General Specifications

RY8
Relay Output Card for motor start·stop

JUXTA

This nest storing type relay output card insulates DCS status output card and motor driving circuit and connects them through the relay.
This card receives contact signal from DCS and at switching time when OFF→ON of contact signal, motor start relay contact (Output-1) should be set at ON for certain period of time. And at switching time when ON→OFF of contact signal, motor stop relay contact (Output-2) should be set at ON for certain period of time.
Since one card stores 2 channels, start·stop of 2 motors can be done by one card.

- Output contact points consist of 2 contacts : 1 for motor start and the other for motor stop.
  - Output-1 : Dry voltage contact point output for motor start (a contact and b contact points change-over through jumper)
  - Output-2 : Dry voltage contact point output for motor start (transfer contact point)
- Furnished with test switch convenient for debugging of DCS or operation checking and LED for status display.
- Provided with jumper to connect internally both commons of motor start·stop relay contacts to simplify wiring. When common use is not needed, commons can easily be separated through internal jumper pin.

	Specifications
Structure	Nest storing card type to connect front by terminal and rear by connector. Terminal cover furnished.
Isolation	Between input·power supply～Output-1～Output-2 (Non-isolation between outputs when common jumper is connected)
Test switch	AUT (Output contact point ON/OFF through outer contact point input) OFF (Output contact point compulsorily OFF) in case of a contact. ON (Output contact point compulsorily ON) in case of a contact.
LED indication	Light on (orange) when input is ON or test switch is ON
	Input & Output
Input signal	Dry voltage contact point or open collector Outer contact point specs. : 24V DC, more than 30mA
Output signal	Relay contact : 2 points
Contact point rating	Resistance load : 250V AC 3.0A 30V DC 3.0A 125V DC 0.2A Inductance load : 250V AC 1.5A 30V DC 1.5A 125V DC 0.1A Max. working voltage : 250V AC/125V DC Min. applicable load : 5V DC 1mA When driving inductance load, erase noise to protect contact point.
Output ON time width	About 2 seconds (fixed)
	Standard Performance
Insulation resistance	100MΩ(500V DC) between [Input, power supply]～CH1 Output-1～CH2 Output-1～CH1 Output-2～CH2 Output-2～Alarm Terminal (Non-isolation between outputs at time when common is connected)
Voltage withstand	1500V AC/1 minute between [Input, power supply]～CH1 Output-1～CH2 Output-1～CH1 Output-2～CH2 Output-2～Alarm Terminal (except betweem CH1 Output-1～CH1 Output-2, CH2 Output-1～CH2 Output-2, [Input, power supply]～Alarm Terminal) 500V AC/1 minute between CH1 Output-1～CH1 Output-2, CH2 Output-1 ～CH2 Output-2, [Input, power supply]～Alarm Terminal (Non-isolation between outputs at time when common is connected)
Temperature range	0～50℃
Humidity range	5～90%RH (no condensation)
Power supply voltage	24V DC±10% (ripple content below 5% p-p)
Current dissipation	24V DC 60mA
	Mounting, Shape & Accessories
Mounting method	Store in exclusive use nest (RYH or RYV)
Connection method	Input : Connector connection Output-1, Output-2 : M3.5 screw terminal connection Alarm terminal : Connector connection 24V relay power supply : Connector connection
Material of terminal screw	Nickel plated iron (fastening torque below 0.8Nm)
External dimension	108 x 21.4 x 129.6 mm (HxWxD) [Weight Abt. 150g
Accessories	Tag number label 1

RY8-1□

Type
Relay output card for motor start/stop
(2 channels/card)
Input signal : Dry voltage contact point or open collector

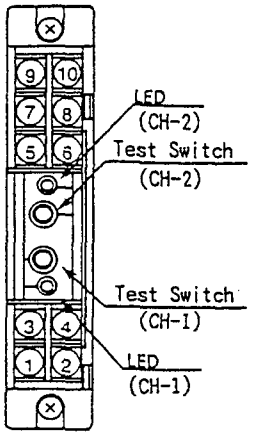
Relay output type
1 : Output-1 Output for motor start
a contact or b contact points (dry voltage contact) change-over by jumper
2 : Output-2 Output for motor stop
transfer contact point (dry voltage contact point)

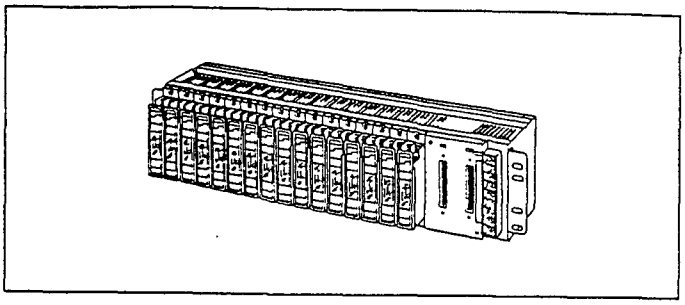
Test switch
0 : No test switch
1 : With test switch

