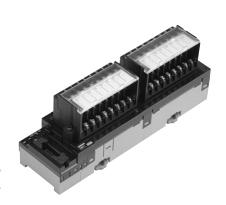
Digital I/O Slave Units with Screw Terminal Blocks (3-tier Terminal Block)

$\overline{\mathsf{CRT1}}$ - $\Box \mathsf{D08TA}(-1)$ / $\Box \mathsf{D16TA}(-1)$ / $\Box \mathsf{D08TAH}(-1)$ / $\Box \mathsf{D16TAH}(-1)$

With the relay terminal blocks, doubling up wires on terminals is not necessary!
Smart Slave Units with Easy-to-understand Wiring Locations with One Common for Every Point.

Doubling up wires on terminals is unnecessary and wiring locations are easy to understand with these Smart Slaves with 3-tier Terminal Blocks.

- Easy-to-understand wiring. No doubling up of wires. Easy-to-understand wiring locations.
- Simplify startup with the communications power supply monitor (Smart function).
- Collect various preventive maintenance data required to improve productivity, such as information on equipment deterioration due to aging and equipment operating time data (Smart function).
- The communications baud rate is set without using switches and addresses are set using rotary switches, so setting errors are reduced.
- Communications connector and removable I/O terminal block enable maintenance without disconnecting wiring.



Ordering Information

Name		Specifications				
	Innuto	8 inputs	NPN		CRT1-ID08TA	
	Inputs	o inputs	PNP		CRT1-ID08TA-1	
	Outputs	8 outputs	NPN		CRT1-OD08TA	
	Outputs	o outputs	PNP		CRT1-OD08TA-1	
	Inputs	16 inputs	NPN	Without Short-circuit and	CRT1-ID16TA	
	iliputs	10 inputs	PNP	Disconnected Line Detection	CRT1-ID16TA-1	
	Outputs	16 outputs	NPN		CRT1-OD16TA	
	Outputs	16 outputs	PNP		CRT1-OD16TA-1	
Three-tier Screw Terminal Block	Inputs/	8 inputs/	NPN		CRT1-MD16TA	
	Outputs	8 outputs	PNP		CRT1-MD16TA-1	
	Inputs	8 inputs	NPN		CRT1-ID08TAH	
	inputs	o inputs	PNP		CRT1-ID08TAH-1	
	Outputs	8 outputs	NPN		CRT1-OD08TAH	
	Outputs	o outputs	PNP		CRT1-OD08TAH-1	
	Inputs	16 inputs	NPN	With Short-circuit and Disconnected	CRT1-ID16TAH	
	inputs	16 inputs	PNP	Line Detection	CRT1-ID16TAH-1	
	Outputs	16 outputs	NPN		CRT1-OD16TAH	
	Outputs	16 outputs	PNP	-	CRT1-OD16TAH-1	
	Inputs/	Inputs/ 8 inputs/ Outputs 8 outputs	NPN		CRT1-MD16TAH	
			PNP		CRT1-MD16TAH-1	

Performance Specifications

For Basic Performance Specifications of Slave Units, refer to page 26.

Input Section Specifications

● Eight-point Input Units (3-tier Terminal Block)

Item	Specification				
Model	CRT1-ID08TA	CRT1-ID08TA-1	CRT1-ID08TAH-1	CRT1-ID08TAH-1	
I/O capacity	8 inputs				
Internal I/O common	NPN	PNP	NPN	PNP	
ON voltage	15 VDC min. (between each input terminal and the V terminal)	15 VDC min. (between each input terminal and the G terminal)	10.5 VDC min. (between each input terminal and the V terminal)	10.5 VDC min. (between each input terminal and the G terminal)	
OFF voltage	5 VDC max. (between each input terminal and the V terminal)	5 VDC max. (between each input terminal and the G terminal)			
OFF current	1.0 mA max.	1	l	1	
Input current	At 24 VDC: 6.0 mA max./input At 17 VDC: 3.0 mA min./input				
ON delay	1.5 ms max.				
OFF delay	1.5 ms max.				
Power supply short-circuit detection			Operates at 50 mA/point min.		
Disconnection detection			Operates at 0.3 mA/point max.		
Number of circuits per common	8 inputs/common				
Isolation method	Photocoupler				
Input indicator	LED (yellow)				
Installation	DIN Track				
Power supply type	Multi-power supply				
Current supplied to input devices	100 mA/point		50 mA/point		
Communications power supply current consumption	30 mA max. for 24-VDC power supply voltage 50 mA max. for 14-VDC power supply voltage		35 mA max. for 24-VDC power supply voltage 60 mA max. for 14-VDC power supply voltage		
I/O power supply current consumption	5 mA max. for 24-VDC power supply voltage 25 mA max. for 24-VDC power supply voltage			supply voltage	
Weight	190 g max. 200 g max.				

