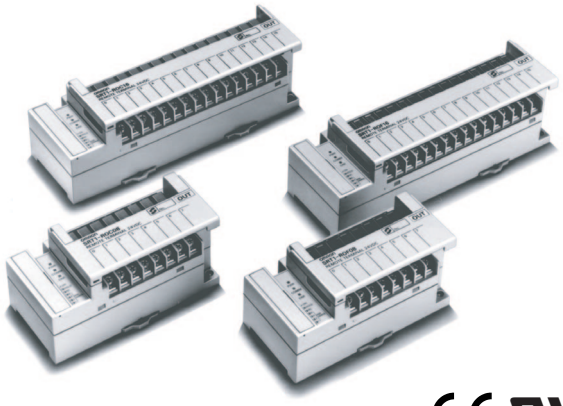
Relay-mounted Remote I/O Terminals
SRT2-R

Ultra-miniature 8-point and 16-point Relay-mounted Terminals

- Ultra-compact
  (8-point models: 101 x 51 x 51 mm (W x H x D);
  16-point models: 156 x 51 x 51 mm (W x H x D))
- Power MOS FET Relay and Relay models.
- DIN track mounting and screw mounting are available.



Ordering Information

Classification	I/O points	Rated voltage	Relay coil rating	Model	Applicable relay
Relay output	8 points	24 VDC	24 VDC	SRT2-ROC08	G6D-1A
	16 points			SRT2-ROC16	
Power MOS FET relay output	8 points			SRT2-ROF08	G3DZ-2R6PL
	16 points			SRT2-ROF16	

Note: For details about connections to the Master Unit, refer to page 2.

Specifications

■ Ratings

Relay Output

Item	SRT2-ROC08, SRT2-ROC16
Applicable relay	G6D-1A (one for each output point)
Rated load	3 A at 250 VAC, 3 A at 30 VDC (resistive load)
Rated carry current	3 A (see note 1)
Max. contact voltage	250 VAC, 30 VDC
Max. contact current	3 A
Max. switching capacity	730 VA (AC), 90 W (DC)
Min. permissible load (see note 2)	10 mA at 5 VDC
Life expectancy	Electrical: 100,000 operations min. (rated load, at 1,800 operations/h) Mechanical: 20,000,000 operations min. (at 18,000 operations/h)

Note: 1. The maximum permissible current of COM0 to COM7 is 3 A.

2. This value fulfills the P reference value of opening/closing at a rate of 120 times per min (ambient operating environment and determination criteria according to JIS C5442).

Power MOS FET Relay Output

Item	SRT2-ROF08, SRT2-ROF16
Applicable relay	G3DZ-2R6PL (one for each output point)
Load voltage	3 to 264 VAC, 3 to 125 VDC
Load current	100 μA to 0.3 A
Inrush current	6 A (10 ms)

■ Characteristics

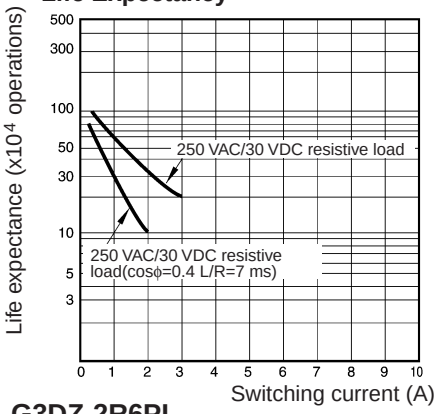
Power supply voltage	24 VDC $^{+10\%}/_{-15\%}$
Current consumption (see note)	350 mA max. at 24 VDC
Connection method	Multi-drop method and T-branch method
Connecting Units	8-point Units:16 per Master 16-point Units:8 per Master
Dielectric strength	2,000 VAC for 1 min (1-mA sensing current) between all output terminals and power supply, between communication terminals, and between contacts of different polarities 500 VAC for 1 min (1-mA sensing current) between all output terminals and power supply, between communication terminals, and between all power supply terminals and communications terminals
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power lines)
Vibration resistance	10 to 55 Hz, 0.75-mm double amplitude
Shock resistance	Malfunction: 100 m/s^2 Destruction: 300 m/s^2
Mounting strength	No damage when 50 N pull load was applied for 10 s in all directions
Terminal strength	No damage when 50 N pull load was applied for 10 s
Screw tightening torque	0.6 to 1.18 N • m
Ambient temperature	Operating: 0°C to 55°C (with no icing or condensation) Storage: –20°C to 65°C (with no icing or condensation)
Ambient humidity	Operating: 35% to 85%
Weight	8-point models: 145 g max., 16-point models: 240 g max.
Approved standards	UL 508, CSA C22.2 No. 14

Note: The above current consumption is a value with all the points turned ON including the current consumption of the G6D coil for the Remote Output Terminal, and the G3DZ's input current.

