General Specifications

GS 77J01C51-01E

Model VJCE-011, VJCE-012 VJCE-013, VJCE-014 VJ Mounting Base **NTXUL**

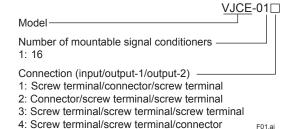
■ General

The VJCE is a horizontally installed, side-by-side multiple mounting base that complies with the standard rack-mounting dimensions specified by the JIS/EIA standards. The VJCE base can accommodate up to 16 signal conditioners in the JUXTA VJ series.

The VJCE base features the following:

• Different signal conditioner models in the VJ series can be mixed and housed in the same base.

■ Model and Suffix Codes



Items to be Specified when Ordering

• Model and Suffix Codes: e.g. VJCE-012

■ Mountable Models

Model and suffix codes	Mountable Signal Conditioners
VJCE-011 VJCE-014	VJA1, VJA4, VJA5, VJA7, VJB1, VJB3, VJC1, VJD1, VJF1, VJG1, VJH1, VJH7, VJHF, VJHR, VJP1, VJP4, VJP8, VJQ0, VJQ2, VJQ7, VJQ8, VJR6, VJS2, VJS7, VJSS, VJT6, VJU7, VJX7, VJX8
VJCE-012	VJH1, VJH7, VJHF, VJHR, VJQ0, VJQ7, VJX7, VJXS, VJHK
VJCE-013	VJA1, VJA4, VJA5, VJA7, VJB1, VJB3,VJC1, VJD1, VJF1, VJG1, VJH1, VJH7, VJHF, VJHR, VJP1, VJP4, VJP8, VJQ0, VJQ2, VJQ7, VJQ8, VJR6, VJS2, VJS7, VJSS, VJT6, VJU7, VJX7, VJXS, VJAK, VJHK, VJMK, VJQK, VJRK, VJSK, VJTK

■ Standard Performance

Insulation resistance: 100 M Ω minimum at 500 V DC between input, output-1, ouput-2, power supply terminals and grounding terminals mutually.

Withstanding voltage: 2000 V AC for one minute between input, (output-1, output-2), power supply terminals and grounding terminals mutually; 1000 V AC for one minute between output-1 and output-2.

However, the above is not applied to the following. VJCE-011: 500 V AC for one minute between output-1 and grounding terminals.

VJCE-012: 500 V AC for one minute between input and grounding terminals.

VJCE-014: 500 V AC for one minute between output-2 and grounding terminals.

Note 1: When 2-channel type of VJA4 or VJC1 is mounted on VJCE base, not isolated between the channels.

Operating temperature range: 0 to 50°C Operating humidity range: 5 to 90% RH (no condensation)

Supply voltage range: 85 to 264 V AC/DC (47 to 63 Hz), or 12 to 48 V DC, depending on the power supply specifications of signal conditioners (Power is fed through the power supply terminals on the VJCE base directly to the mounted signal conditioners).

Note 2: Signal conditioners must be operated on the same power supply.

Note 3: Confirm the specifications of each conditioner since the operating conditions for each conditioner differ.

■ Mounting and Appearance

Signal connection:

Model	Input	Output-1	Output-2
VJCE-011	M3.5 screw terminal	Connector	M3.5 screw terminal
VJCE-012	Connector	M3.5 screw terminal	M3.5 screw terminal
VJCE-013	E-013 M3.5 screw terminal M3.5 screw terminal		M3.5 screw terminal
VJCE-014	M3.5 screw terminal	M3.5 screw terminal	Connector

Connector: 40-pin connector, the dedicated connection cable is required.

Cable connection: Using KS2 cable

Installation: Rack-mounted, or wall-mounted in a

horizontal position

Mounting screw: Four M5 size screws

Finish color: Black

External dimensions: Refer to External Dimensions.

