

# General Specifications

Model DH0  
Output Isolator (Voltage I/O Type)

JUXTA

GS 77J05H10-01E

## ■ General

The DH0 is a nest-mounting type DCS-supported isolator that receives 1 to 5 V DC signals from DCS, and converts them into isolated DC voltage signals.

## ■ Model and Suffix Codes

DH0-6□N\*B

Model \_\_\_\_\_

Input Signal \_\_\_\_\_  
6 : 1 to 5 V DC

Output Signal \_\_\_\_\_  
1 : 0 to 10 mV DC  
2 : 0 to 100 mV DC  
3 : 0 to 1 V DC  
4 : 0 to 10 V DC  
5 : 0 to 5 V DC  
6 : 1 to 5 V DC  
0 : (Custom order)  
Voltage signal  
(±10 V or less)

Power supply  
24V DC±10%

## ■ Ordering Information

Specify the following when ordering.

- Model and suffix codes: e.g. DH0-66N\*B

## ■ Input/Output Specifications

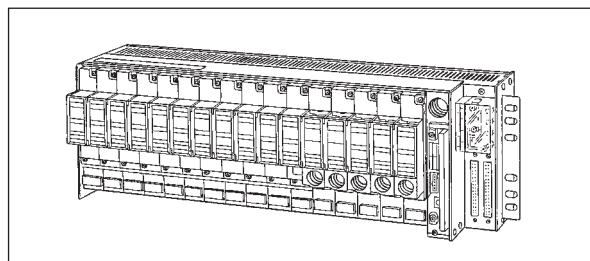
Input signal: 1 to 5 V DC  
Input resistance: 1 MΩ during power on, 100 kΩ during power off  
Maximum allowable input:  
Voltage input: Within ±30 V DC  
Output signal: DC voltage signal  
Allowable load resistance:

Output	Allowable load resistance
0 to 10 mV DC	250 kΩ or more
0 to 100 mV DC	250 kΩ or more
0 to 1 V DC	2 kΩ or more
0 to 10 V DC	10 kΩ or more
0 to 5 V DC	2 kΩ or more
1 to 5 V DC	2 kΩ or more

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, output and power supply, and input and power supply.  
Withstand voltage: 1500 V AC/min. between output and (input 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 50 mA

## ■ Mounting and Dimensions

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

Note: DH0 cannot be mounted to DME and DMP which are dedicated nests for control output.

Connection method:

External wiring; connection to M4 screw terminals of the dedicated nest  
Connection to I/O card; via dedicated cable (connector)

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

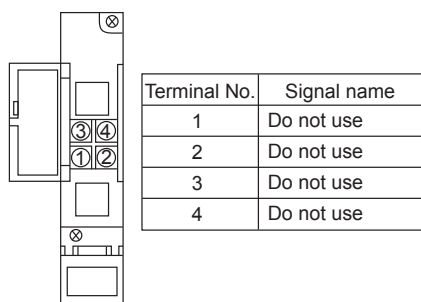
## ■ Standard Accessories

Tag number label: 1

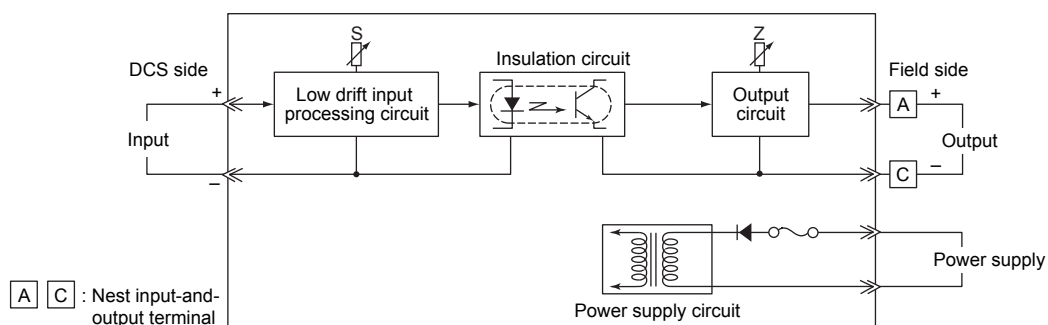
## ■ Custom Order Specifications

	Voltage signal
Output range (DC)	0 to 10 V
Span (DC)	10 mV to 10 V
Zero elevation	0%

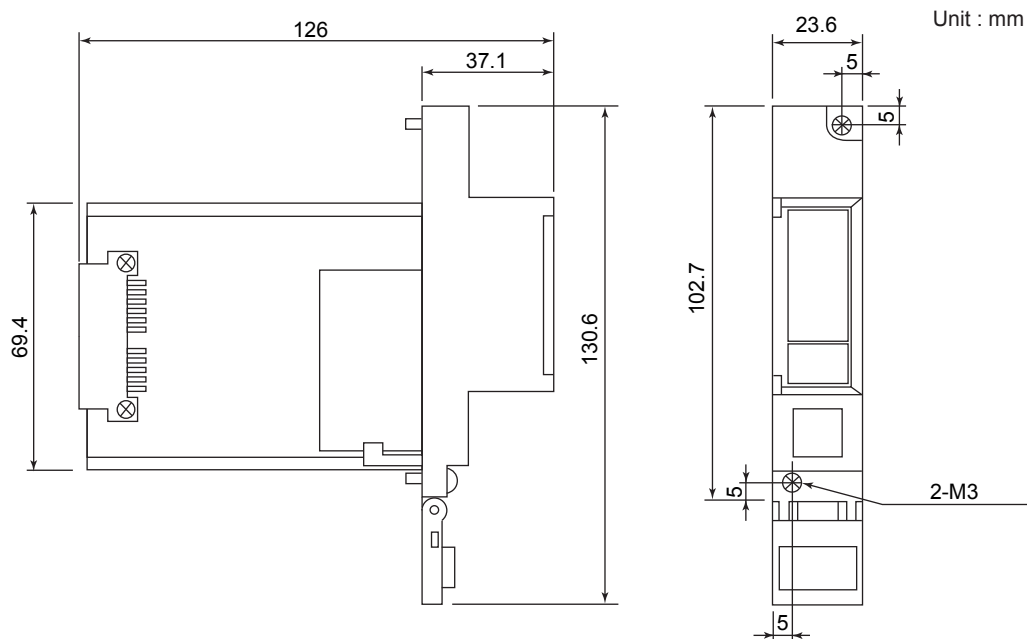
## ■ Terminal Assignments



## ■ 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.