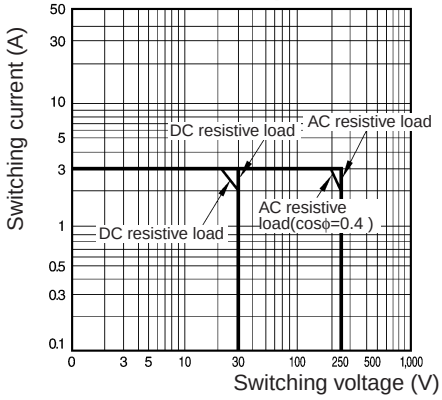
Reference Data

G6D-1A (24 VDC)

Life Expectancy



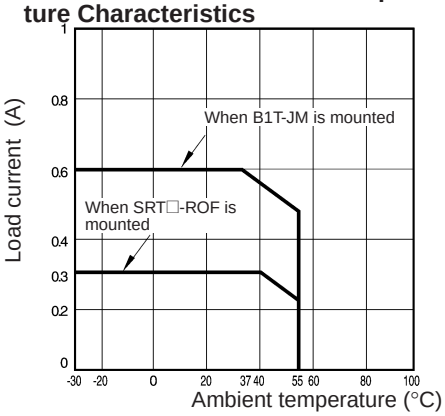
Max. Switching Capacity



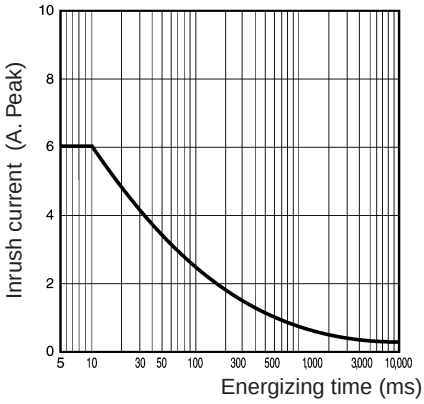
Note: These graphs show the characteristics for when the SRT2-ROC□□ or B1T-JR model is mounted.

G3DZ-2R6PL

Load Current vs. Ambient Temperature Characteristics



Inrush Current Resistivity

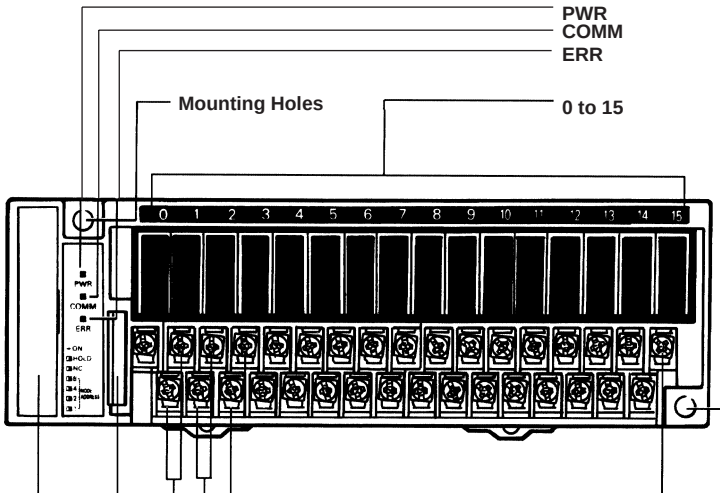


Non-repetitive: (Keep the inrush current to half the rated value if it occurs repetitively.)

Note: The above graph shows the charac teristics for when the SRT2-ROF□□ or B1T-JM model is mounted.

Nomenclature

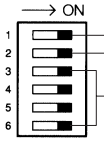
SRT2-ROC16
SRT2-ROF16



Indicators

Indicator	Display	Color	Meaning
PWR	Lit	Green	The communications power supply is ON.
	Not lit		The communications power supply is OFF.
COMM	Lit	Yellow	Normal communications
	Not lit		A communications error has occurred or the Unit is in standby status.
ERR	Lit	Red	A communications error has occurred.
	Not lit		Normal communications or the Unit is in standby status.
0 to 15 (see note)	Lit	Yellow	The corresponding I/O signal is ON.
	Not lit		The corresponding I/O signal is OFF.

