

1-1-4 Types of Slaves

The following classifications are used for DeviceNet Slaves.

For details on DRT1-series Slaves, including General-purpose Slaves, Environment-resistive Slaves, and Special Slaves, refer to the *DeviceNet DRT1 Series Slave Operation Manual (W347)*. For details on DRT2-series Slaves, including General-purpose Slaves, Environment-resistive Slaves, and Special Slaves, refer to the *DeviceNet DRT2 Series Slave Operation Manual (W404)*.

Refer to the *DeviceNet MULTIPLE I/O TERMINAL Operation Manual (W348)* for more details on the MULTIPLE I/O TERMINAL Slaves.

General-purpose Slaves

Slaves with I/O functions for 32 or fewer inputs and 32 or fewer outputs.

Environment-resistive Slaves

Slave with I/O functions for I/O that uses a round, waterproof connector connected to a communications cable.

Special Slaves


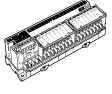
Slaves with more than 32 inputs or 32 outputs or Slaves with functions other than I/O.


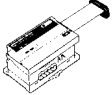
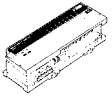
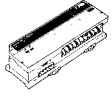
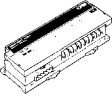
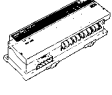
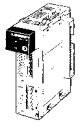
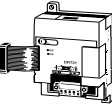
MULTIPLE I/O TERMINALS

These are high-density I/O Block Slaves.

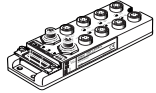
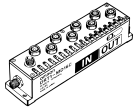

● DRT1 Slaves

General-purpose Slaves




Name	Appearance	I/O points	Model number	Communications cable	Remarks
Remote I/O Terminals with Transistors		8 input points (NPN)	DRT1-ID08	Normal square connectors	---
		8 input points (PNP)	DRT1-ID08-1		
		16 input points (NPN)	DRT1-ID16		
		16 input points (PNP)	DRT1-ID16-1		
		8 output points (NPN)	DRT1-OD08		
		8 output points (PNP)	DRT1-OD08-1		
		16 output points (NPN)	DRT1-OD16		
		16 output points (PNP)	DRT1-OD16-1		
Remote I/O Terminals with Transistors and 3-tier Terminal Block		8 input points+8 output points (NPN)	DRT1-MD16		Simple wiring (not necessary to tighten multiple wires together and wiring locations are easy to understand) The DRT1-□D16TA(-1) does not need a separate power supply for internal circuits (uses the communications power supply).
		16 input points (NPN)	DRT1-ID16T		
		16 input points (PNP)	DRT1-ID16T-1		
		16 input points (NPN)	DRT1-ID16TA		
		16 input points (PNP)	DRT1-ID16TA-1		
		16 output points (NPN)	DRT1-OD16T		
		16 output points (PNP)	DRT1-OD16T-1		
		16 output points (NPN)	DRT1-OD16TA		
		16 output points (PNP)	DRT1-OD16TA-1		
		8 input points+8 output points (NPN)	DRT1-MD16T		
		8 input points+8 output points (PNP)	DRT1-MD16T-1		
		8 input points+8 output points (NPN)	DRT1-MD16TA		
8 input points+8 output points (PNP)	DRT1-MD16TA-1				

