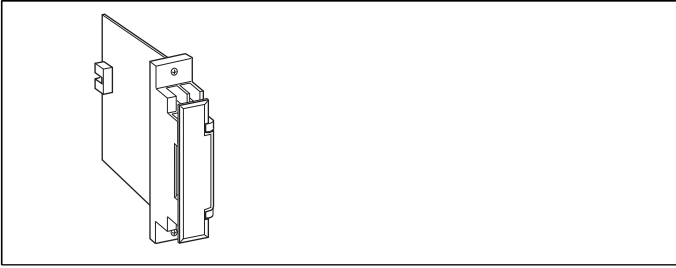


## DCS Input/Output Relay Card Series

### ONE-SHOT OUTPUT RELAY CARD



**MODEL: 38BSH2-R**

### ORDERING INFORMATION

- Code number: 38BSH2-R

### POWER INPUT

#### DC Power

R: 24 V DC

(Operational voltage range 24 V  $\pm$ 10 %, ripple 10 %p-p max.)

### RELATED PRODUCTS

- Standard Rack (model: 38BXx)

### GENERAL SPECIFICATIONS

**Construction:** Rack-mounted; terminal access via screw terminals on the front and connector on the rear; terminal cover provided

#### Connection

**Input:** Connector

**Output:** M3.5 screw terminals (torque 0.8 N·m)

**Power input:** Supplied from connector

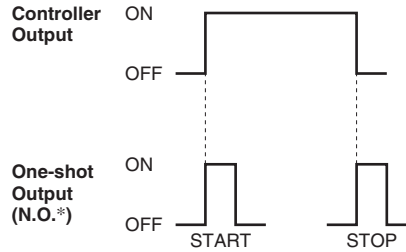
**Screw terminal:** Nickel-plated steel

**Isolation:** Input or power to each output

**Indicator LED:** Red LED turns on when the coil is energized.

### OPERATION

1. With the controller output (DCS status signal) turned OFF, the STOP one-shot is output when the power input is turned on.
2. With the controller output (DCS status signal) turned ON, the START one-shot is output when the power input is turned on.
3. LEDs indicate the output relay operations.



\*N.O. or N.C. selectable with jumpers.  
(J1, J2, J101 and J102)

### INPUT SPECIFICATIONS

**Input:** DCS status output

**Rating:** 24 V DC @ 3 mA (approx.)

$\leq 200 \Omega$  at ON;  $\geq 100 \text{ k}\Omega$  at OFF

**Minimum input interval:** 10 sec.

### OUTPUT SPECIFICATIONS

**Output:** Relay contact

**Rating:** 250 V AC @ 3 A (resistive load)

30 V DC @ 3 A (resistive load)

**Minimum switching load:** 5 V DC @ 10 mA

**One-shot pulse width:** 0.2 – 2 sec. (fixed)

#### Relay life

**Mechanical:**  $5 \times 10^7$  cycles

**Electrical:**  $10^6$  cycles

**External protection:** Recommended to protect the contact and to eliminate noise when driving an inductive load (coils, etc.)

### INSTALLATION

**Current consumption:** Approx. 50 mA

**Operating temperature:** -5 to +55°C (23 to 131°F)

**Operating humidity:** 30 to 90 %RH (non-condensing)

**Mounting:** Standard Rack 38BXx

**Weight:** 150 g (0.33 lb)

### PERFORMANCE

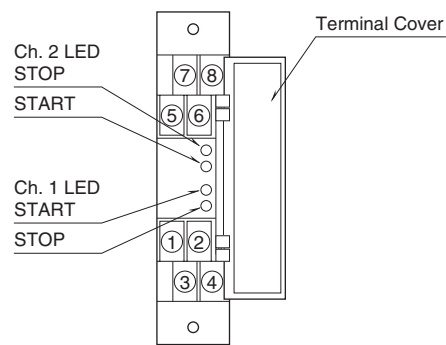
**Insulation resistance:**  $\geq 100 \text{ M}\Omega$  with 500 V DC

