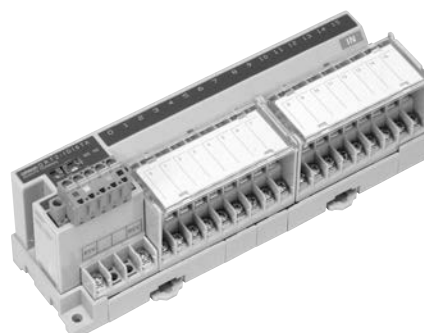


Transistor Remote I/O Terminals with 3-tier Terminal Blocks

DRT2-□D16TA(-1)

A Smart Slave with a 3-tier Terminal Block That Means Wiring Locations Are Easy to Understand with No Sharing of Terminals.

- Easy wiring with no sharing of terminals. Easy-to-understand wiring locations.
- No relay terminal block terminals required.
- Detachable cassette-type circuit sections.



Smart Slave Functions

Operation time monitor

Contact operation counter

Unit conduction time monitor

Total ON time monitor

Unit comments

Connected device comments

Network power supply voltage monitor

I/O power supply monitor function

Communications error log function

Input filter (input or I/O only)

Power-ON inrush current protection (input or I/O only)

Removable terminal block

Communications speed auto-detection

No need to wire Unit power supply

Last maintenance date

Ordering Information

Specifications			I/O connections	Rated internal circuit power supply voltage	I/O power supply voltage	Model
Inputs	NPN (+ common)	16 points	M3 screw terminals	Supplied from Basic Unit.	24 VDC	DRT2-ID16TA
	PNP (- common)					DRT2-ID16TA-1
Outputs	NPN (- common)					DRT2-OD16TA
	PNP (+ common)					DRT2-OD16TA-1
I/O	NPN (input: + common, output: - common)	Input: 8 points/ Output: 8 points				DRT2-MD16TA
	PNP (input: - common, output: + common)					DRT2-MD16TA-1

General Specifications

Communications power supply voltage	11 to 25 VDC (Supplied from communications connector)
Communications power supply current consumption	45 mA max. (24 VDC), 80 mA max. (11 VDC)
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power line)
Vibration resistance	10 to 60 Hz, 0.7-mm double amplitude, 60 to 150 Hz, 50 m/s ² for 80 min each in the X, Y, and Z directions
Shock resistance	150 m/s ² (3 times each in 6 directions on 3 axes)
Dielectric strength	500 VAC (between isolated circuits)
Insulation resistance	20 MΩ min. (between isolated circuits)
Ambient operating temperature	-10°C to 55°C
Ambient operating humidity	25% to 85% (with no condensation)
Ambient atmosphere	No corrosive gases
Ambient storage temperature	-25°C to 65°C
Mounting method	DIN 35 mm-track mounting, M4 screw mounting
Screw tightening torque	M2 (communications connector screws): 0.26 to 0.3 N·m M3 (screw terminals): 0.5 N·m M3 (screw terminals): 0.5 N·m M4 (unit mounting): 0.6 to 0.98 N·m
Weight	300 g max.

Input Specifications

● 16-point Inputs Terminals with Transistors

Item	Model	DRT2-ID16TA	DRT2-ID16TA-1
Internal I/O common		NPN	PNP
I/O points		16 inputs	
ON voltage		15 VDC min. (between input and V terminal)	15 VDC min. (between input and G terminal)
OFF voltage		5 VDC max. (between input and V terminal)	5 VDC max. (between input and G terminal)
OFF current		1.0 mA max.	
Input current		24 VDC: 6.0 mA max./point 17 VDC: 3.0 mA max./point	
ON delay time		1.5 ms max.	
OFF delay time		1.5 ms max.	
Number of circuits per common		8 per common	

● 8-point Inputs/8-point Outputs Terminals with Transistors

Item	Model	DRT2-MD16TA	DRT2-MD16TA-1
Internal I/O common		NPN	PNP
I/O points		8 inputs	
ON voltage		15 VDC min. (between input and V terminal)	15 VDC min. (between input and G terminal)
OFF voltage		5 VDC max. (between input and V terminal)	5 VDC max. (between input and G terminal)
OFF current		1.0 mA max.	
Input current		24 VDC: 6.0 mA max./point 17 VDC: 3.0 mA max./point	
ON delay time		1.5 ms max.	
OFF delay time		1.5 ms max.	
Number of circuits per common		8 per common	

Output Specifications

● 16-point Outputs Terminals with Transistors

Item	Model	DRT2-OD16TA	DRT2-OD16TA-1
Internal I/O common		NPN	PNP
I/O points		16 outputs	
Rated output current		0.5 A/point	
Residual voltage		1.2 VDC max. (0.5 A DC between output and G terminal)	1.2 VDC max. (0.5 A DC between output and V terminal)
Leakage current		0.1 mA max.	
ON delay time		0.5 ms max.	
OFF delay time		1.5 ms max.	
Number of circuits per common		8 per common	