Weight: Approx. 2.6 kg (the base alone)

■ Safety Standards

Certified for CSA1010

CSA1010 category: CAT II (IEC1010-1)

The above certified/approved instrument is only for voltage of 24 V DC ±10%.

Assignment of Power Supply Terminals



Terminal Number	Signal Symbol
1	SUPPLY L (+)
2	SUPPLY N (-)
3	GND ≟



■ Assignment of Input/Output Terminals

• VJCE-011

"N.C." in the table denotes unassigned terminals.

		Input Te		e denotes i		Terminal	
Mountab	le Signal Conditioners	1	3	4	6	2	5
V.IH1 V.IH7	VJHF, VJHR	+	_				
VJQ0, VJQ7				N.C.	N.C.	+	_
VJXS, VJX7		₽_^	√—° (*3)				
		Char	nnel-1	Chan	inel-2	Char	nel-2
VJC1 (*1)							
		+	_	+	_	+	-
VJT6		+	-				
VJU7 (TC or	mV input)		9	٩	N.C.	+	-
			RJC	_			
VJR6		A	В	В			
VJU7 (RTD i	nput)	AW-C	0 W	QW)	N.C.	+	-
			VV				
V/IS2 V/IS7		100% 9	CENTER Q	0% Q	NC	<u>,</u> .	
VJS2, VJS7		9W-		-Wo	N.C.	+	_
		PS+		N.C.			
	When using internal power	0	0	14.0.	N.C.	+	_
VJA1	supply	L-C	ئــ				
VJA5	When using external power	N.C.	+	_			
VJA7	supply (When used as an		Ŷ	\	N.C.	+	-
isolator)							
		Channel-1 Chann		nel-2	Chan	nel-2	
VJA4 (*1)		+	_	+	_	+	-
, ,		0 (_	0 0	0	1	
		<u>و</u>	J.	<u>و</u>	ب		
VIDA		<u>е</u>	±			N.O.	N.O.
VJB1		A	5	N.C.	N.C.	N.C.	N.C.
VJB1		A 2_ _x	± ~			N.C.	N.C.
		A V	± ± ± 0	N.C.	N.C.		
VJB1		A V	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			N.C.	N.C.
		A	± ± ± × 9	N.C.	N.C.		
		A	± ± × ° × × × × × × × × × × × × × × × ×	N.C.	N.C.		
VJG1		A	± ± ± × 9	N.C.	N.C.	N.C.	
VJG1		A V V AV	± ± ± × 9	N.C.	N.C.	N.C.	
VJG1		A V V A A V V V V	± ± ± × × × × × × × × × × × × × × × × ×	N.C.	N.C.	N.C.	
VJG1 VJB3 VJD1		A V A AV V C C C C C C C C C C C C	±	N.C.	N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1	Non-voltage contact / Voltage contact	A V V A A V V V V	± ± + ± + + +	N.C.	N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1 VJP4	Internally powered current pulse	A V A AV V C C C C C C C C C C C C	± ± ± × 9 ± ± ± + + + + + + + + + + + + + + + +	N.C. N.C. N.C.	N.C. N.C. N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8	Internally powered current pulse (two-wire system)	A V ANV V N.C.	± ± + ± + + +	N.C. N.C. N.C.	N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8 VJQ2 (*2)	Internally powered current pulse	A V ANV V N.C.	± ± ± × 9 × 1 ± + + + + + + + + + + + + + + + + + +	N.C. N.C. N.C.	N.C. N.C. N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8	Internally powered current pulse (two-wire system) Internally powered voltage pulse	A V A A A A A A A P A P N R P P P P P P P P P P P P	± ± + + + + + + + + + + + + + + + + + +	N.C. N.C. N.C.	N.C. N.C. N.C. N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8 VJQ2 (*2) VJQ8	Internally powered current pulse (two-wire system) Internally powered voltage pulse	A	± ± + + + +	N.C. N.C. N.C.	N.C. N.C. N.C.	N.C.	
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8 VJQ2 (*2)	Internally powered current pulse (two-wire system) Internally powered voltage pulse	A	± ± ± + + + + + + + + + + + + + + + + +	N.C. N.C. N.C.	N.C. N.C. N.C.	N.C. + + +	
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8 VJQ2 (*2) VJQ8 VJSS	Internally powered current pulse (two-wire system) Internally powered voltage pulse	A	± ± + + + +	N.C. N.C. N.C.	N.C. N.C. N.C.	N.C. + + + +	N.C
VJG1 VJB3 VJD1 VJP1 VJP4 VJP8 VJQ2 (*2) VJQ8	Internally powered current pulse (two-wire system) Internally powered voltage pulse	A	± ± + + + + + + + + + + + + + + + + + +	N.C. N.C. N.C.	N.C. N.C. N.C. N.C. N.C.	N.C. + + +	

