DCS Input/Output Relay Card Series

OUTPUT RELAY CARD

MODEL **38N-4**

DESCRIPTIONS

The 38N-4 is a DCS-front-end use relay card installed in a dedicated 19-inch rack, used to manually turn on/off a voltage contact output to directly drive devices such like electromagnetic valve, and to automatically turn it off by an external status contact from the DCS.

- Voltage output (LED turns on at output)
- Test switch useful for the DCS test running
- 0.5A fuse for the voltage output

MODEL & SUFFIX CODE SELECTION

38N–4

MODEL

OUTPUT CARD

4 : Manual ON / Auto OFF

ORDERING INFORMATION

Specify code number. (e.g. 38N-4)

RELATED PRODUCTS

- Standard rack (model: 38N-BY1, -BH1)

GENERAL SPECIFICATIONS

Construction: Rack mounted; terminal access via screw terminals at the front and via card-edge connector at the rear

Connection: M3.5 screw terminals and card-edge connector

Screw terminal material: Nickel-plated steel (torque 0.8 N·m)

Power input: Supplied via card-edge connector

Fuse for voltage output: 0.5A incorporated

Alarm: Dry contact output at the rack terminal when the fuse is blown.

Isolation: DCS output or external contact or power to power for voltage output or fuse alarm output

Indicator LED: Orange light turns on with the output ON

INPUT

■ **DCS OUTPUT**: Open collector

Coil rating: 24V DC @10mA (approx.)

■ **EXTERNAL CONTACT (EM valve control SW)**: Dry contact

Coil rating: 24V DC @20mA (approx.)

OUTPUT

■ **VOLTAGE CONTACT OUTPUT**

Rated load: 100V AC @0.5A (cosø=1)
30V DC @0.5A (resistive load)
Electrical life 10^5 cycles (rate 30/min.)

Maximum switching voltage: 125V AC or 30V DC

Maximum switching power: 50VA or 15W

Minimum load: 5V DC @10mA

Mechanical life: 5×10^7 cycles

External protection: Contact protection and noise quenching recommended when driving an inductive load (coil, etc.)

■ **FUSE ALARM OUTPUT**: Dry contact

Rated load: 50V AC @0.5A (cosø=1)
30V DC @0.5A (resistive load)
Electrical life 10^5 cycles (rate 30/min.)

Maximum switching voltage: 50V AC or 30V DC

Maximum switching power: 25VA or 15W

Minimum load: 5V DC @10mA

Mechanical life: 5×10^7 cycles

External protection: Contact protection and noise quenching recommended when driving an inductive load (coil, etc.)

INSTALLATION

Power input: Operational voltage range 24V DC ±10%, ripple 10% p-p max., approx. 40mA

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

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

Dimensions: W23×H149×D102 mm (0.91”×5.87”×4.02”)

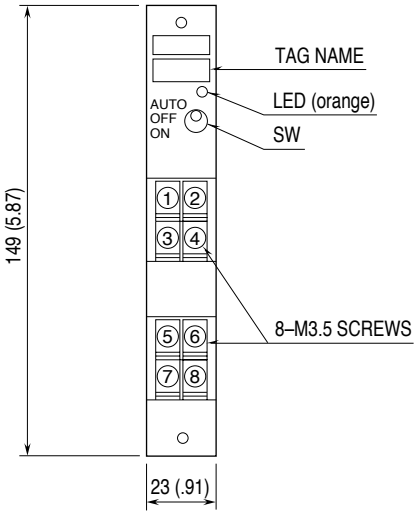
Weight: 150 g (0.33 lbs)

PERFORMANCE

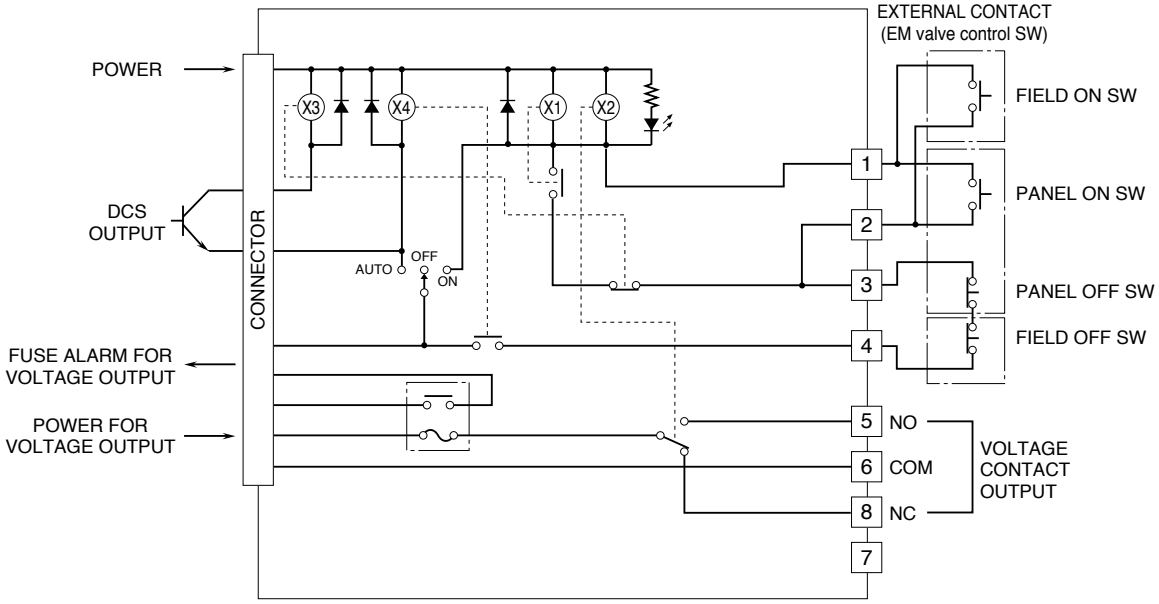
Insulation resistance: ≥100MΩ with 500V DC (DCS output or external contact or power to power for voltage output to fuse alarm output)

Dielectric strength: 1000V AC @1 minute (DCS output or external contact or power to power for voltage output to fuse alarm output)

FRONT VIEW



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



MG CO., LTD.
www.mgco.jp