

General Specifications

Model VJA4
Distributor (non-isolated)

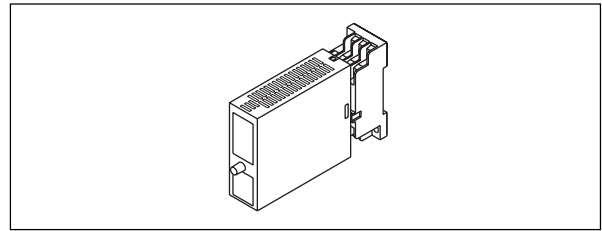
JUXTA

GS 77J01A04-01E

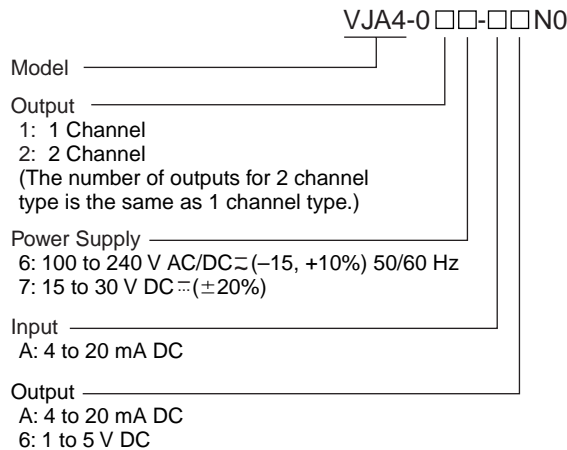
General

This plug-in type distributor is used in combination with 2-wire type transmitters and converts 4 to 20 mA DC signals into DC current or DC voltage signals. The input/output signal is non-isolated.

- One-channel or two-channel type can be selected.



Model and Suffix Codes



Input

Input Signal: 4 to 20 mA DC from 2-wire transmitter, 1 point
Input Resistance: 250 Ω (for voltage output)
Transmitter Power Supply: 24 to 28 V DC
(with current limit circuit at 25 to 35 mA)
Permissible Conductor Resistance: $RL \leq (20 - \text{transmitter minimum operating voltage}) / 0.02 \text{ A} (\Omega)$
Permissible Input Current: 40 mA or less

Output

Output signal: 4 to 20 mA DC or 1 to 5 V DC
Permissible load resistance:
For 4 to 20 mA DC output:
[(24 V - Transmitter's minimum operating voltage)/20 mA] - Input wiring resistance
For 1 to 5 V DC output: 250 k Ω or more

Standard Performance

Accuracy rating: $\pm 0.1\%$ of span (for voltage output)
Effect of Power Supply Voltage Fluctuation: $\pm 0.1\%$ or less of span for power supply voltage fluctuation of 85 to 264 V AC (47 to 63 Hz)/DC and 12 to 36 V DC
Effect of Ambient Temperature Change: $\pm 0.2\%$ or less of span for change of 10 $^{\circ}\text{C}$

Safety and EMC Standards

The followings will be acquired.

Safety:

Conforms to IEC1010-1: 1990 and EN61010-11: 1993.
Certified for CSA1010
CSA1010 category: CAT II (IEC1010-1)
Certified for UL508

EMC Standards:

Conforms to the following EMC standards.
EN55011: 1991 Class A Group1 for EMI (emissions)
EN50082-2: 1995 for EMS (immunity)
The above conformed instrument is only for voltage of 15 to 30 V DC $\pm(\pm 20\%)$.

Environmental Conditions

Temperature: 0 to 50 $^{\circ}\text{C}$
Humidity: 5 to 90% RH (no condensation)
Ambient Condition: Avoid installation in such environments as corrosive gas like hydrogen sulfide, dust, sea breeze and direct sunlight.
Installation altitude 2000 m or less above sea level.

