

General Specifications

Model DSK
Limit Alarm

JUXTA

GS 77J05S21-01E

■ General

The DSK is a nest-mounting type limit alarm, receives 4-20 mA DC or 1-5 V DC signals, compares them with internal setting values and outputs alarm contacts.

- Alarm action points can be set by front volume, and directions and contacts can be selected by the internal switch.

■ Model and Suffix Codes

DSK-□11

Model _____

Input Signal _____

A : 4 to 20 mA DC 6 : 1 to 5 V DC

Z : (Custom order) 0 : (Custom order)

Current signal Voltage signal

(50 mA or less) (±10 V or less)

Output 1 Signal _____

1 : Alarm output (Relay contact)

Output 2 signal _____

1 : Alarm output (Relay contact)

Power supply: 24 V DC±10%

■ Ordering Information

Specify the following when ordering.

- Model and suffix codes: e.g. DSK-A11

■ Input/Output Specifications

Input signal: 4 to 20 mA DC or 1 to 5 V DC signal

Input resistance:

DC current input	Input resistance	DC voltage input	Input resistance
4 to 20 mA	250 Ω	1 to 5 V	1 MΩ during power on, 100 kΩ during power off.

Maximum allowable input:

Voltage input: Within ±30 V DC

Current input: Within 22 to 70 mA DC

Output signal type: Relay contact

Alarm output: a or c contact, 2 points

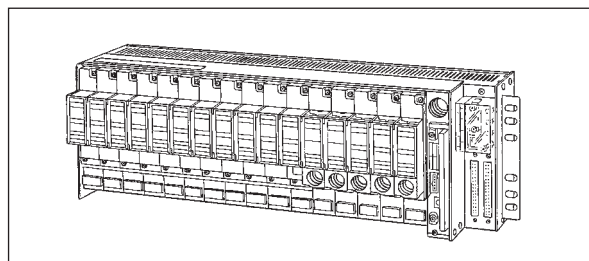
Contact rating:

125 V AC/1 A, 220 V AC/0.5 A (resistance load)

30 V DC/1 A, 125 V DC/0.1 A (resistance load)

Alarm setting range: -5 to +105%

(Hysteresis is fixed about 1 %.)



■ Standard Performance

Reproducibility of alarm action point: ±0.05% of span
Insulation resistance: 100 MΩ or more at 500 V DC between input and output 1, input and power supply, input and output 2, output 2 and power supply, output 1 and output 2, and power supply and output2.

Withstand voltage: 1500 V AC/min. between input and output 1, input and power supply, input and output 2, output 2 and power supply, output 1 and output 2, and power supply and output2.

■ 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 80 mA

■ Mounting and Dimensions

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

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. 100 g

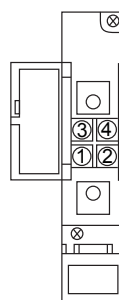
■ Standard Accessories

Tag number label: 1

■ Custom Order Specifications

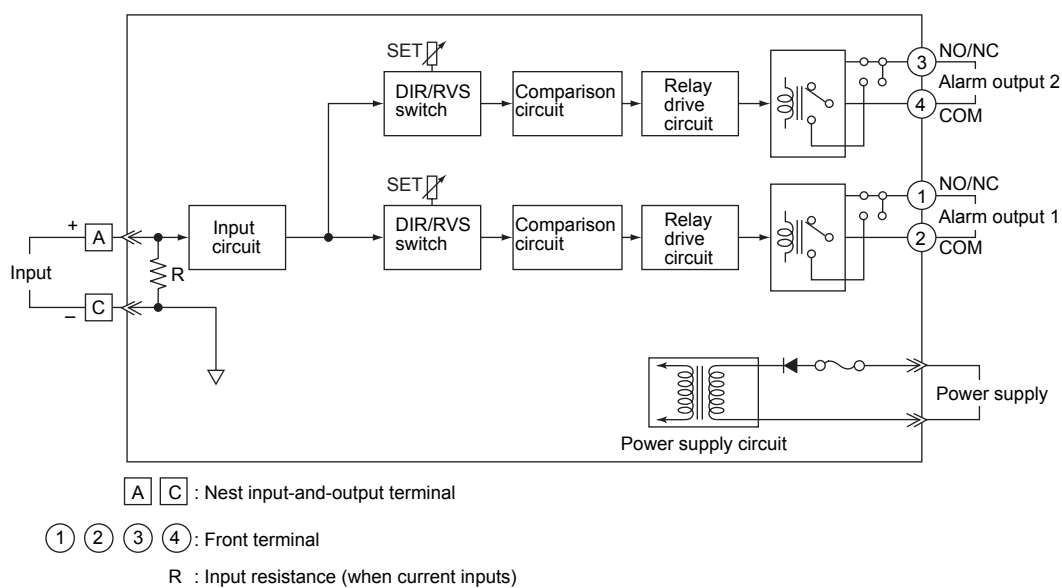
	Current signal	Voltage signal
Input range (DC)	0 to 50 mA	-10 to +10 V
Span (DC)	1 to 50 mA	1 to 20 V
Zero elevation	0 to 50%	-50 to 50%

■ Terminal Assignments

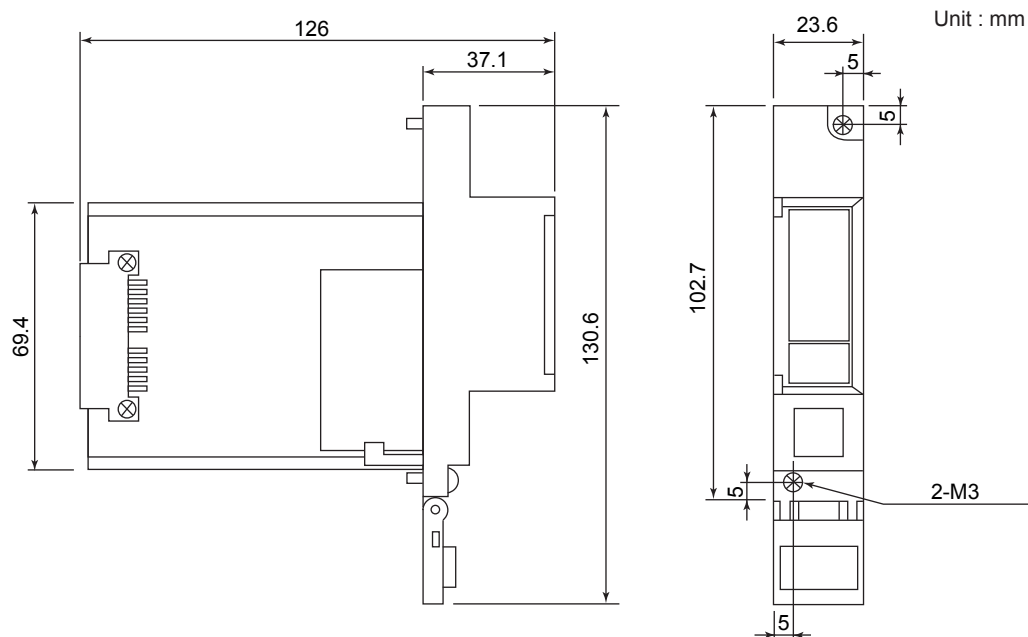


Terminal No.	Signal name
1	Alarm output 1 (NO/NC contact)
2	Alarm output 1 (COM)
3	Alarm output 2 (NO/NC contact)
4	Alarm output 2 (COM)

■ 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.