● Sixteen-point Input Units (3-tier Terminal Block)

Item	Specification				
Model	CRT1-ID16TA	CRT1-ID16TA-1	CRT1-ID16TAH	CRT1-ID16TAH-1	
I/O capacity	16 inputs				
Internal I/O common	NPN	PNP	NPN	PNP	
ON voltage	15 VDC min. (between each input terminal and the V terminal)	15 VDC min. (between each input terminal and the G terminal)	10.5 VDC min. (between each input terminal and the V terminal)	10.5 VDC min. (between each input terminal and the G terminal)	
OFF voltage	5 VDC max. (between each input terminal and the V terminal)	5 VDC max. (between each input terminal and the G terminal)			
OFF current	1.0 mA max.				
Input current	At 24 VDC: 6.0 mA max./input At 17 VDC: 3.0 mA min./input				
ON delay	1.5 ms max.				
OFF delay	1.5 ms max.				
Power supply short-circuit detection			Operates at 50 mA/point min.		
Disconnection detection	Operates at 0.3 mA/point max.				
Number of circuits per common	8 inputs/common				
Isolation method	Photocoupler				
Input indicator	LED (yellow)				
Installation	DIN Track				
Power supply type	Multi-power supply				
Communications power supply current consumption	40 mA max. for 24-VDC power supply voltage 55 mA max. for 14-VDC power supply voltage		40 mA max. for 24-VDC power supply voltage 70 mA max. for 14-VDC power supply voltage		
I/O power supply current consumption	5 mA max. for 24-VDC power supply voltage 25 mA max. for 24-VDC power supply voltage			supply voltage	
Weight	330 g max. 340 g max.				

Output Section Specifications

● Eight-point Output Units (3-tier Terminal Block)

Item	Specification				
Model	CRT1-OD08TA CRT1-OD08TA-1		CRT1-OD08TAH	CRT1-OD08TAH-1	
I/O capacity	8 outputs				
Internal I/O common	NPN	PNP	NPN	PNP	
Rated output current	0.5 A/output, 2 A/common				
Residual voltage	1.2 V max. (0.5 A DC, between each output terminal and the G terminal)	1.2 V max. (0.5 A DC, between each output terminal and the V terminal)	1.2 V max. (0.5 A DC, between each output terminal and the G terminal)	1.2 V max. (0.5 A DC, between each output terminal and the V terminal)	
Leakage current	0.1 mA max.	1			
ON delay	0.5 ms max.				
OFF delay	1.5 ms max.				
Load short-circuit detection		Supported.			
Disconnection detection	Operates at 3 mA/point max. (Does not operate at over 3 mA.)			.)	
Number of circuits per common	8 outputs/common				
Isolation method	Photocoupler				
Output indicators	LED (yellow)				
Installation	DIN Track				
Power supply type	Multi-power supply				
Current supplied to output devices	100 mA/point	100 mA/point			
Communications power supply current consumption	35 mA max. for 24-VDC power supply voltage 55 mA max. for 14-VDC power supply voltage				
I/O power supply current consumption	15 mA max. for 24-VDC power supply voltage 15 mA max. for 24-VDC power supply voltage 35 mA max. for 24-VDC power supply voltage			35 mA max. for 24-VDC power supply voltage	
Output handling for communications errors	Select either hold or clear from CX-Integrator.				
Weight	190 g max.				

● Sixteen-point Output Unit (3-tier Terminal Block)

Item	Specification				
Model	CRT1-OD16TA	CRT1-OD16TA-1	CRT1-OD16TAH	CRT1-OD16TAH-1	
I/O capacity	16 outputs				
Internal I/O common	NPN PNP		NPN	PNP	
Rated output current	0.5 A/output, 2 A/common	0.5 A/output, 2 A/common			
Residual voltage	1.2 V max. (0.5 A DC, between each output terminal and the G terminal)	1.2 V max. (0.5 A DC, between each output terminal and the V terminal)	1.2 V max. (0.5 A DC, between each output terminal and the G terminal)	1.2 V max. (0.5 A DC, between each output terminal and the V terminal)	
Leakage current	0.1 mA max.				
ON delay	0.5 ms max.				
OFF delay	1.5 ms max.				
Number of circuits per common	8 outputs/common				
Load short-circuit detection			Supported.		
Disconnection detection			Operates at 3 mA/point max. (Does not operate at over 3 mA.)		
Isolation method	Photocoupler				
Output indicators	LED (yellow)				
Installation	DIN Track				
Power supply type	Multi-power supply				
Communications power supply current consumption	45 mA max. for 24-VDC power supply voltage 65 mA max. for 14-VDC power supply voltage 70 mA max. for 14-VDC power supply voltage				
I/O power supply current consumption	15 mA max. for 24-VDC power supply voltage			35 mA max. for 24-VDC power supply voltage	
Output handling for communications errors	Select either hold or clear from CX-Integrator.				
Weight	330 g max.				

Input and Output Section Specifications

● 8-point Input and 8-point Output Units (3-tier Terminal Block) Common Specifications

Item	Specification			
Model	CRT1-MD16TA	CRT1-MD16TA-1	CRT1-MD16TAH	CRT1-MD16TAH-1
Installation	DIN Track			
Communications power supply current consumption	40 mA max. for 24-VDC power supply voltage 60 mA max. for 14-VDC power supply voltage		40 mA max. for 24-VDC power supply voltage 70 mA max. for 14-VDC power supply voltage	
Weight	330 g max.		340 g max.	

Input Section Specifications

Item	Specification					
Model	CRT1-MD16TA	CRT1-MD16TA-1	CRT1-MD16TAH	CRT1-MD16TAH-1		
I/O capacity	8 inputs		ı	ı		
Internal I/O common	NPN	PNP	NPN	PNP		
ON voltage	15 VDC min. (between each input terminal and the V terminal)	15 VDC min. (between each input terminal and the G terminal)	10.5 VDC min. (between each input terminal and the V terminal)	10.5 VDC min. (between each input terminal and the G terminal)		
OFF voltage	5 VDC max. (between each input terminal and the V terminal)	5 VDC max. (between each input terminal and the G terminal)				
OFF current	1.0 mA max.	1.0 mA max.				
Input current	At 24 VDC: 6.0 mA max./input At 17 VDC: 3.0 mA min./input					
ON delay	1.5 ms max.					
OFF delay	1.5 ms max.					
Power supply short-circuit detection		Operates at 50 mA/point min.				
Disconnection detection		Operates at 0.3 mA/point max.				
Number of circuits per common	8 inputs/common	8 inputs/common				
Isolation method	Photocoupler					
Input indicator	LED (yellow)					
Power supply type	Multi-power supply					
I/O power supply current consumption	5 mA max. for 24-VDC power supply voltage 25 mA max. for 24-VDC power supply voltage			supply voltage		

Output Section Specifications

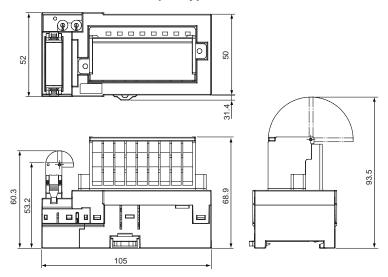
Item	Specification					
Model	CRT1-MD16TA	CRT1-MD16TA-1	CRT1-MD16TAH	CRT1-MD16TAH-1		
I/O capacity	8 outputs	8 outputs				
Internal I/O common	NPN	PNP	NPN	PNP		
Rated output current	0.5 A/output, 2 A/common					
Residual voltage	1.2 V max. (0.5 A DC, between each output terminal and the G terminal)	1.2 V max. (0.5 A DC, between each output terminal and the V terminal)	1.2 V max. (0.5 A DC, between each output terminal and the G terminal)	1.2 V max. (0.5 A DC, between each output terminal and the V terminal)		
Leakage current	0.1 mA max.	0.1 mA max.				
ON delay	0.5 ms max.					
OFF delay	1.5 ms max.					
Load short-circuit detection	Supported.					
Disconnection detection			Operates at 3 mA/point max. (Does not operate at over 3 mA.)			
Number of circuits per common	8 outputs/common					
Isolation method	Photocoupler	Photocoupler				
Output indicators	LED (yellow)					
I/O power supply current consumption	15 mA max. for 24-VDC power supply voltage 35 mA max. for 24-VDC supply voltage			35 mA max. for 24-VDC power supply voltage		
Output handling for communications errors	Select either hold or clear from CX-Integrator.					



Dimensions (Unit: mm)

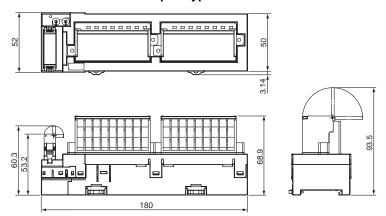
CRT1-ID08TA (-1) CRT1-OD08TA(-1)

When a DCN4-TB4 Open Type Connectors Is Mounted



CRT1-ID16TA(-1) CRT1-OD16TA(-1 CRT1-MD16TA(-1)

When a DCN4-TB4 Open Type Connectors Is Mounted



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