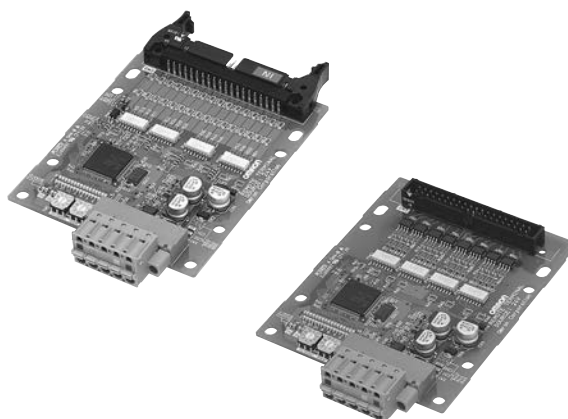


Board Terminals with MIL Connector

DRT2-□D32B(-1)/□D32BV(-1)**First Board-type Terminals for Smart Slaves!**

- Easily modified to handle an array of I/O interfaces and eliminates much on-site wiring.
- User boards attach easily to the DRT2-□D32BV(-1) using screws.

**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)	
Communications speed auto-detection	No need to wire Unit power supply	Last maintenance date

Ordering Information**●Parallel Mounting MIL Connector**

Specifications			I/O connections	Rated internal circuit power supply voltage	Rated I/O power supply voltage	Model
Inputs	NPN (+ common)	32 inputs	MIL connector	Supplied from communications connector.	24 VDC	DRT2-ID32B
	PNP (- common)					DRT2-ID32B-1
Outputs	NPN (- common)	32 outputs				DRT2-OD32B
	PNP (+ common)					DRT2-OD32B-1
I/O	NPN (input: + common, output: - common)	16 inputs/ 16 outputs				DRT2-MD32B
	PNP (input: - common, output: + common)					DRT2-MD32B-1

●Perpendicular Mounting MIL Connector

Specifications			I/O connections	Rated internal circuit power supply voltage	Rated I/O power supply voltage	Model
Inputs	NPN (+ common)	32 inputs	MIL connector	Supplied from communications connector.	24 VDC	DRT2-ID32BV
	PNP (- common)					DRT2-ID32BV-1
Outputs	NPN (- common)	32 outputs				DRT2-OD32BV
	PNP (+ common)					DRT2-OD32BV-1
I/O	NPN (input: + common, output: - common)	16 inputs/ 16 outputs				DRT2-MD32BV
	PNP (input: - common, output: + common)					DRT2-MD32BV-1

General Specifications

Communications power supply voltage	11 to 25 VDC (Supplied from the communications connector.)
Communications power supply current consumption	DRT2-ID32B(-1) : 45 mA max. (24 VDC), 100 mA max. (11 VDC) DRT2-OD32B(-1) : 55 mA max. (24 VDC), 120 mA max. (11 VDC) DRT2-MD32B(-1) : 50 mA max. (24 VDC), 110 mA max. (11 VDC) DRT2-ID32BV(-1) : 45 mA max. (24 VDC), 100 mA max. (11 VDC) DRT2-OD32BV(-1) : 55 mA max. (24 VDC), 120 mA max. (11 VDC) DRT2-MD32BV(-1) : 50 mA max. (24 VDC), 110 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	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°C to 55°C
Ambient operating humidity	25% to 85% (with no condensation)
Ambient operating atmosphere	No corrosive gases
Ambient storage temperature	-25°C to 65°C
Mounting method	M4 screw mounting
Weight	50 g max.

Input Specifications

● 32-point Inputs Terminals with Connectors

Item	Model	DRT2-ID32B DRT2-ID32BV	DRT2-ID32B-1 DRT2-ID32BV-1
Internal I/O common		NPN	PNP
I/O points		32 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)	5 VDC max. (between each input terminal and G)
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		32 per common	

● 16-point Inputs/16-point Outputs Terminals with Connectors

Item	Model	DRT2-MD32B DRT2-MD32BV	DRT2-MD32B-1 DRT2-MD32BV-1
Internal I/O common	NPN	PNP	
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)	5 VDC max. (between each input terminal and G)	
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 simultaneously inputs	16		
Number of circuits per common	16 per common		

Output Specifications

● 32-point Outputs Terminals with Connectors

Item	Model	DRT2-OD32B DRT2-OD32BV	DRT2-OD32B-1 DRT2-OD32BV-1
Internal I/O common		NPN	PNP
I/O points		32 outputs	
Rated output current		0.3 A/point, 4 A/common *	
Residual voltage		1.2 VDC max. (0.3 A DC between output and G terminal)	1.2 VDC max. (0.3 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		32 per common	

* The maximum total load current is 4 A.
The maximum current for the V and G terminals is 1 A per terminal. Do not exceed these values.