Name	Appearance	I/O points	Model number	Communications cable	Remarks
Remote I/O Terminals with Transistors and Connectors		32 input points (NPN)	DRT1-ID32ML	Normal square connectors	Compact (35 x 60 x 80 mm (W x D x H)) Connects to a Relay Terminal through a MIL cable. Does not need a separate power supply for internal circuits (uses the communications power supply).
		32 input points (PNP)	DRT1-ID32ML-1		
		32 output points (NPN)	DRT1-OD32ML		
		32 output points (PNP)	DRT1-OD32ML-1		
		16 input points+16 output points (NPN)	DRT1-MD32ML		
		16 input points+16 output points (PNP)	DRT1-MD32ML-1		
Remote Adapters		16 input points (NPN)	DRT1-ID16X		Compact (85 x 50 x 40 mm W x D x H) Connects to a G70D Relay terminal and can be used for a relay output or a power MOSFET relay output.
		16 input points (PNP)	DRT1-ID16X-1		
		16 output points (NPN)	DRT1-OD16X		
		16 output points (PNP)	DRT1-OD16X-1		
Sensor Terminals		16 input points (NPN)	DRT1-HD16S		Connected to photoelectric and proximity sensors with connectors
		8 input/8 output points (PNP)	DRT1-ND16S		
Temperature Input Terminals		4 thermocouple input points (4 words)	DRT1-TS04T		Thermocouple inputs Temperature resistance thermometer inputs
		4 temperature resistance thermometer input points (4 words)	DRT1-TS04P		
Analog Input Terminals		4 input points (4 words) or 2 input points (2 words)	DRT1-AD04		1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to +10 V, 0 to 20 mA, or 4 to 20 mA input (switchable) Resolution: 1/6,000
		4 input points (4 words)	DRT1-AD04H		
Analog Output Terminals		2 output points (2 words)	DRT1-DA02		1 to 5 V, 0 to 10 V, -10 to +10 V, 0 to 20 mA, or 4 to 20 mA output (switchable) Resolution: 1/6,000
CQM1 I/O Link Unit		16 internal inputs/ 16 internal outputs (between CQM1 and Master)	CQM1-DRT21		Remote I/O communications between PCs
CPM2A/ CPM1A I/O Link Unit		32 internal inputs/ 32 internal outputs (between CPM2A/ CPM1A and Master)	CPM1A-DRT21		Remote I/O communications between PCs

Waterproof and Environment-resistive Slaves

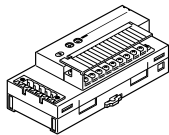
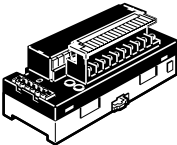
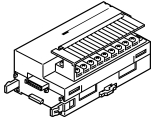
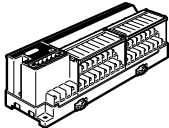
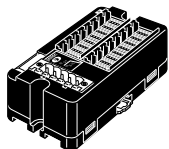
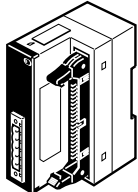
Name	Appearance	I/O points	Model number	Communications cable	Remarks
Waterproof Terminals		4 input points (NPN)	DRT1-ID04CL	Round connectors	Dust and drip-proof structure for environmental resistance (IP 67) XS2 Series connector system eliminates the need for tools for sensor, valve or other connections.
		4 input points (PNP)	DRT1-ID04CL-1		
		8 input points (NPN)	DRT1-ID08CL		
		8 input points (PNP)	DRT1-ID08CL-1		
		4 output points (NPN)	DRT1-OD04CL		
		4 output points (PNP)	DRT1-OD04CL-1		
		8 output points (NPN)	DRT1-OD08CL		
		8 output points (PNP)	DRT1-OD08CL-1		
Environment-resistive Terminals		8 input points (NPN)	DRT1-ID08C		Spatter, dust and drip-proof structure for environmental resistance (IP 66) XS2 Series connector system eliminates the need for tools for sensor, valve or other connections.
		8 output points (NPN)	DRT1-OD08C		
		16 input points (NPN)	DRT1-HD16C		
		16 input points (PNP)	DRT1-HD16C-1		
		16 output points (NPN)	DRT1-WD16C		
		16 output points (PNP)	DRT1-WD16C-1		
		8 input points+8 output points (NPN)	DRT1-MD16C		
		8 input points+8 output points (PNP)	DRT1-MD16C-1		
B7AC Interface Terminal		10 input points x 3	DRT1-B7AC		Splits 1 B7AC Unit into 3 branches. XS2 Series connector system eliminates the need for tools. Spatter, dust and drip-proof structure for environmental resistance (IP 66)