Input Terminals Output-2 Teminals * 2 5 3 6 4 1

"*" in the figure above denote a slot number. Slots are numbered from 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

CN1 Connector's Pin Assignment

CN1		Pin No.	Slot N	0.	
40	39		40	1	+
			39	2	+
38	37		38 37	4	
			36	3	+
36	35		35		_
34	33		34	4	+
34	33		33		-
32	31		32	5	+
	•		31 30	6	+
30	29		29	0	
			28	7	+
28	27		27		-
26	25		26	8	+
20	25		25		+
24	23		24	9	+
	_		23 22	10	+
22	21		21	10	_
			20	11	+
20	19		19	''	-
18	17		18	12	+
10	17		17		+
16	15		16	13	
			15 14	14	+
14	13		13	'4	_
40	44		12	15	+
12	11		11		-
10	09		10	16	+
.0	00		09		
08	07		08 07		
			06		$\overline{}$
06	05		05		
04	03		04		$\overline{}$
04	US		03		
02	01		02		$\overline{}$
J_	٠.		01		

Note: The figure represents the connector when viewed from the connector cable.

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• VJCE-012

Mountable Signal Conditioners	Output-1 Terminal Output-2 Termin				
Mountable Signal Conditioners	7	9	2	5	
VJH1, VJH7, VJHF, VJHR, VJQ0 VJQ7, VJXS, VJX7, VJHK	+	_	+	_	

CN1 connector's pin assignmet is same as VJCE-011.

Output Terminals

_		SLOT*			•	Г
		7		9		
	2	2	5	5		

"*" in the figure on the left denote a slot number. Slots are numbered from 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

^{*1:} For 2-channel type, only the voltage output is mountable on VJCE base. Output of channel-1 is output to the connector (CN1).
*2: Since VJQ2 is single output type, output-2 terminals are N.C.

^{*3:} When receiving current input (current pulse), external shunt resistor (receiving resistor) is required.

● VJCE-013

"N.C." in the table denotes unassigned terminals.

