

General Specifications

Model DC0
Output Isolator (Current I/O Type)

JUXTA

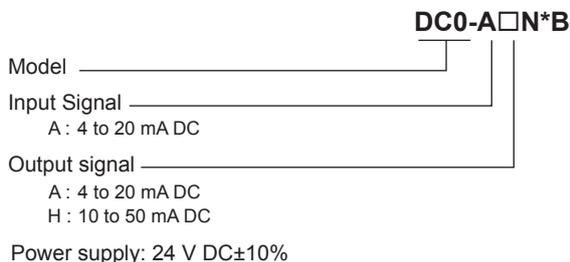
GS 77J05C10-01E

■ General

The DC0, a nest-mounting type DCS-supported isolator, receives 4 to 20 mA DC signals from DCS, and converts them into 4 to 20 mA DC or 10 to 50 mA DC current signals.

- When a load circuit opens, input resistance increases rapidly to 32 kΩ or more to detect the open state through the input device.
- Recommended arrester: AR-HA

■ Model and Suffix Codes



■ Ordering Information

Specify the following when ordering.

- Model and suffix codes: e.g. DC0-AAN*B

■ Input/Output Specifications

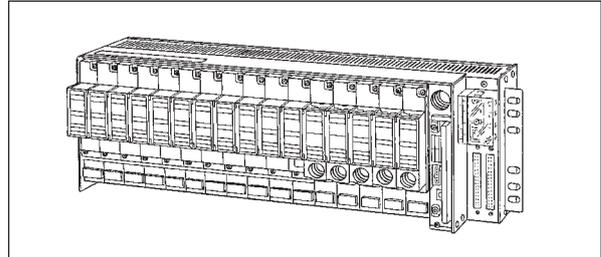
Input signal: 4 to 20mA DC
 Internal voltage drop:
 5 V DC or less (4 to 20 mA DC output)
 14 V DC or less (10 to 50 mA DC output)
 Maximum allowable input: 40 mA or less
 Output signal: 4 to 20mA DC or 10 to 50 mA DC
 Allowable load resistance:
 750Ω or less (4 to 20 mA DC output)
 220Ω or less (10 to 50 mA DC output)

■ Standard Performance

Accuracy rating:
 ±0.1% of span (4 to 20 mA DC output)
 ±0.3% of span (10 to 50 mA DC output)
 Response speed: 10 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 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 60 mA (4 to 20 mA),
 90 mA (10 to 50 mA)

■ Mounting and Dimensions

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

Note: DC0 cannot be mounted to DCE and DCP which
 are dedicated nests for I/O.

Connection method:

External wiring; connection to M4 screw terminals
 of the dedicated nest

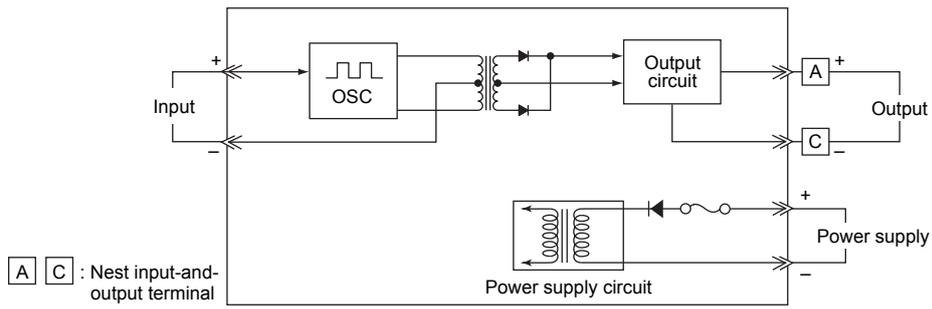
Connection to I/O card; via dedicated cable (con-
 nector)

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

■ Standard Accessories

Tag number label: 1

■ Block Diagram



■ External Dimensions

