General Specifications

RY2
Wet Contact Relay Input Card

JUXTA

GS 77J06B02-01EN

■ GENERAL

This unit receives wet contact signal from the field and outputs 2 contact signals (1 for use of DCS status card input and the other is re-transmit contact signal) isolated electrically from the field. One unit stores 2 channels.

- Output contact consists of 2 contacts; 1 for DCS contact and the other for re-transmit contact (transfer contact) of current capacity 1 A.
- The circuits between wet contact input signal and output signal is isolated electrically isolated by means of photo-isolator.
- Furnished with test switch convenient for debugging of DCS or checking operation and LED for status display.

■ MODEL AND SUFFIX CODES

RY2-□□

Model
Wet contact relay input card (2 channels/card)

Input Signal
1: 100 V AC Wet voltage contacts (85 to 132 V AC)
2: 200 V AC Wet voltage contacts (170 to 264 V AC)
3: 24 V DC Wet voltage contacts (24 V DC±10%)
4: 100 V DC Wet voltage contacts (100 V DC±10%)
(Contact Marketing Dept when code 4 is required)

Test switch
0: No test switch
1: With test switch (AUT-OFF-ON)

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■ ORDERING INFORMATION

- Model and Suffix Codes: e.g. RY2-11

■ DEVICE SPECIFICATIONS

Structure: Nest storing type, connector connection structure card type, front by terminal and rear by connector. Terminal cover furnished.
Isolation: Between input - output 1 - output 2 - alarm terminal - power supply
(Isolation by photo isolator between input and relay circuit)
Power fuse: 0.5 A alarm fuse installed at power lines for relay
Alarm: Output of dry contact is generated from alarm terminals of nest when power fuse is OFF.
Test switch:
AUT: Output contact ON/OFF through external contact input
OFF: Output contact compulsorily OFF in case of a-contact.
ON: Output contact compulsorily ON in case of a-contact.
LED indication: Light on (green) when relay magnetized

■ I/O SPECIFICATIONS

Input signal: Wet voltage contact
Output signal: Relay contact, 2 points
(Output 1: DCS output
Output 2: Re-transmit signal output)
Contact rating:
Output 1: 30 V DC 0.2 A (both resistance and inductance loads)
Output 2: Resistance load: 125 V AC 0.4 A
30 V DC 1 A
Inductance load: 125 V AC 0.2 A
30 V DC 0.5 A
Maximum voltage used: 250 V AC/125 V DC
Relay contact protection: When driving inductance load, erase the noise to protect contact.

■ STANDARD PERFORMANCE

Insulation resistance: 100 MΩ (500 V DC) between CH1 input - CH2 input - [CH1•CH2 output 1•power supply] - CH1 output 2 - CH2 output 2 - alarm contact output
Voltage withstand: 1500 V AC/1 minute between CH1 input - CH2 input - CH1 output 2 - CH2 output 2 - [CH1•CH2 output 1•power supply] - alarm contact output
However, except between [CH1•CH2 output1•power supply] and alarm contact output.
500 V AC/ 1 minute between [CH1•CH2 output 1•power supply] - alarm contact output
Temperature: 0 to 50°C
Humidity: 5 to 90%RH (no condensation)
Power supply voltage: 24 V DC±10% (ripple content below 5% p-p)
Current dissipation: 24 V DC 50 mA

■ MOUNTING, SHAPE & ACCESSORIES

Mounting method: Store in exclusive nest (RYH or RYV)
Connection method:
Input: M3.5 screw terminal connection
Output 1 (DCS output): Connector connection
Output 2 (re-transmit output): M3.5 screw terminal connection
Alarm terminal: Connector connection
Power supply: Connector connection
Material of terminal screw: Nickel plated on iron (fastening torque below 8 kgf.cm)
External dimension: 108 (H) × 21.4 (W) × 129.6 (D) mm
Mass: About 150 g
Accessories: Tag number label 1

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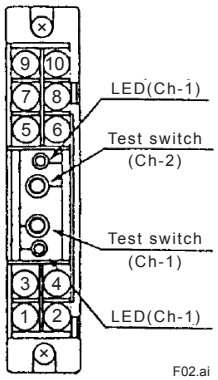
■ TERMINAL ARRANGEMENT

	Terminal No.	Signal
CH1	1	Contact input (–) (Field side)
	3	Contact input (+) (Field side)
	5	b-contact output
	7	a-contact output
	9	Common
CH2	2	Contact input (–) (Field side)
	4	Contact input (+) (Field side)
	6	b-contact output
	8	a-contact output
	10	Common



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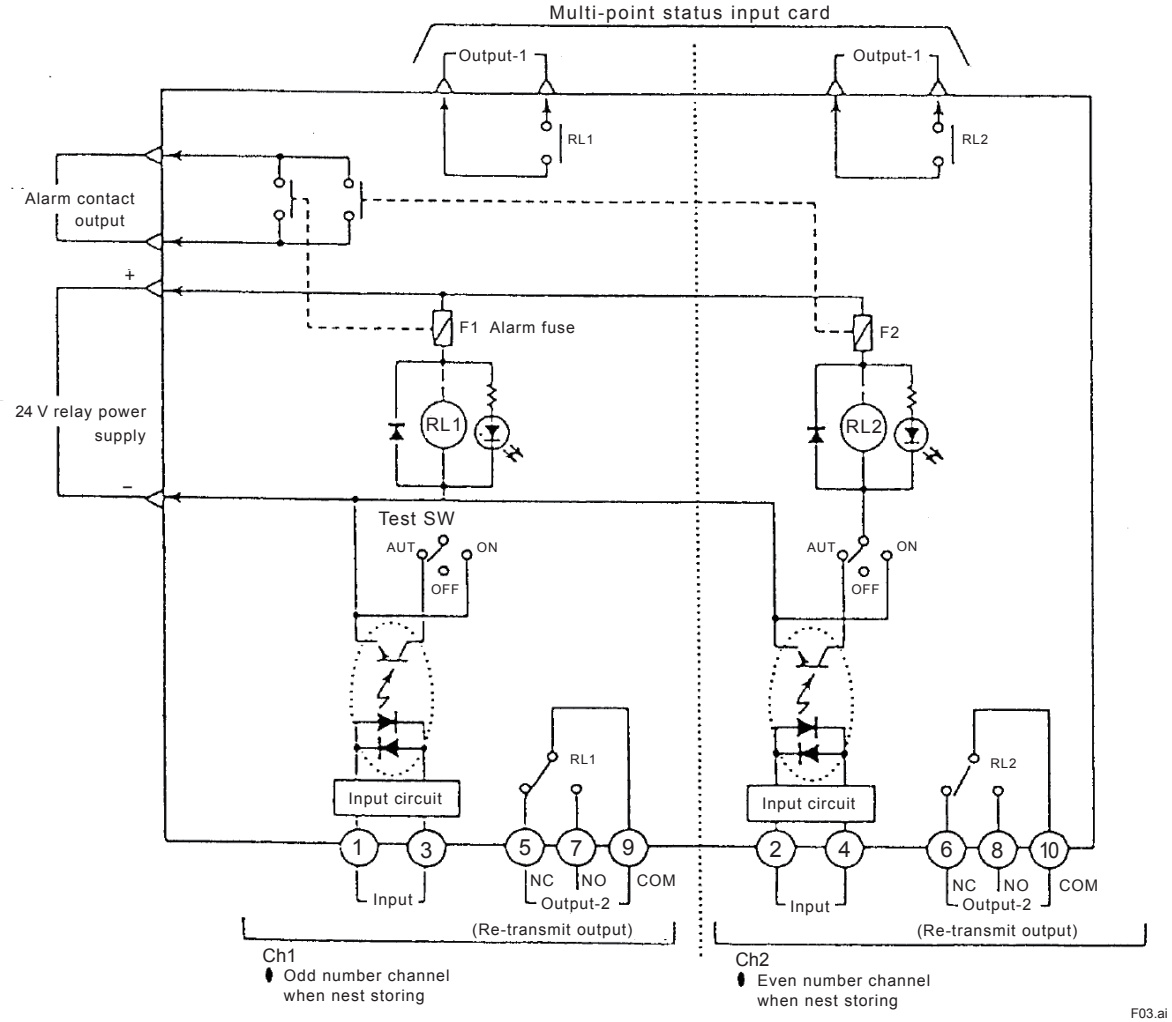
■ BLOCK DIAGRAM



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■ EXTERNAL DIMENSION

Unit: mm