**Dielectric strength:** 1500 V AC @ 1 minute

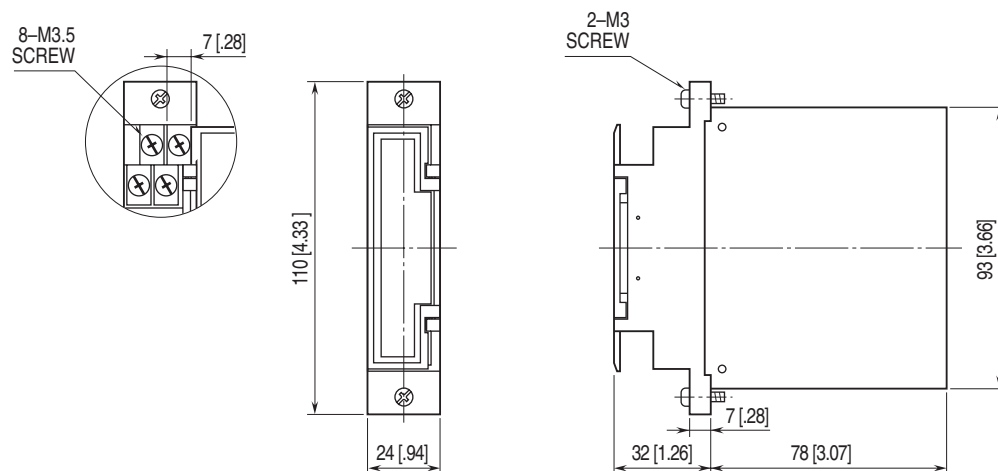
(input or power to output to ground)

1000 V AC @ 1 minute (between outputs; with output open)

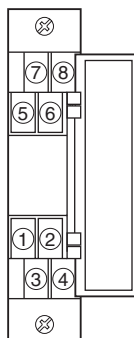
## EXTERNAL VIEW



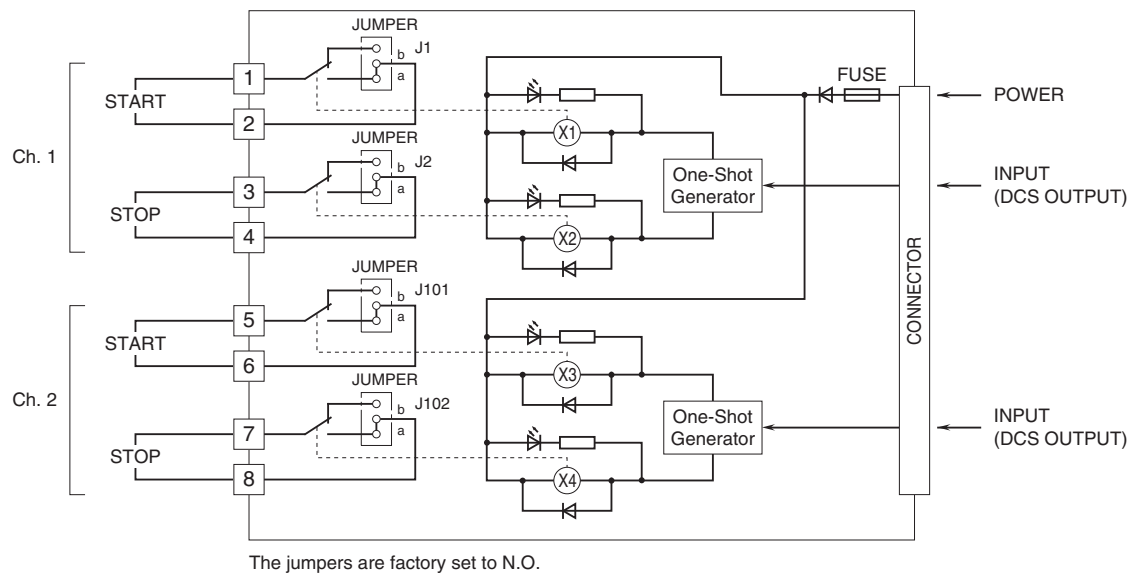
## EXTERNAL DIMENSIONS unit: mm [inch]



## TERMINAL ASSIGNMENTS



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.