MAISYSTEM CO., LTD.

DCS Input/Output Relay Card Series

38N-5

INPUT RELAY CARD

MODEL

DESCRIPTIONS

The 38N-5 is a DCS-front-end use relay card installed in a dedicated 19-inch rack, used to convert a field SW signal into a DCS input.

- Contact input
- Two re-transmitted outputs (dry contact and voltage contact)
- Test switch useful for the DCS debugging and test running
- 0.5A fuse for the voltage output

MODEL & SUFFIX CODE SELECTION

MODEL -

INPUT CARD -

5 : DCS input use

ORDERING INFORMATION

Specify code number. (e.g. 38N-5)

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 Input: M3.5 screw terminals DCS input: Card-edge connector Dry/voltage contact output: M3.5 screw terminals 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 input to power or external contact to re-transmitted output (dry contact) to re-transmitted output (voltage contact) or power for voltage output to fuse alarm output

Indicator LED: Orange light turns on with the output ON

INPUT

■ EXTERNAL CONTACT (field SW): Dry contact Contact detecting: 24V DC @30mA (approx.)

OUTPUT

■ DCS INPUT: Dry contact Minimum load: 5V DC @10mA

■ **RE-TRANSMITTED OUTPUT**: Dry contact

Rated load: 250V AC @3A (cosø=1) 30V DC @3A (resistive load) Electrical life 10⁵ cycles (rate 30/min.) Maximum switching voltage: 264V AC or 100V DC Maximum switching power: 750VA or 90W 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.)

■ **RE-TRANSMITTED OUTPUT**: Voltage contact

Rated load: 100V AC @0.5A (cosø=1) 30V DC @0.5A (resistive load)

Electrical life 10⁵ 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 10⁵ 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.)



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38N-5

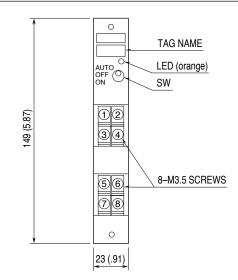
INSTALLATION

PERFORMANCE

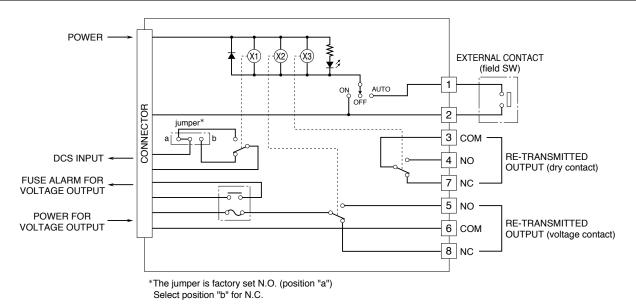
 $\label{eq:linear} \begin{array}{ll} \mbox{Insulation resistance:} \ge 100 M\Omega \mbox{ with } 500V \mbox{ DC (DCS input to power or external contact to re-transmitted output (dry contact) to re-transmitted output (voltage contact) or power for voltage output to fuse alarm output) \end{array}$

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

FRONT VIEW



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





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