		Input Terminal				Terminal		notes unassigned terminals Output-2 Terminal		
Mountal	ole Signal Conditioners	1	3	4	7	9	2	5	6	
VJH1, VJH7,	VJHF, VJHR	+	_				_			
VJQ0, VJQ7	, -	_		N.C.	+	_	+	_	N.C.	
VJXS, VJX7,	VJHK	ک_۸	√—° (*3)							
		Char	nnel-1		Chan	nel-1				
VJC1 (*1)				N.C.			N.C.	N.C.	N.C.	
		+	_		+	_				
VJT6		+	-							
VJU7 (TC or	mV input)		_گ	٩	+	_	+	_	N.C.	
VJTK			RJC							
VJR6		Α	В	В						
VJU7 (RTD i	nput)	9 	🖇	QW	+	_	+	-	N.C.	
VJRK		V	VV -	_						
VJS2		100%	CENTER							
VJS7		A	Q ₩	• • • • • • • • • • • • • • • • • • •	+	_	+	-	N.C.	
VJSK			<u> </u>							
	When using internal power	PS+	_	N.C.						
VJA1	supply	ΙP	بَ							
VJA5 VJA7					+	_	+	_	N.C.	
VJA/ VJAK	When using external power supply (When used as an isolator)	N.C. + -								
VJAN			<u></u>	ا لُـر						
		Channel-1		Channel-1						
VJA4 (*1)			N.C.		N.C.	N.C.	N.C.	N.C.		
- ()		2	•)—9	+		14.0.				
		Α	±			_	N.C.	N.C.	N.C.	
VJB1		0		N.C.	+					
			₩_							
		V	±			_	N.C.		N.C.	
VJG1			<u>~</u> _^	N.C.	+			N.C.		
			N_							
\		A/V	±	ا ا		_			N.C.	
VJB3			بر	N.C.	+		+	_		
		V	±							
VJD1				N.C.	+	_	+	_	N.C.	
VODI		N.C. N.C.		·				14.0.		
	Non-voltage contact / Voltage contact	N.C.	+	_						
VJP1	Internally powered current pulse		+	_						
VJP4, VJP8	(two-wire system)	PS+	2	(*3) ^(*3)	+	_	+	_	N.C.	
VJQ2 (*2)	Internally powered voltage pulse	50					(*2)	(*2)		
VJQ8, VJQK	(three-wire system)	PS+	+	_						
		N.C.	N.C.	N.C.						
VJF1	VJF1		ough one	e-touch	+	_	N.C.	N.C.	N.C.	
		fitting Ø	6 of the V	'JF1.						
When output-2 is communication output.							B (+)	A (-)	COM	
When output-2	? is alarm output.		, .	, ,	+	-	AL1	COM	AL2	
σαιραί 2			g input, re				<u></u>	<u>~~~</u>	را	
VJAK, VJHK	, VJMK, VJQK, VJRK	above mo	odel by mo	odel.	0	0		0		
VJSK, VJTK	•				اُن ما				N.C.	
	annel type of VJC1 and VJA									

Output Terminals 2 5 6 7 9 Input Terminals



"*" in the figure above denote a slot number. Slots are numbered from 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

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^{*1:} Only 1-channel type of VJC1 and VJA4 are mountable on VJCE base.
*2: Since VJQ2 is single output type, output-2 terminals are N.C.
*3: When receiving current input (current pulse), external shunt resistor (receiving resistor) is required.

● VJCE-014

"N.C." in the table denotes unassigned terminals.

				erminal	DIC GCHOLC		Torminal
Mountab	le Signal Conditioners	1	3	4	6	7	Terminal 9
V.IH1 V.IH7	VJHF, VJHR	+	_	7	0	,	
VJQ0, VJQ7 VJXS, VJX7			√ √ (*2)	N.C.	N.C.	+	-
		Char	nnel-1			Char	nel-1
VJC1 (*1)	VJC1 (*1)			N.C.	N.C.	+	-
VJT6		+	_				
VJU7 (TC or	mV input)		RJC -		N.C.	+	-
VJR6		Α	В	В			
VJU7 (RTD i	nput)	9 W	o-Wh-	QW	N.C.	+	-
		100%	CENTER	0%			
VJS2, VJS7		QW/		W	N.C.	+	-
		PS+	_	N.C.			
VJA1	When using internal power supply	<u> </u>	ب		N.C.	+	-
VJA5	M/han using sytemal names	N.C.	+	_			
VJA7	When using external power supply (When used as an isolator)				N.C.	+	-
		Chan	inel-1			Channel-1	
VJA4 (*1)		+	_ }9	N.C.	N.C.	+	-
VJB1		А	±	N.C.	N.C.	+	
VJB1		2~∧	₩	14.0.	14.0.	·	
VJG1		V	± N	N.C.	N.C.	+	-
VJB3		AN	±	N.C.	N.C.	+	-
VJD1	VJD1		±	N.C.	N.C.	+	-
VJP1	Non-voltage contact / Voltage contact	N.C.	+	-			
VJP4	Internally powered current pulse	PS+	+	-			
VJP8	(two-wire system)	(two-wire system)		المار (*2)	N.C.	+	-
VJQ2 VJQ8	Internally powered voltage pulse (three-wire system)	PS+	+	_			
VJSS		+	-	+	-		
		Q		٩٨	(*2)	+	_
VJF1		N.C.	N.C.	N.C.	N.C.	+	_
		Input through one-touch fitting Ø6 of the VJF1.					

Input Terminals SLOT* 3 6 4

Output-1 Teminals * 7 9

"*" in the figure above denote a slot number. Slots are numbered from 1 to 16, beginning with the leftmost slot, when viewed from the VJCE front.

CN1 nnector's Pin Assianment

Connector's Pin Assignme							
CN1		Pin No.	Slot No.				
40	39		40 39	1 +			
38	37		38 37	2 +			
36	35		36	3 +			
34	33		35 34	4 +			
07	00		33	5 +			
32	31		32 31	_			
30	29		30 29	6 +			
28	27		28 27	7 +			
			26	8 +			
26	25		25				
24	23		24	9 +			
			23 22	10 +			
22	21		21				
20	19		20	11 +			
			19 18	12 +			
18	17		17				
16	15		16	13 +			
.			15 14	14 +			
14	13		13	_			
12	11		12 11	15 +			
40			10	16 +			
10	09		09	_			
08	07		08 07				
			06				
06	05		05				
04	03		04 03				
02	01		02 01				
		1	_ v'				

Note: The figure represents the connector when viewed from the connector cable.

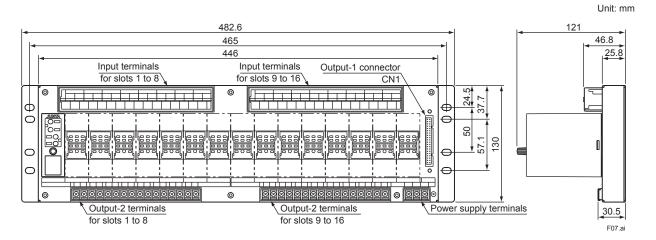
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^{*1:} Only 1-channel type of VJC1 and VJA4 are mountable on VJCE base.
*2: When receiving current input (current pulse), external shunt resistor (receiving resistor) is required.

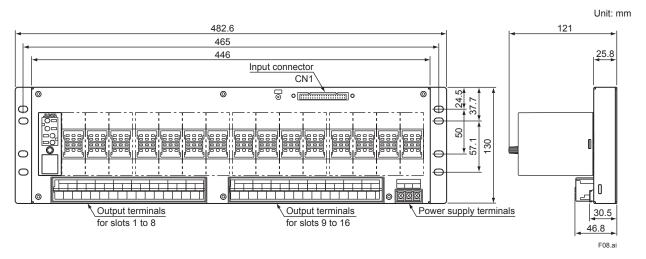
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■ External Dimensions

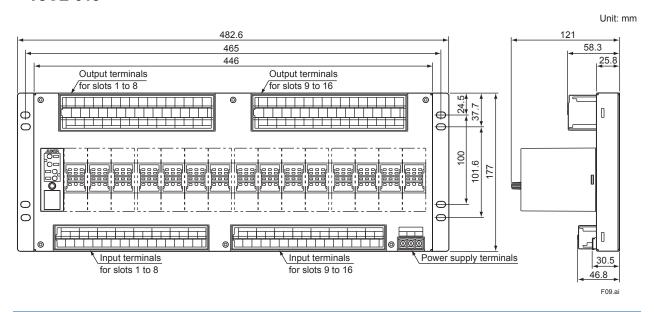
VJCE-011



● VJCE-012



VJCE-013



● VJCE-014