● 16-point Inputs/16-point Outputs Terminals with Connectors

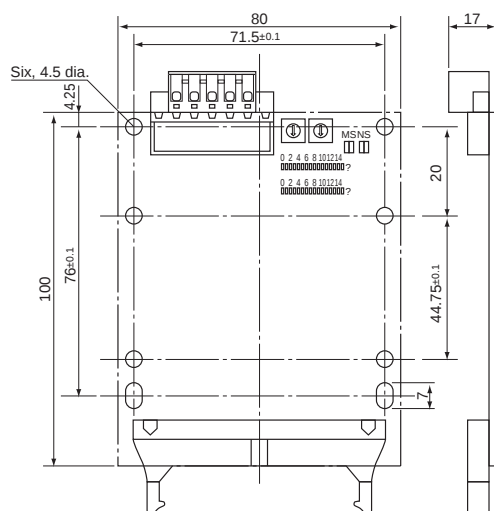
Item	Model	DRT2-MD32B DRT2-MD32BV	DRT2-MD32B-1 DRT2-MD32BV-1
Internal I/O common		NPN	PNP
I/O points		16 outputs	
Rated output current		0.3 A/point, 2 A/common *	
Residual voltage		1.2 VDC max. (0.3 A DC between output and G terminal)	1.2 VDC max. (0.3 A DC between output and V terminal)
Leakage current		0.1 mA max.	
ON delay time		0.5 ms max.	
OFF delay time		1.5 ms max.	
Number of circuits per common		16 per common	

* The maximum total load current is 2 A.
The maximum current for the V and G terminals is 1 A per terminal. Do not exceed these values.

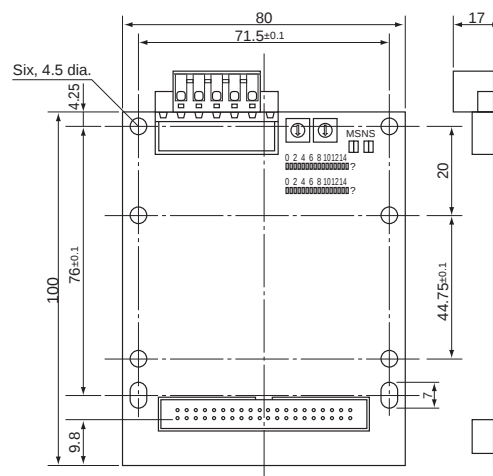
Dimensions

(Unit: mm)

DRT2-ID32B(-1)
DRT2-OD32B(-1)
DRT2-MD32B(-1)

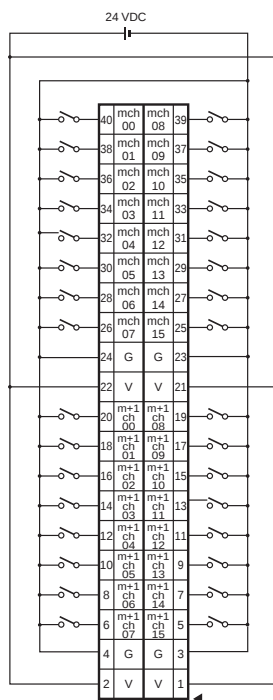


DRT2-ID32BV(-1)
DRT2-OD32BV(-1)
DRT2-MD32BV(-1)

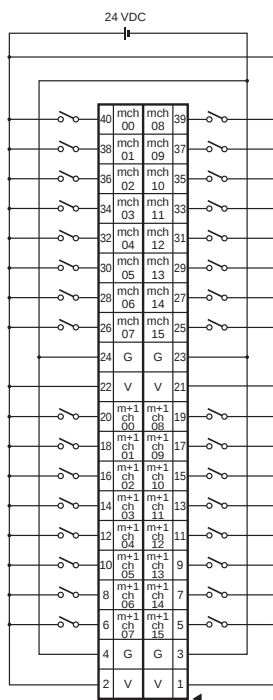


Wiring Diagrams

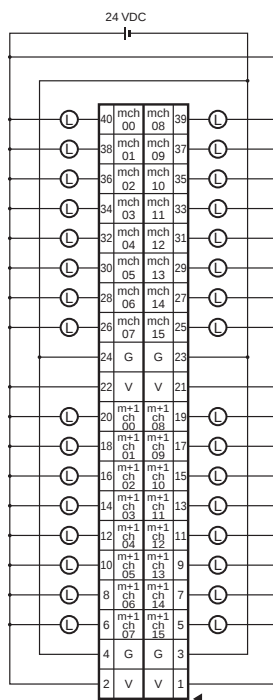
DRT2-ID32B
DRT2-ID32BV
(NPN)



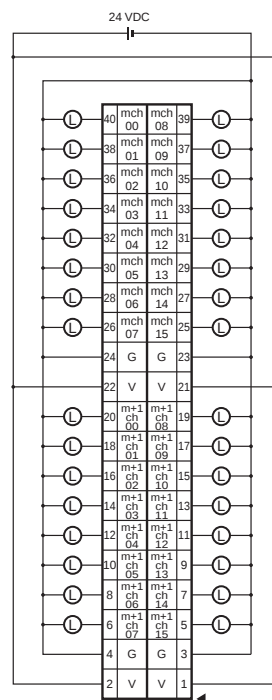
DRT2-ID32B-1
DRT2-ID32BV-1
(PNP)



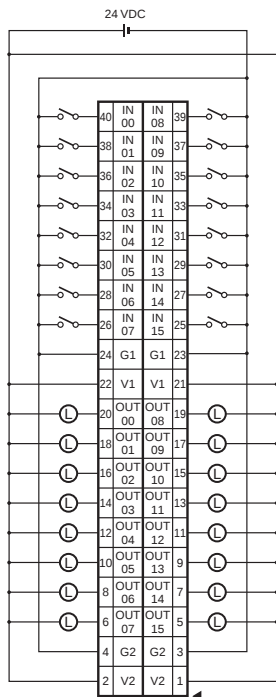
DRT2-OD32B
DRT2-OD32BV
(NPN)



DRT2-OD32B-1
DRT2-OD32BV-1
(PNP)



DRT2-MD32B
DRT2-MD32BV
(NPN)



DRT2-MD32B-1
DRT2-MD32BV-1
(PNP)

