

# Transistor Remote I/O Terminals with 3-tier Terminal Block

## SRT2-□D16T(-1)

**Models with 3-tier Terminals (16 Points)  
Added to the Remote I/O Terminal Series.**

**Six Models are Available Depending on the  
NPN or PNP Configuration, Input Points, I/O  
Points, or Output Points.**

- Incorporates easy-to-wire terminals each connecting to a single wire.
- Reduces designing and wiring effort.
- Incorporates a removable circuit block of cassette construction.



## Ordering Information

I/O classification	Internal I/O circuit common	I/O points	I/O connection method	Model
Digital input	NPN (+ common)	16	M3 terminal block	SRT2-ID16T
	PNP (- common)			SRT2-ID16T-1
Digital I/O	NPN (- common)			SRT2-MD16T
	PNP (+ common)			SRT2-MD16T-1
Digital output	NPN (- common)			SRT2-OD16T
	PNP (+ common)			SRT2-OD16T-1

## Specifications

### ■ Ratings

#### Inputs

Input current	6 mA max./point at 24 V and 3 mA min./point at 17 V
ON delay time	1.5 ms max.
OFF delay time	1.5 ms max.
ON voltage	NPN: 15 VDC min. between V terminals and each input terminal PNP: 15 VDC min. between G terminals and each input terminal
OFF voltage	NPN: 5 VDC max. between V terminals and each input terminal PNP: 5 VDC max. between G terminals and each input terminal
OFF current	1 mA max.
Insulation method	Photocoupler

#### Outputs

Rated output current	0.5 A max./point
Residual voltage	1.2 V max.
ON delay time	0.5 ms max.
OFF delay time	1.0 ms max.
Leakage current	0.1 mA max.
Insulation method	Photocoupler

## Unit Descriptions

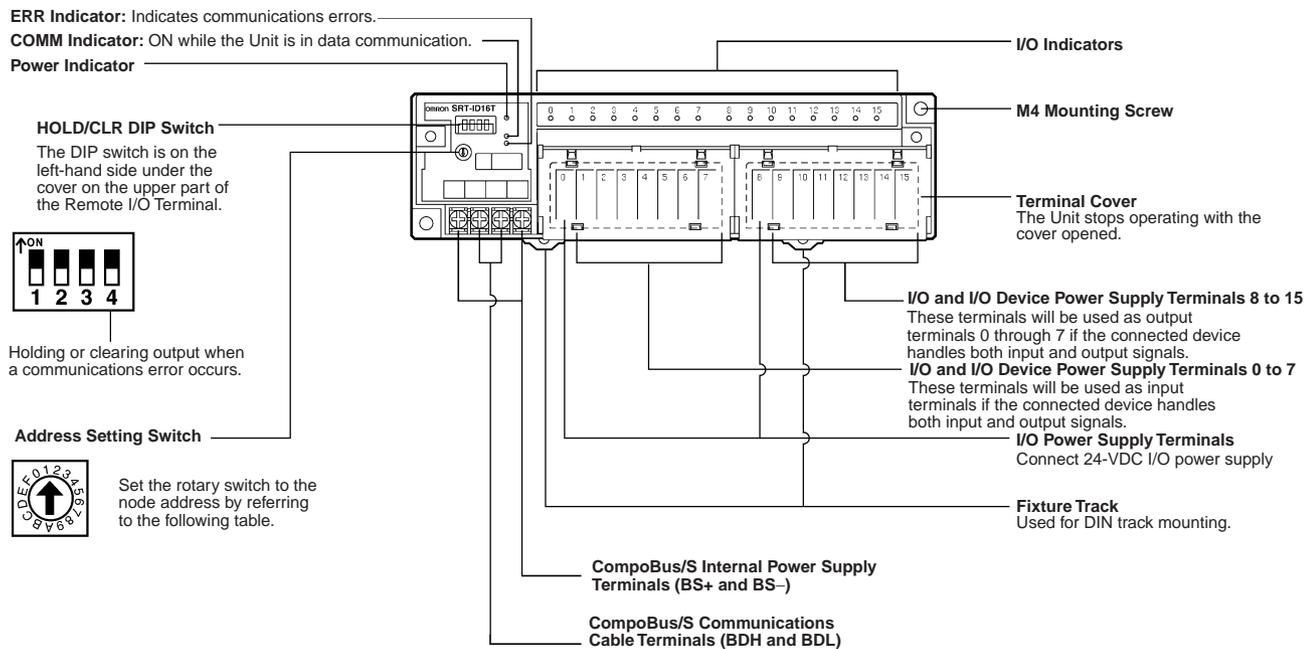
### Transistor Remote I/O Terminals with 3-tier Terminal Block SRT2-□D16T(-1)

## ■ Characteristics

Communications power supply voltage	14 to 26.4 VDC
I/O power supply voltage	24 VDC $+10\%$ / $-15\%$
I/O power supply current	4 A max./common
Current consumption (see note)	50 mA max. at 24 VDC
Connection method	Multi-drop method and T-branch method
Dielectric strength	500 VAC between insulated circuits
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power lines)
Vibration resistance	10 to 150 Hz, 1.0-mm double amplitude or 70 m/s <sup>2</sup>
Shock resistance	200 m/s <sup>2</sup>
Mounting strength	No damage with 100 N pull load applied in all directions.
Terminal strength	No damage with 100 N pull load applied
Screw tightening torque	0.3 to 0.5 N • m
Ambient temperature	Operating: -10°C to 55°C Storage: -25°C to 65°C
Ambient humidity	Operating: 25% to 85% (with no condensation)
Weight	300 g max.