Special Slaves

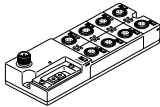
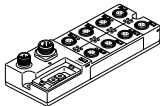
Name	Appearance	I/O points	Model number	Communications cable	Remarks
Programmable Slaves		512 inputs max. (32 words) 512 outputs max. (32 words)	CPM2C-S100C-DRT CPM2C-S110C-DRT	Normal square connectors	Controller that enables communications with CompoBus/S Master. Enables message communications using explicit messages.
C200H I/O Link Unit		512 inputs max. (32 words) 512 outputs max. (32 words)	C200HW-DRT21		Supports remote I/O and message communications between PCs. Max. I/O area: 512 input points and 512 output points Any I/O words can be allocated.
RS-232C Unit		16 inputs (1 word)	DRT1-232C2		Two RS-232C ports mounted Data sent and received by explicit message (151 bytes max.) Executes settings and control through explicit messages. Reflects RS-232C port status in the input.

● DRT2 Slaves

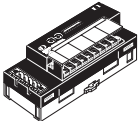
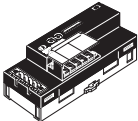
General-purpose Slaves

Name	Appearance	I/O points	Model number	Remarks
Remote I/O Terminals with Transistors		16 input points (NPN)	DRT2-ID16	Terminal block mounted/removed using screws.
		16 input points (PNP)	DRT2-ID16-1	
		16 output points (NPN)	DRT2-OD16	
		16 output points (PNP)	DRT2-OD16-1	
Remote I/O Terminal with Relay Outputs		16 output points	DRT2-ROS16	Relay outputs
Remote I/O Terminal Expansion Units with Transistors		16 input points (NPN)	XWT-ID16	Expansion Unit for increasing inputs or outputs of the Basic Unit.
		16 input points (PNP)	XWT-ID16-1	
		16 output points (NPN)	XWT-OD16	
		16 output points (PNP)	XWT-OD16-1	
		8 input points (NPN)	XWT-ID08	
		8 input points (PNP)	XWT-ID08-1	
		8 output points (NPN)	XWT-OD08	
		8 output points (PNP)	XWT-OD08-1	
Remote I/O Terminals with 3-tier Terminal Blocks and Transistors		16 input points (NPN)	DRT2-ID16TA	Wiring locations easy to find (wiring to the same terminal not required). Cannot be expanded with an Expansion Unit.
		16 input points (PNP)	DRT2-ID16TA-1	
		16 output points (NPN)	DRT2-OD16TA	
		16 output points (PNP)	DRT2-OD16TA-1	
		8 input points/8 output points (NPN)	DRT2-MD16TA	
		8 input points/8 output points (PNP)	DRT2-MD16TA-1	
Sensor Connector Terminals with Transistors		16 input points (NPN)	DRT2-ID16S	Use industry standard Sensor connectors.
		16 input points (PNP)	DRT2-ID16S-1	
MIL Connector Terminals with Transistors		32 input points (NPN)	DRT2-ID32ML	Connects to relay terminal using MIL cable.
		32 input points (PNP)	DRT2-ID32ML-1	
		32 output points (NPN)	DRT2-OD32ML	
		32 output points (PNP)	DRT2-OD32ML-1	
		16 input points/16 output points (NPN)	DRT2-MD32ML	
		16 input points/16 output points (PNP)	DRT2-MD32ML-1	

Environment-resistive Slaves

Name	Appearance	I/O points	Model number	Remarks
Environment-resistive Terminals		8 input points (NPN)	DRT2-ID08C	Waterproof, oil-proof, and spatter-proof construction (IP67).
		8 input points (PNP)	DRT2-ID08C-1	
		16 input points (NPN)	DRT2-HD16C	
		16 input points (PNP)	DRT2-HD16C-1	
		8 output points (NPN)	DRT2-OD08C	
		8 output points (PNP)	DRT2-OD08C-1	

Analog Slaves

Name	Appearance	I/O points	Model number	Remarks
Analog Terminals		4 input points (0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to 10 V, 0 to 20 mA, 4 to 20 mA)	DRT2-AD04	Terminal block mounted/removed using screws.
		2 output points (0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to 10 V, 0 to 20 mA, 4 to 20 mA)	DRT2-DA02	