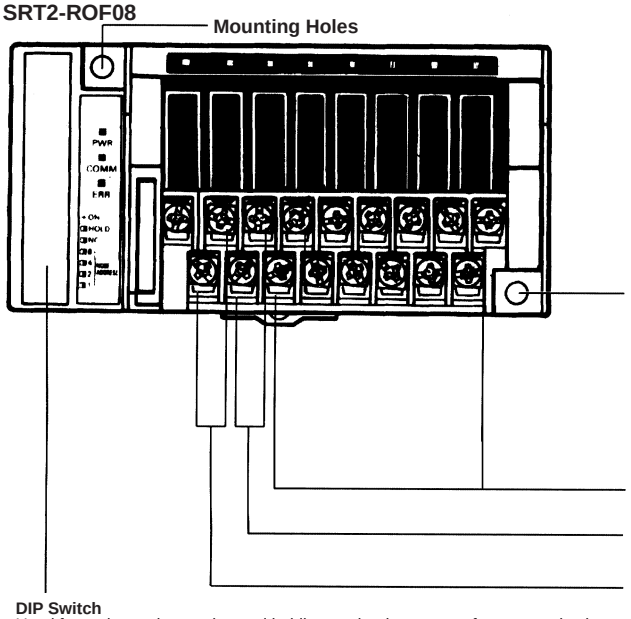
Note: The SRT2-RO□08 does not have indicators 8 to 15.



Output HOLD/CLEAR setting (Output model only)
Baud rate setting
Node address setting

Note: Always turn off the Unit before changing DIP switch settings.

SRT2-ROC08
SRT2-ROF08



Output HOLD/CLEAR Mode

Mode	Pin 1	Setting
HOLD	ON	Output status is maintained when a communications error occurs.
CLEAR	OFF	Output status is cleared when a communications error occurs.

Note: 1. Pin 1 is factory-set to OFF.
2. This function is available to the Output Terminal only.

Node Number Settings

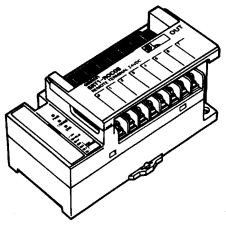
Node number	Pin 3	Pin 4	Pin 5	Pin 6
	8	4	2	1
0	OFF	OFF	OFF	OFF
1	OFF	OFF	OFF	ON
2	OFF	OFF	ON	OFF
3	OFF	OFF	ON	ON
4	OFF	ON	OFF	OFF
5	OFF	ON	OFF	ON
6	OFF	ON	ON	OFF
7	OFF	ON	ON	ON
8	ON	OFF	OFF	OFF
9	ON	OFF	OFF	ON
10	ON	OFF	ON	OFF
11	ON	OFF	ON	ON
12	ON	ON	OFF	OFF
13	ON	ON	OFF	ON
14	ON	ON	ON	OFF
15	ON	ON	ON	ON

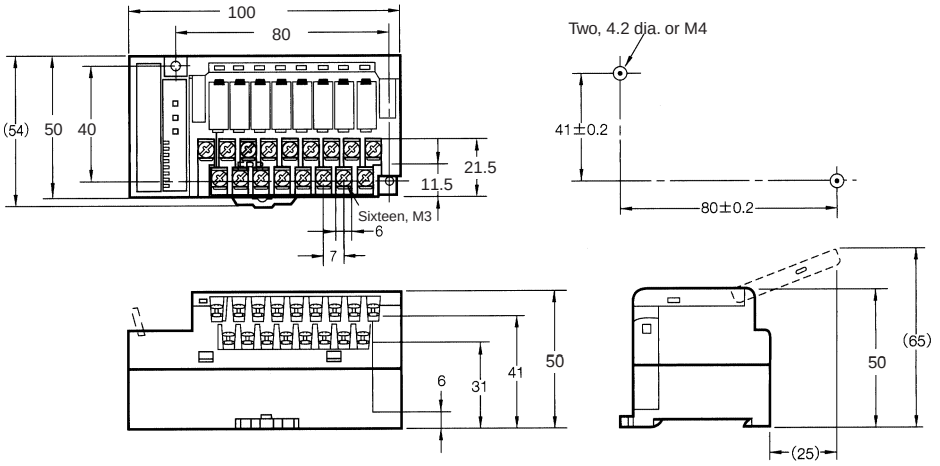
Note: 1. The node number is factory-set to 0.
2. For node number setting, refer to the *CompoBus/S Operation Manual (W266-E1).*

Dimensions

Note: All units are in millimeters unless otherwise indicated.

