

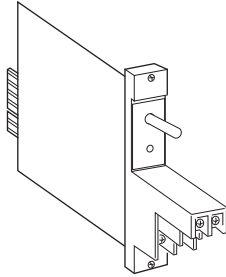
DCS Input/Output Relay Card Series

OUTPUT RELAY CARD

(high load current type)

Functions & Features

- Standard with a voltage output for driving electromagnetic valve and a relay contact (5 A)
- Test switch and LED help debugging and monitoring
- Fuse provided to each channel



MODEL: 38D2-5[1]

ORDERING INFORMATION

- Code number: 38D2-5[1]
Specify a code from below for [1].
(e.g. 38D2-51)

INPUT

Dry contact or open collector

OUTPUT

Relay contact and voltage

[1] TEST SWITCH

- 0: Non-lock switch
- 1: Lock switch

RELATED PRODUCTS

- Standard Rack (model: 38D2-B)

GENERAL SPECIFICATIONS

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

Connection

Input: Card-edge connector

Relay & voltage output: M3.5 screw terminals
(torque 0.8 N·m)

Power input: Supplied from card-edge connector

Screw terminal: Nickel-plated steel

Isolation: Input or power to output

Power fuse: 0.5 A incorporated

Alarm contact: Dry contact output at the alarm output terminals of the rack when the fuse is blown

Indicator LED: Red LED turns on when the coil is energized.

Test switch

AUTO: Relay energized at ON input

OFF: Forced relay de-energized

ON: Forced relay energized

INPUT SPECIFICATIONS

Input: Dry contact or open collector

Contact detecting: 24 V DC @ 45 mA

OUTPUT SPECIFICATIONS

■ **VOLTAGE OUTPUT:** 100 V AC or 24 V DC $\pm 10\%$

Load current: 0.5 A max. (8 A max. in the total of 16 cards)

Spark quenching diode: Close across the jumper pin on the PCB with voltage output

■ **RELAY CONTACT OUTPUT:** SPDT

Rating: 120 V AC or 24 V DC @ 5 A (resistive load)

Maximum switching rating: 250 V AC @ 2 A or 125 V DC @ 0.2 A (resistive load)

Relay life

Mechanical: 5×10^7 cycles

Electrical: 10^5 cycles (30 cycles/min.)

INSTALLATION

• **DC:** Operational voltage range 24 V $\pm 10\%$; ripple 10 % p-p max., approx. 45 mA

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

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

Mounting: Standard Rack 38D2-B

Weight: 100 g (0.22 lb)

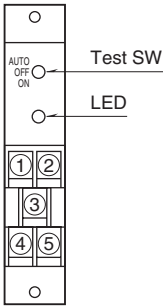
PERFORMANCE

Insulation resistance: $\geq 100\text{ M}\Omega$ with 500 V DC

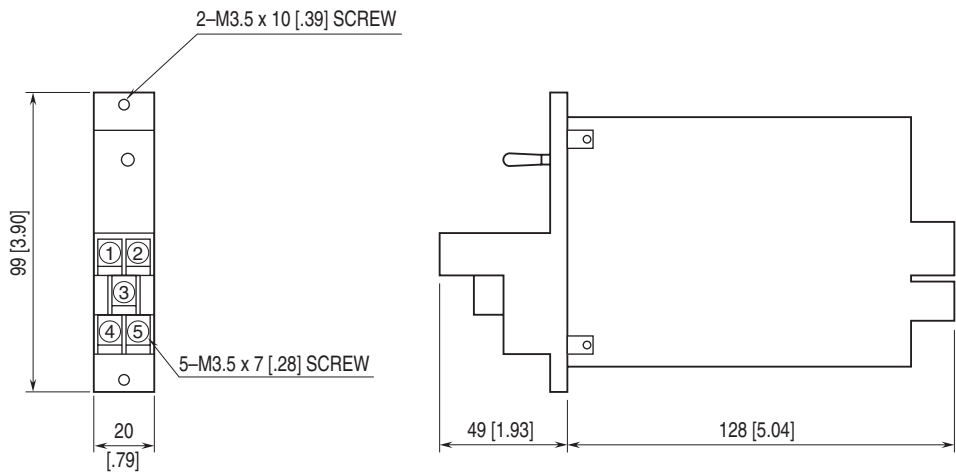
Dielectric strength: 1000 V AC @ 1 minute
(input or power to output)

2000 V AC @ 1 minute (output to ground)

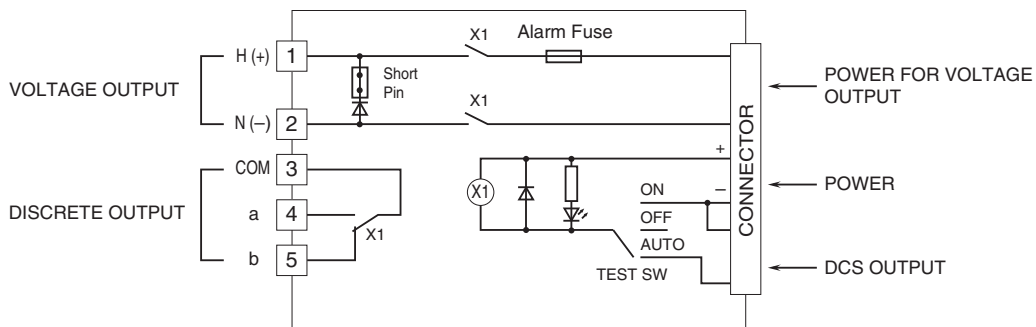
EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.