ORDERING INFORMATION
(Example) Type Code : RY8-11

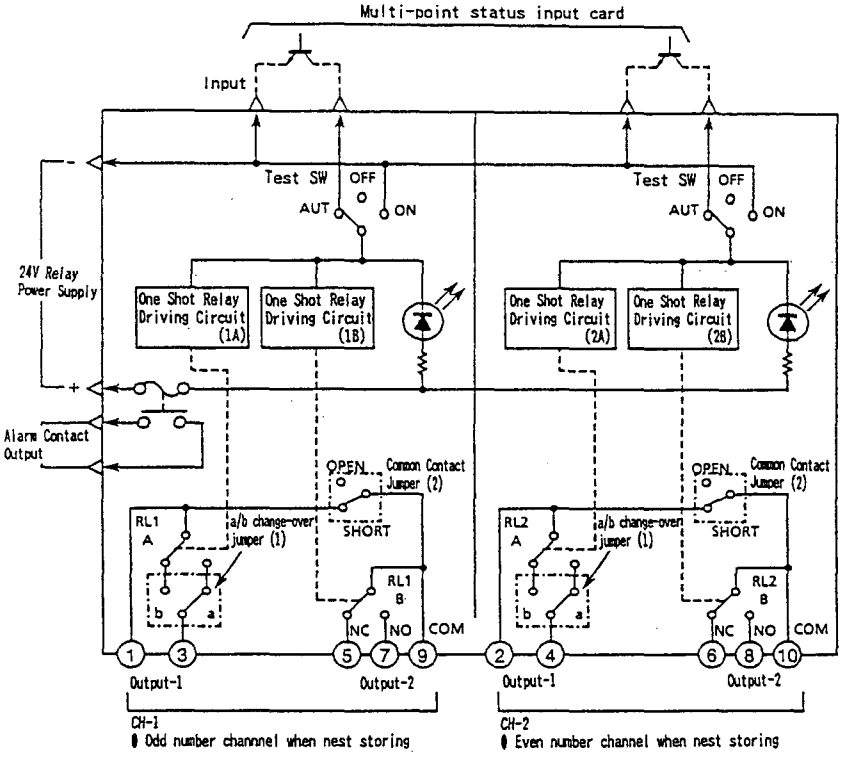
TERMINAL ARRANGEMENT

	Terminal No.	Signal
CH 1	1	Output-1 (output for motor start) Common
	3	a contact or b contact points
	5	Output-2 (output for motor stop) b contact output
	7	a contact point
	9	Common
CH 2	2	Output-1 (output for motor start) Common
	4	a contact or b contact points
	6	Output-2 (output for moltor stop b contact point output
	8	a contact point
	10	Common

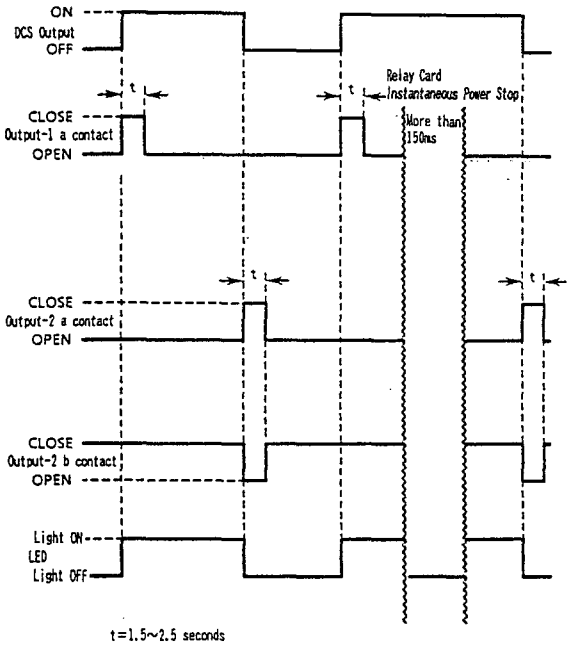




BLOCK DIAGRAM

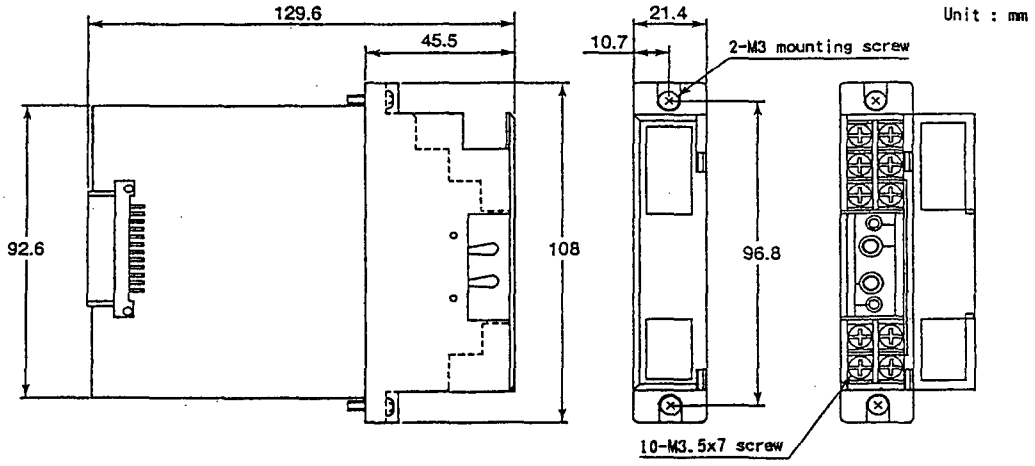


Action



(1) When shipment from factory, Output-1 a/b change-over jumper is in a contact point
(2) When shipment from factory, common connect jumper is in connecting status

EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance