# General Specifications

RYV Relay I/O Cards Nest (Vertical Mounting Type) **NTXUL** 

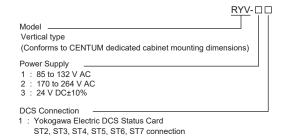
**GS 77J06Y61-01EN** 

#### **■ GENERAL**

This vertical mounting type nest is used to store relay I/O cards to fit mounting dimension of the CENTUM dedicated cabinet.

- Can store up to 16 units (32 channels) relay I/O cards.
- Can make mixed store of replay input and output cards in one nest
- · Can connect between nest and DCS with connector.
- Can connect with sequencer since necessary power to receive signal between nest and sequencer is supplied from the nest.
- Non-voltage contact of nest alarm terminal becomes ON when break of fuse in relay I/O cards.

# ■ MODEL AND SUFFIX CODES



## **■ ORDERING INFORMATION**

(Example) Type Code: RYV-31

# **■ SPECIFICATIONS**

Number of relay I/O cards be stored

16 units (32 channels, 2 channels per card)

Combination: (1) Input card 16 units (32 channels)

(2) Input card 8 units (16 channels) Output card 8 units (16 channels)

(3) Output card 8 units (16 channels)

Supply power: Supply power to 16 I/O cards in block Alarm: Non voltage contact outputs from alram

terminal when fuse breaks in I/O card. Output rating: 30 V DC, 300 mA

(Set flash off circuit in parallel to load when connecting conduct circuit externally)

#### ■ STANDARD PERFORMANCE

Insulation resistance

(RYV-1x, 2x) 100 MΩ (500 V DC) between power supply - connector (CN1·2·3) - ground - voltage contact output power supply - connector - alarm contact output However, except between connector (CN1·2·3) and power supply, between connector(CN1·2·3) and ground, between power supply and ground. 50 MΩ (500 V DC) between connector (CN1·2·3) and power supply, between connector (CN1·2·3) and ground, between power supply and ground, between power supply and ground

(RYV-3x) 100 MΩ (500 V DC) between [power supply•connector (CN1·2·3)] - ground - voltage contact output power supply - alarm contact output

Voltage withstand

(RYV-1x, 2x) 1500 V AC/1 minute between power supply - connector (CN1·2·3) - gound - voltage contact power supply - alarm contact output

However, except between connector (CN1·2·3) and ground, between voltage contact output power supply and alarm contact output.

500 V AC/1 minute between connector (CN1·2·3) - ground, between voltage contact power supply and alarm contact output

(RYV-3x) 1500 V AC/1 minute between [power supply•connector (CN1·2·3)] - ground - voltage contact power supply - alarm contact output

However, except between [power supply•connector (CN1·2·3)] and ground, between voltage contact power supply and alarm contact output.

500 V AC/1 minute between [power supply•connector (CN1·2·3)] and ground,

supply•connector (CN1·2·3)] and ground between voltage contact power supply and alarm contact output

Temperature: 0 to 50°C

Humidity: 5 to 90% RH (no condensation)
Supply voltage: 24 V DC±10% (ripple content: less than 10%p-p) or 85 to 132 V AC, 170 to 264 V AC

Power supply for voltage contact output Less than 125 V AC/125 V DC Load current capacity: 32 channels (16 output cards) total less than 10 A



## ■ MOUNTING AND APPEARANCE

Mounting method: Wall mounting (Applicable to CENTUM cabinet mounting dimensions)

Connecting screw: M5 screw, 4 places

External connection:

Power supply, ground, alarm: Refer to terminal

assignements DCS side connecting cable:

ST2/ST3/ST4 card connection: KS2 ST5/ST6/ST7 card connection: KS9

Paint color: Black External dimension

DC power supply use:  $110 \times 490 \times 104.1$  (H × W × D) AC power supply use:  $110 \times 490 \times 142.4$  (H × W × D) Weight: About 2 kgs (DC power supply use), About 2.3 kgs (AC power supply use)

