### MAISYSTEM CO., LTD.

#### **DCS Input/Output Relay Card Series**

# OUTPUT RELAY CARD

## MODEL

#### 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<sup>5</sup> 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:  $5 \times 10^7$  cycles

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

■ FUSE ALARM OUTPUT: Dry contact

50V AC @0.5A (cosø=1) Rated load: 30V DC @0.5A (resistive load) Electrical life 10<sup>5</sup> 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:  $5 \times 10^7$  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:  $\geq 100 M\Omega$  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)

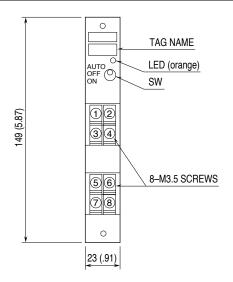


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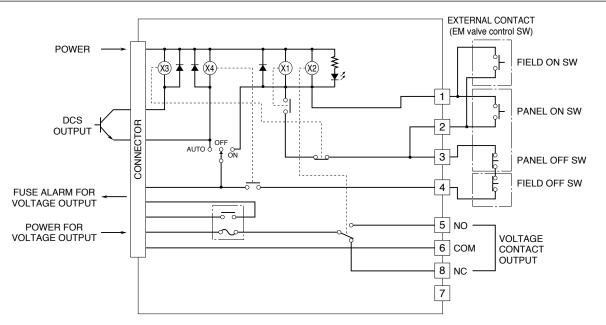
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38N-4

#### **FRONT VIEW**



### SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





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