

General Specifications

Model DA0
Output Isolator
(Voltage Input/Current Output Type)

JUXTA

GS 77J05A10-01E

General

The DA0 is a nest-mounting type DCS-supported isolator that receives 1 to 5 V DC signals from DCS, and converts them into isolated 4 to 20 mA DC or 10 to 50 mA DC signals.

Model and Suffix Codes

Model **DA0-6□N*B**
Input Signal
6 : 1 to 5 V DC
Output signal
A : 4 to 20 mA DC
H : 10 to 50 mA DC
Z : (Custom order)
Current signal
Power supply
24 V DC±10%

Ordering Information

Specify the following when ordering.

- Model and suffix codes: e.g. DA0-6AN*B

Input/Output Specifications

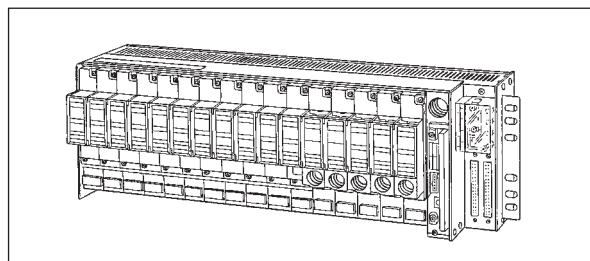
Input signal: 1 to 5 V DC
Internal voltage drop:
5 V DC or less (4 to 20 mA DC output)
14 V DC or less (10 to 50 mA DC output)
Maximum allowable input: 40 mA or less
Output signal: DC current signal
Allowable load resistance:
750Ω or less (4 to 20 mA DC output)
220Ω or less (10 to 50 mA DC output)
Zero adjustment: -1 to +1%
Span adjustment: 95 to 105%

Standard Performance

Accuracy rating: ±0.1% of span
Response speed: 150 ms, 63% response (10 to 90%)
Insulation resistance: 100 MΩ or more at 500 V
DC between input and output, input and power supply mutually, and output and power supply.
Withstand voltage: 1500 V AC/min. between output and input, output and power supply.
500 V AC/min. between input and power supply.

Environmental Conditions

Operating temperature range: 0 to 50°C
Operating humidity range:
5 to 90% RH (no condensation)
Power supply voltage: 24 V DC±10%
(ripple content 5% p-p or less)



Effect of power supply voltage fluctuations: ±0.1% of span or less for the fluctuation within the operating range of power supply voltage specification.

Effect of ambient temperature change: ±0.2% of span or less for a temperature change of 10°C.
Current consumption: 24 V DC 85 mA (4 to 20 mA), 132 mA (10 to 50 mA)

Mounting and Dimensions

Mounting method: Nest-mounting (Signals and power supply are connected through back board and connector)

Note DA0 cannot be mounted to DME and DMP which are dedicated nests for control output.

Connection method: Connection to M4 screw terminals of the exclusive nest

External dimensions: 130.6(H)×23.6(W)×126(D) mm
Weight: Approx. 120 g

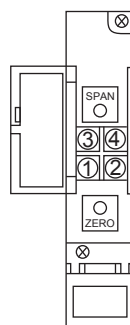
Standard Accessories

Tag number label: 1

Custom Order Specifications

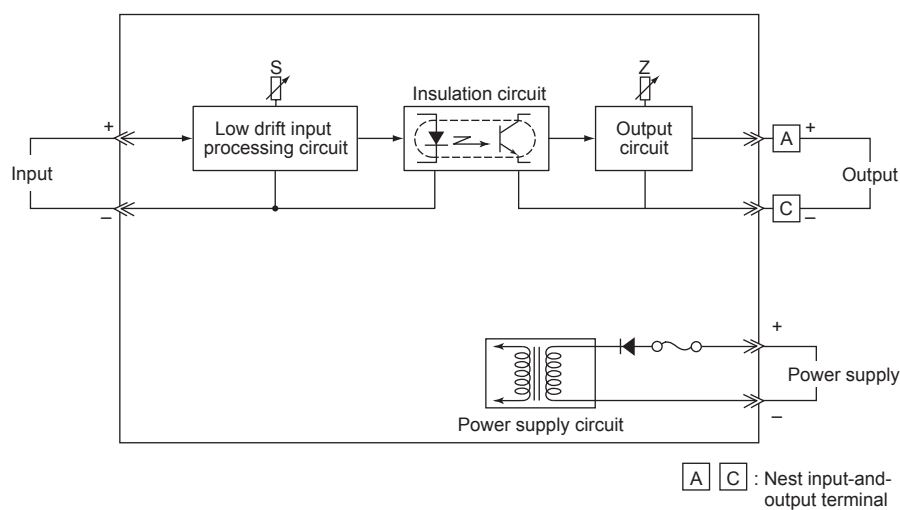
	Current signal
Output range (DC)	1 to 50 mA
Span (DC)	1 to 40 mA
Zero elevation	25%

Terminal Assignments

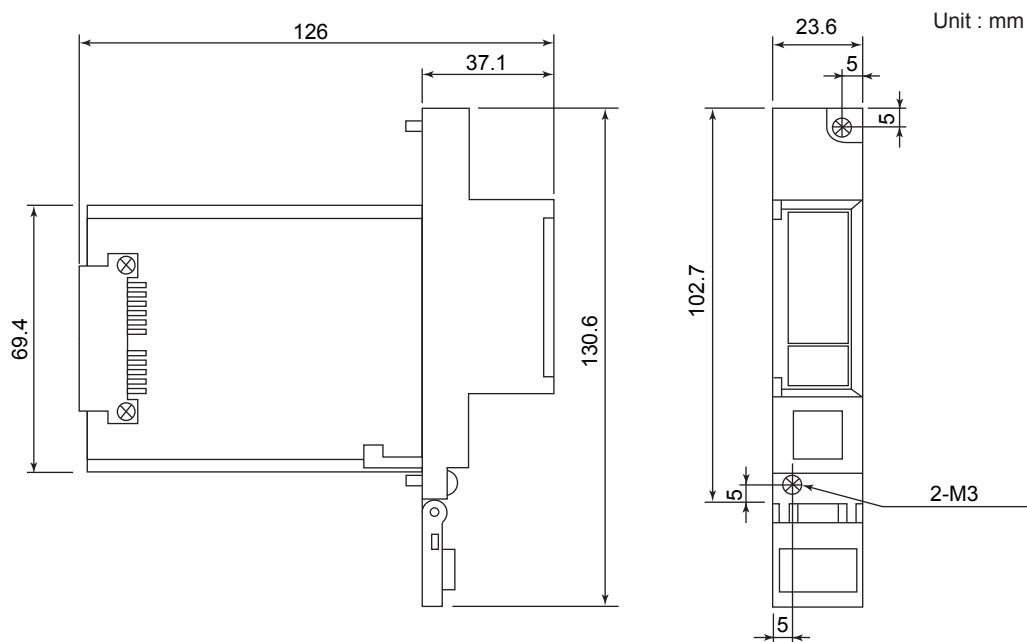


Terminal No.	Signal name
1	Do not use
2	Do not use
3	Do not use
4	Do not use

■ Block Diagram



■ External Dimensions



■ Basic Conditions and Individual Contracts at the Time of Purchase

The warranty for this product is defined in the basic conditions and individual contracts at the time of purchase. The individual conditions are as follows.

• Handling of non-conforming products

If Yokogawa verifies a non-conformity of the product that is attributable to Yokogawa within the warranty period, we will deliver an equivalent product.

Yokogawa can not provide a free evaluation of non-conforming products. The investigation of the non-conforming products will be performed at the expense of the customer.