Power Supply and Isolation

Power supply voltage:
100 to 240 V AC/DC $\pm(-15, +10\%)$ 50/60 Hz
15 to 30 V DC $\pm(\pm 20\%)$
Power dissipation:
24 V DC 2.5 W, 110 V DC 2.5 W
100 V AC 4.8 V A, 200 V AC 5.3 V A
Insulation resistance:
100 M Ω /500 V DC between channel 1, channel 2, power supply, and ground mutually
Withstand voltage:
2000 V AC/minute between (channel 1, channel 2), power supply, and ground mutually
1000 V AC/minute between channel 1 and channel 2

■ Mounting and Appearance

Construction: Compact plug-in type
 Material: Modified Polyphenylene Oxide (Case body)
 Mounting Method: Wall, DIN rail, or dedicated VJ mounting base mountings
 Connection Method: M3 screw terminal
 External Dimension: 29.5 (W)×76 (H)×124.5 (D) mm
 Weight: Approx. 170 g

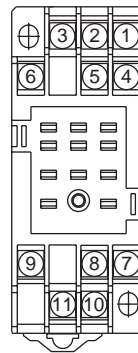
■ Standard Accessories

Tag number label: 1

■ Items to Specify When Ordering

- Model and suffix codes

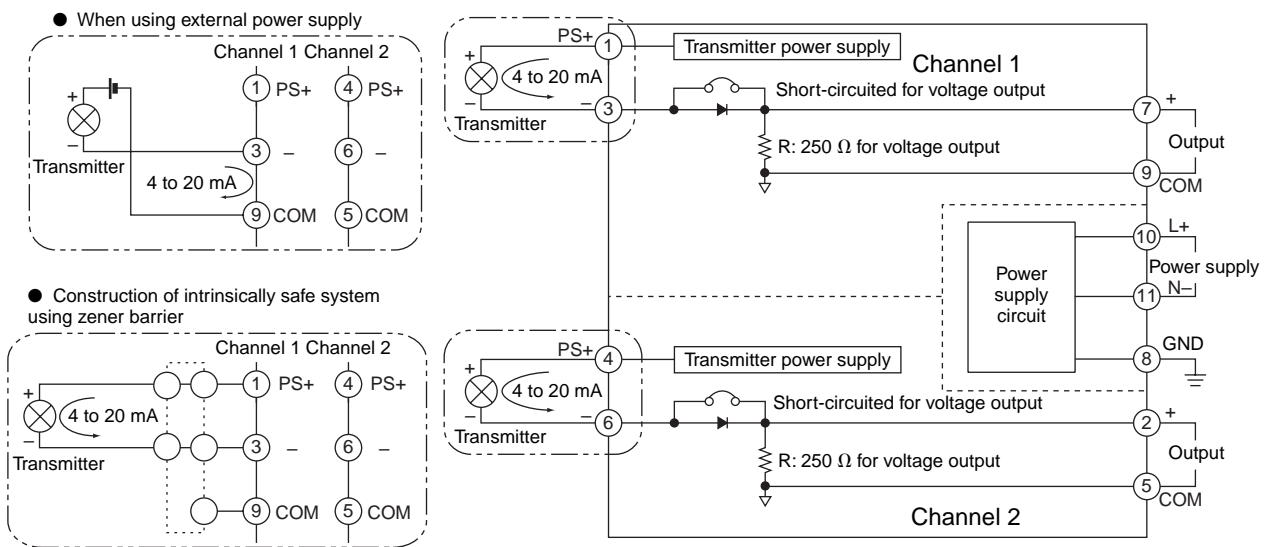
■ Terminal Arrangement



Terminal No.	Signal
1	Input (PS+) for channel 1
2	Output (+) for channel 2
3	Input (-) for channel 1
4	Input (PS+) for channel 2
5	COM for channel 2
6	Input (-) for channel 2
7	Output (+) for channel 1
8	GND
9	COM for channel 1
10	Power supply (L+)
11	Power supply (N-)

Note 1: With channel 1 type, terminals for channel 2 are not connected.

■ Block Diagram



■ External Dimensions

