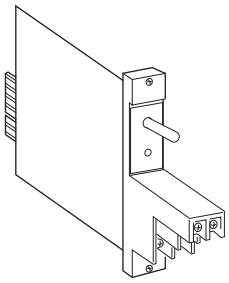
DCS Input/Output Relay Card Series

INPUT RELAY CARD

(high load current type)

Functions & Features

• Standard with a relay contact input and a re-transmitted output (5 A)
• Test switch and LED help debugging and monitoring
• Fuse provided to each channel



MODEL: 38D2-1[1]

ORDERING INFORMATION

• Code number: 38D2-1[1]
Specify a code from below for [1].
(e.g. 38D2-11)

INPUT

Dry contact or open collector

OUTPUT

Relay contact

[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: M3.5 screw terminals (torque 0.8 N·m)
Output to DCS: Card-edge connector
Re-transmitted 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 @ 35 mA

OUTPUT SPECIFICATIONS

■ **RELAY/RE-TRANSMITTED 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 ±10 %; ripple 10 % p-p max.,approx. 35 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: ≥ 100 MΩ with 500 V DC
Dielectric strength: 500 V AC @ 1 minute
(input or power to output)
500 V AC @ 1 minute* (output to ground)
*1000 V AC for 24 V DC power input with the 38D2-B

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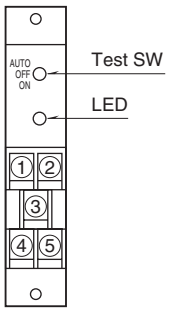
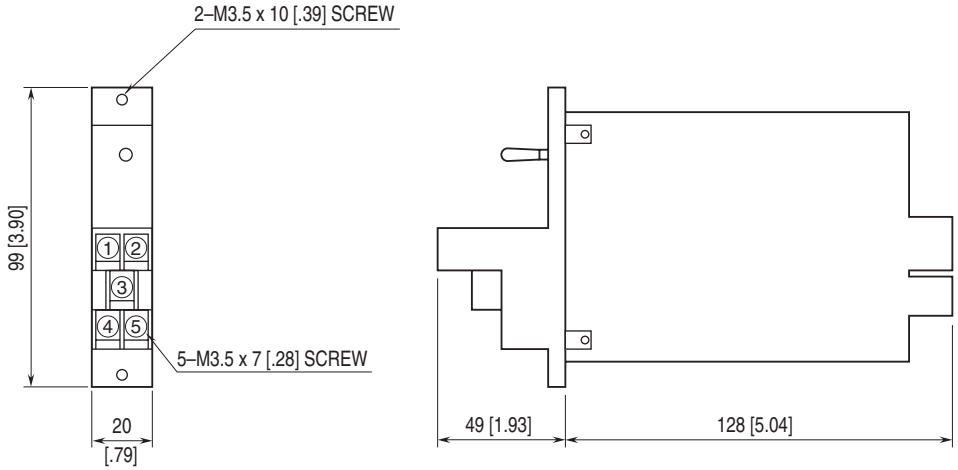
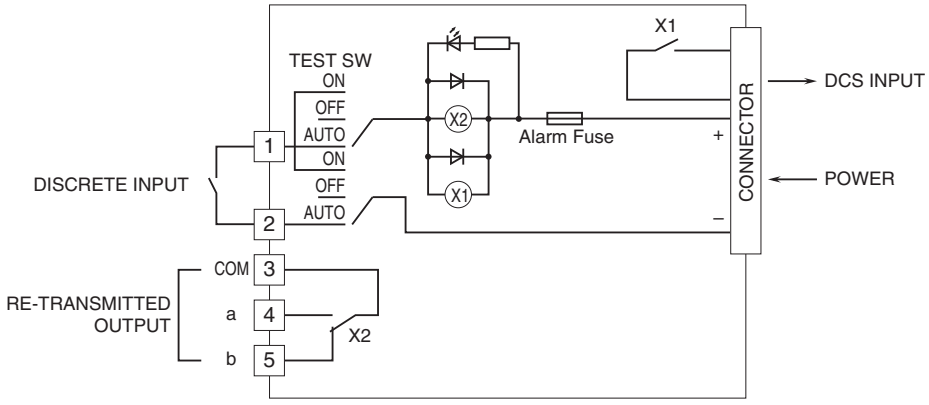
EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.

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