) 		 	 		 	 	 		 	 	 1	 	 	

Read and Understand this Catalog

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the product in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.

Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

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

OMRON Corporation Industrial Automation Company Control Devices Division H.Q. Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 Japan Tel:(81)75-344-7109 Fax:(81)75-344-7149

Regional Headquarters OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD Hoofddorp The Netherlands Tel:(31)2356-81-300/ Fax:(31)2356-81-388

OMRON ELECTRONICS LLC

1 East Commerce Drive, Schaumburg, IL 60173 U.S.A. Tel:(1)847-843-7900/Fax:(1)847-843-8568

OMRON ASIA PACIFIC PTE. LTD. 83 Clemenceau Avenue, #11-01, UE Square, Singapore 239920 Tel:(65)6835-3011/Fax:(65)6835-2711

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120 China Tel:(86)21-5037-2222/Fax:(86)21-5037-2200



Authorized Distributor:



Note: Specifications subject to change without notice. Cat. No. R110-E1-05 Printed in Japan 1006-0.3M