

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.)
 $\leq 200\Omega$ at ON; $\geq 100k\Omega$ 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:** 5×10^7 cycles
 - Electrical:** 10^6 cycles
- External protection:** recommended to protect the contact and to eliminate noise when driving an inductive load (coils, etc.)

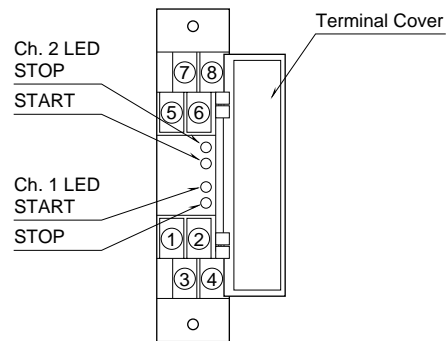
INSTALLATION

- Power input:** 24V DC $\pm 10\%$, 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)

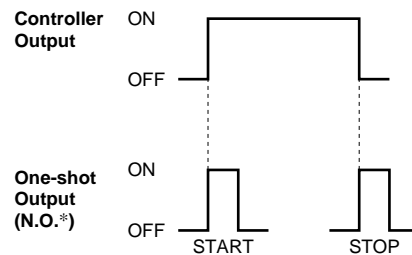
PERFORMANCE

- Insulation resistance:** $\geq 100M\Omega$ 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