## ■ ACCESSORIES

Mounting blacket: 1 pair Nest tag number label: 1 Card tag number label 16

#### ■ TERMINAL ASSIGNEMENTS

#### DC Power Supply (RYV-31)

Terminal No.	Terminal symbol	RYV-31	
1	L (+)	Voltage contact output power supply 125 V AC/DC or less	
2	N (-)		
3	AL1	Relay I/O card fuse break alarm	
4	AL2		
5	<u></u>	Relay I/O card power supply 24 V DC±10%, 1.5 A	
6	+		
7	_		

## AC Power Supply (RYV-11, RYV-21) (Style S2.0)

Upper (Screw: M3.5)



Lower (Screw: M4)



Terminal No.		Terminal	DVV 44	DV// 04
Upper	Lower	symbol	RYV-11	RYV-21
	1	L (+)	Voltage contact output power supply 125 V AC/DC or less	
	2	N (-)		
	3	AL1	Relay I/O card fuse break alarm	
	4	AL2		
	5	Ť		
6		N	100-120 V AC	200-240 V AC
7		L	(-15%,+10%) 50 / 60 Hz 1 A (-15%,+10%) 50 / 60 Hz 0.5 A	(-15%,+10%)
8		÷		

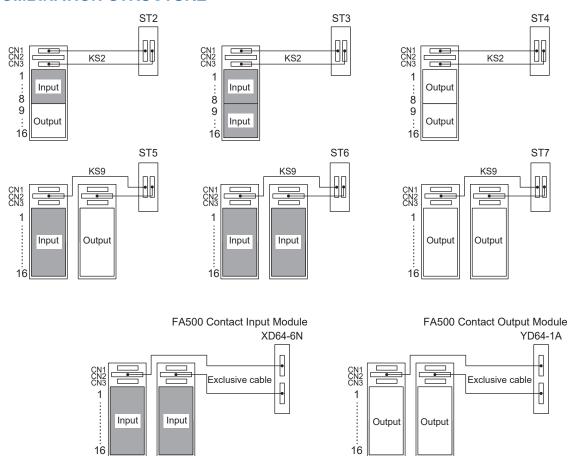
Note: For style S1.0, the specifications of the upper terminal are different as shown below.

• Screw M4

• Terminal Assignments

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Terminal	Terminal		
No.	symbol		
6	L		
7	N		

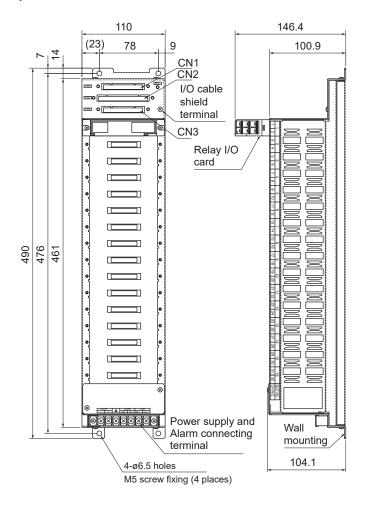
# **■ COMBINATION STRUCTURE**



# **■ EXTERNAL DIMENSION**

## DC Power Supply (RYV-31)

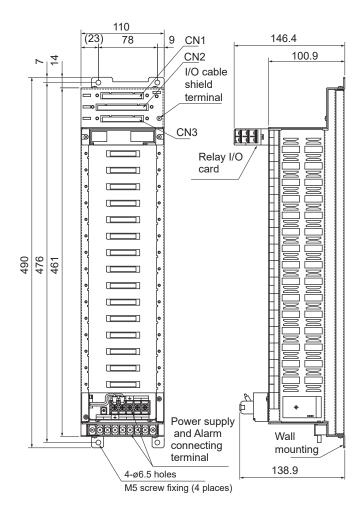
Unit: mm



Normal Allowable Deviation= ± (Value of JIS B 0401-2016 tolerance grade IT18) / 2

# AC Power Supply (RYV-11, RYV-21)

Unit: mm



Normal Allowable Deviation= ± (Value of JIS B 0401-2016 tolerance grade IT18) / 2