**Note:** The above current consumption is the value with all points turned ON excluding the current consumption of the external sensor connected to the input Remote Terminal and the current consumption of the load connected to the output Remote Terminal.

## Nomenclature



## Address Setting Switch

Node address	Setting (Hex)
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Node address	Setting (Hex)
8	8
9	9
10	A
11	B
12	C
13	D
14	E
15	F

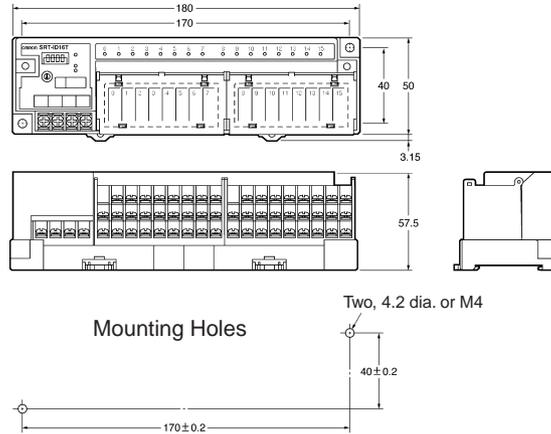
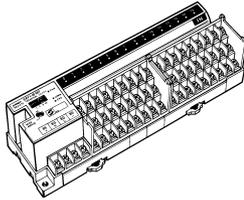
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SRT2-□D16T(-1)

## Dimensions

Note: All units are in millimeters unless otherwise indicated.

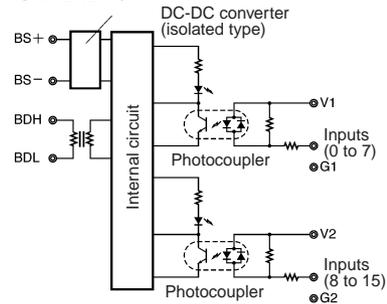
SRT2-ID16T (-1)  
SRT2-MD16T (-1)  
SRT2-OD16T (-1)



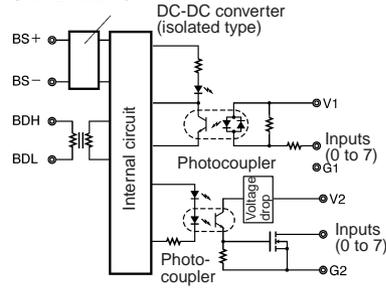
## Installation

### Internal Circuit Configuration

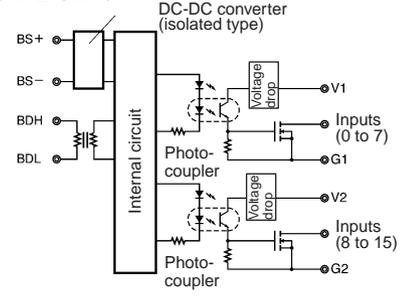
SRT2-ID16T



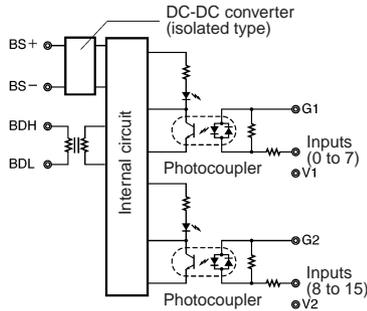
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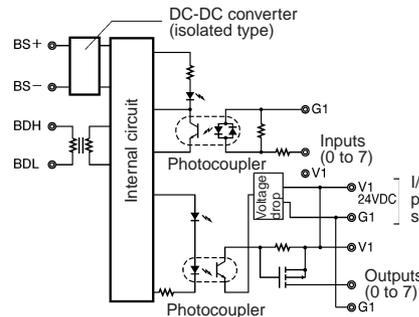
SRT2-OD16T



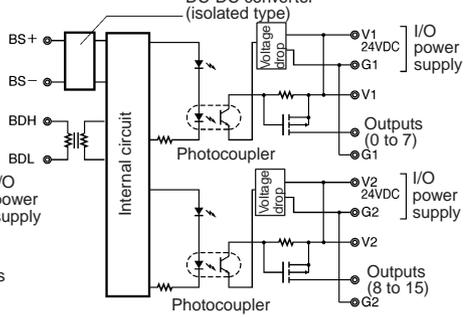
SRT2-ID16T-1



SRT2-MD16T-1



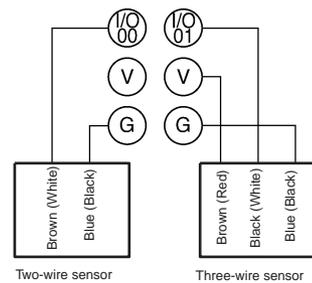
SRT2-OD16T-1



### External Connections

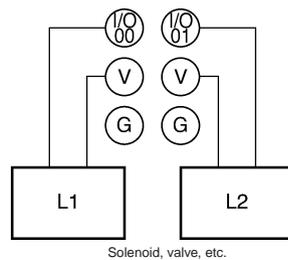
#### Input (NPN Models)

SRT2-ID16T  
SRT2-MD16T



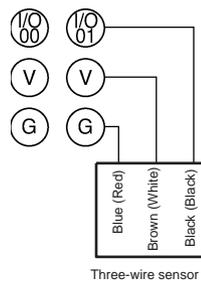
#### Output (NPN Models)

SRT2-OD16T  
SRT2-MD16T



#### Input (PNP Models)

SRT2-ID16T-1  
SRT2-MD16T-1



#### Output (PNP Models)

SRT2-OD16T-1  
SRT2-MD16T-1

