

**DCS Input/Output Relay Card Series**

**ONE-SHOT OUTPUT RELAY CARD**

MODEL **38BSH2**

**MODEL & SUFFIX CODE SELECTION**

MODEL \_\_\_\_\_ **38BSH2-R**  
 POWER INPUT \_\_\_\_\_  
 R : 24V DC

**ORDERING INFORMATION**

Specify code number. (e.g. 38BSH2-R)

**RELATED PRODUCTS**

•Standard Rack (model: 38B□)

**GENERAL SPECIFICATIONS**

**Construction:** rack mounted; terminal access via screw terminals at the front and via connector at the rear; terminal cover provided

**Connection**

**Input:** connector  
**Output:** M3.5 screw terminals (nickel-plated steel; torque 0.8 N·m)  
**Power input:** supplied from connector  
**Isolation:** input or power to each output  
**LED:** light turns on with the coil energized

**INPUT & OUTPUT**

■**INPUT:** DCS status output  
**Rating:** 24V DC @3mA (approx.)  
 ≤200Ω at ON; ≥100kΩ at OFF  
**Minimum input interval:** 10 sec.

■**OUTPUT:** relay contact  
**Rating:** 250V AC @3A (resistive load)  
 30V DC @3A (resistive load)  
**Minimum switching load:** 5V DC @10mA  
**One-shot pulse width:** 0.2 – 2 sec. (fixed)  
**Relay life**

**Mechanical:** 5 × 10<sup>7</sup> cycles  
**Electrical:** 10<sup>6</sup> cycles

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

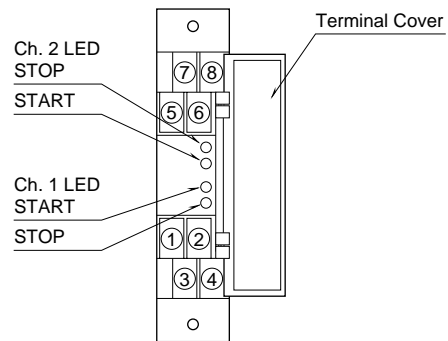
**INSTALLATION**

**Power input:** 24V DC ±10%, approx. 50mA (ripple 10% p-p max.)  
**Operating temperature:** -5 to +55°C (23 to 131°F)  
**Operating humidity:** 30 to 90% RH (non-condensing)  
**Mounting:** Standard Rack 38B□  
**Dimensions:** W24×H110×D110 mm (0.94"×4.33"×4.33")  
**Weight:** 150 g (0.33 lbs)

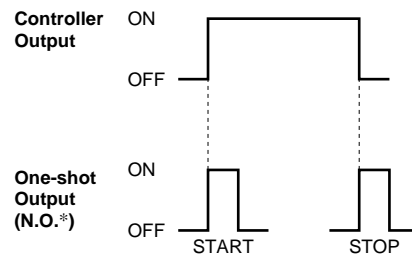
**PERFORMANCE**

**Insulation resistance:** ≥100MΩ with 500V DC  
**Dielectric strength:** 1500V AC @1 minute (input or power to output to ground)  
 1000V AC @1 minute (between outputs; with output open)

**FRONT VIEW**



**RELAY OPERATIONS**



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

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.

**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**