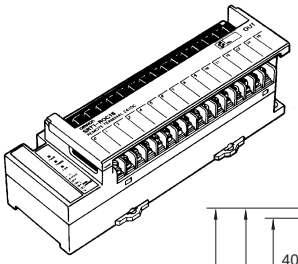
SRT2-ROC08
SRT2-ROF08

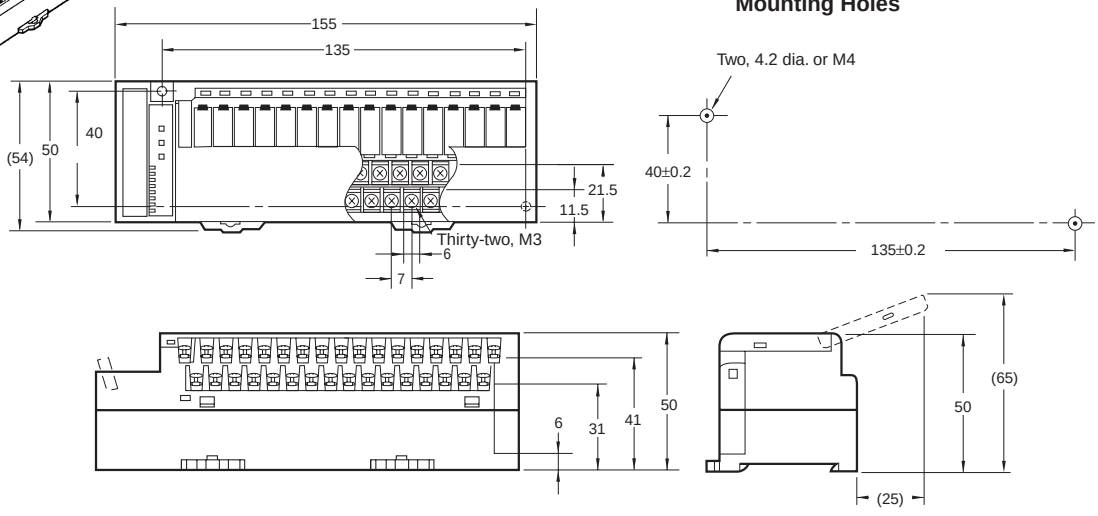




Mounting Holes

SRT2-ROC16
SRT2-ROF16



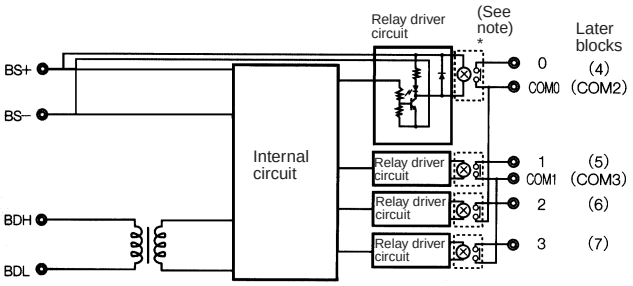


Mounting Holes

Installation

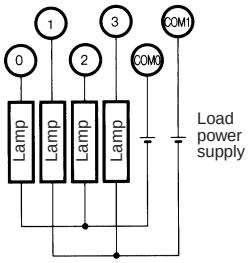
■ Internal Circuit Configuration

SRT2-ROC08
SRT2-ROC16



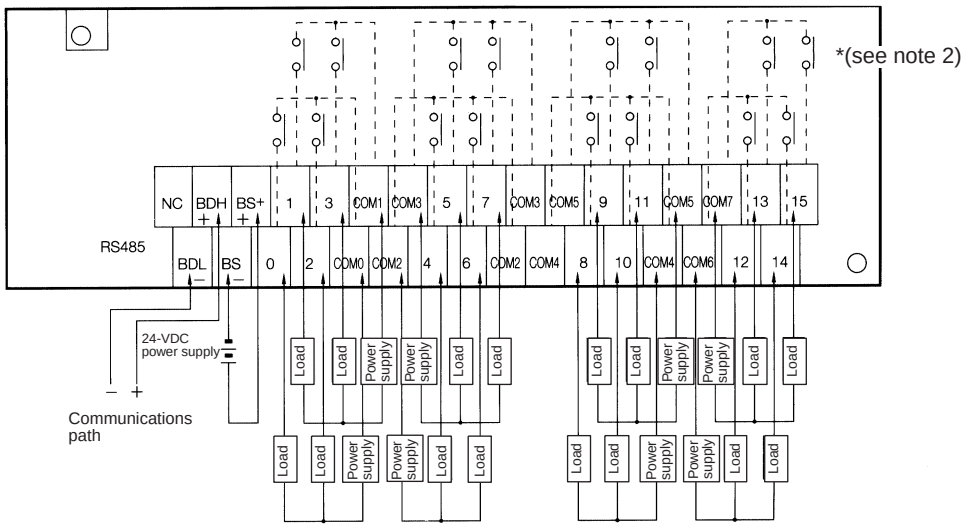
Note: The G3DZ-2R6PL Power MOS FET Relay is inserted into this portion of the SRT2-ROF08 and SRT2-ROF16.

■ External Connections



■ Terminal Arrangement and I/O Device Connection Example

Output
SRT2-ROC16
SRT2-ROF16



Note: 1. Dotted lines indicate internal connections.
SRT2-ROC08 and SRT2-ROF08 have the 0 to 7 and COM0 to COM3 terminals only.
2. The above is a connection example of the SRT2-ROC16 with G6D Relays mounted.
G3DZ Power MOS FET Relays are mounted to the SRT2-ROF08 and SRT2-ROF16.

Precautions

Refer to the *CompoBus/S Operation Manual (W266-E1)* before using the Unit.