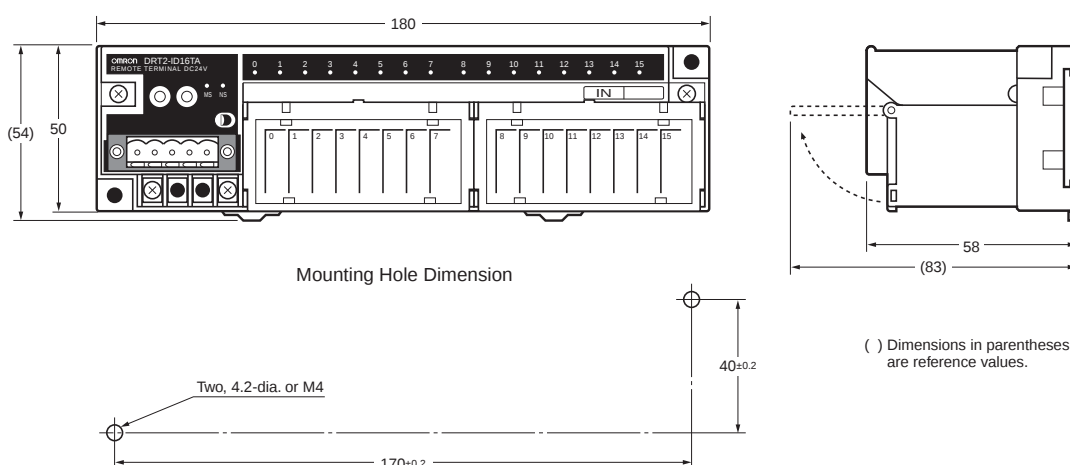
● 8-point Inputs/8-point Outputs Terminals with Transistors

Item	Model	DRT2-MD16TA	DRT2-MD16TA-1
Internal I/O common		NPN	PNP
I/O points		8 outputs	
Rated output current		0.5 A/point	
Residual voltage		1.2 VDC max. (0.5 A DC between output and G terminal)	1.2 VDC max. (0.5 A DC between output and V terminal)
Leakage current		0.1 mA max.	
ON delay time		0.5 ms max.	
OFF delay time		1.5 ms max.	
Number of circuits per common		8 per common	

Dimensions

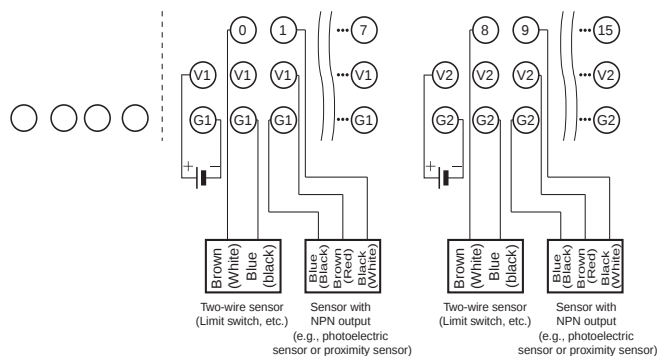
(Unit: mm)

DRT2-ID16TA(-1)
DRT2-OD16TA(-1)
DRT2-MD16TA(-1)

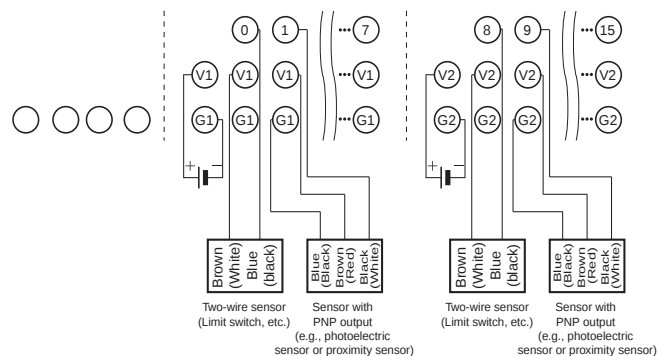


Wiring Diagrams

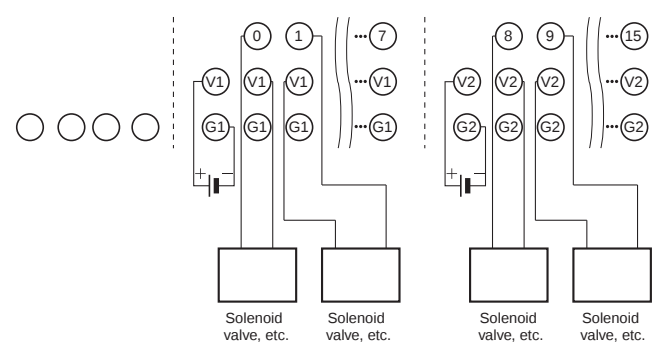
DRT2-ID16TA (NPN)



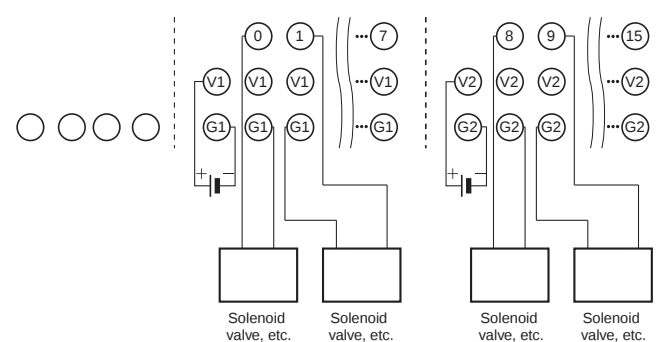
DRT2-ID16TA-1 (PNP)



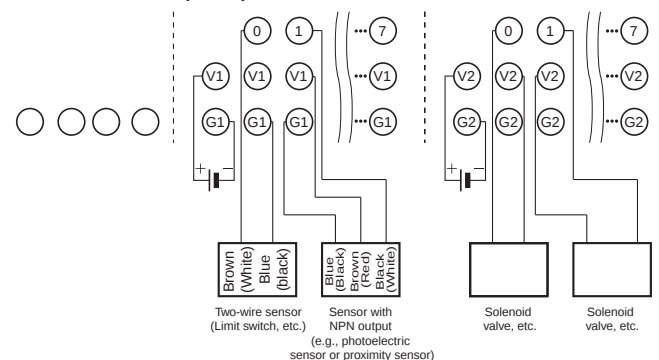
DRT2-OD16TA (NPN)



DRT2-OD16TA-1 (PNP)



DRT2-MD16TA (NPN)



DRT2-MD16TA-1 (PNP)

