

D5099-108

Relay Out Module for 5 A Loads

The D5099-108 is a relay module, which makes available up to two SPDT (Single Pole Double Throw) contacts isolated from the input. Compatibility with specific DO cards with pulse testing needs to be verified.

FEATURES

- Up to 5 A functional / 6 A inrush current
- Both NO and NC contact available
- Low activation coil current (< 10 mA)
- Input/Output isolation
- High Density, two channels per unit

ORDERING INFORMATION

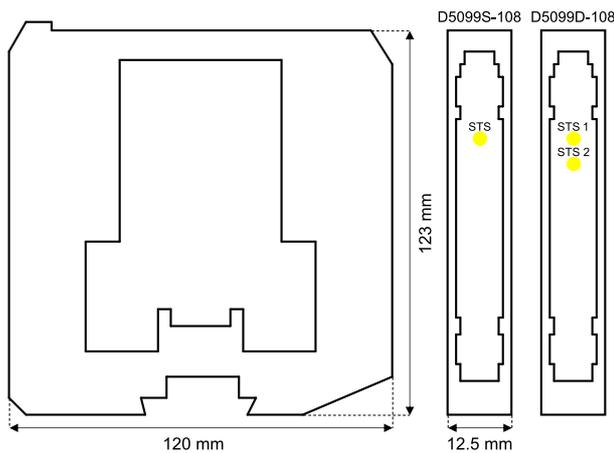
Ordering codes

D5099S-108: 1 channel
D5099D-108: 2 channels

Accessories

DIN-Rail stopper MCHP196.

OVERALL DIMENSIONS



TECHNICAL DATA

Input

24 Vdc nom (20.4 to 28.8 Vdc), reverse polarity protected. Relay coils are internally protected with suppressor diodes.

Current consumption: 10 mA/channel @ 24 Vdc, typical.

Power dissipation: 0.24 W/channel @ 24 Vdc, typical.

Output

A voltage-free SPDT relay Out 1: NO contact at terminals 7-8 and NC contact at terminals 7-11.

A voltage-free SPDT relay Out 2 (only D5099D-108): NO contact at terminals 9-10 and NC contact at terminals 9-12.

Terminals 7-8 (Out 1 NO contact) and 9-10 (Out 2 NO contact) are open when relay is de-energized, closed in energized relay condition.

Terminals 7-11 (Out 1 NC contact) and 9-12 (Out 2 NC contact) are normally closed when relay is de-energized, open in energized relay condition.

Contact material: Ag Alloy (Cd free), gold plated.

Contact rating: 5 A 250 Vac 1250 VA, 5 A 250 Vdc 140 W (resistive load).

Contact min. switching current: 1 mA.

Contact inrush current: 6 A @ 24 Vdc, 250 Vac.

DC and AC load breaking capacity: refer to Instruction Manual.

Mechanical / electrical life: 5 * 10⁶ / 3 * 10⁴ operation, typical.

Operate / release time: 6 ms / 12 ms, including contact bounce time, typical.

Isolation

Output/Input 1.5 kV; Input/Input 500 V; Output/Output 1.5 kV.

Environmental conditions

Operating temperature: temperature limits -40 to +70 °C.

Storage temperature: temperature limits -45 to +80 °C.

Mounting

DIN-Rail 35 mm, or on custom Term. Board.

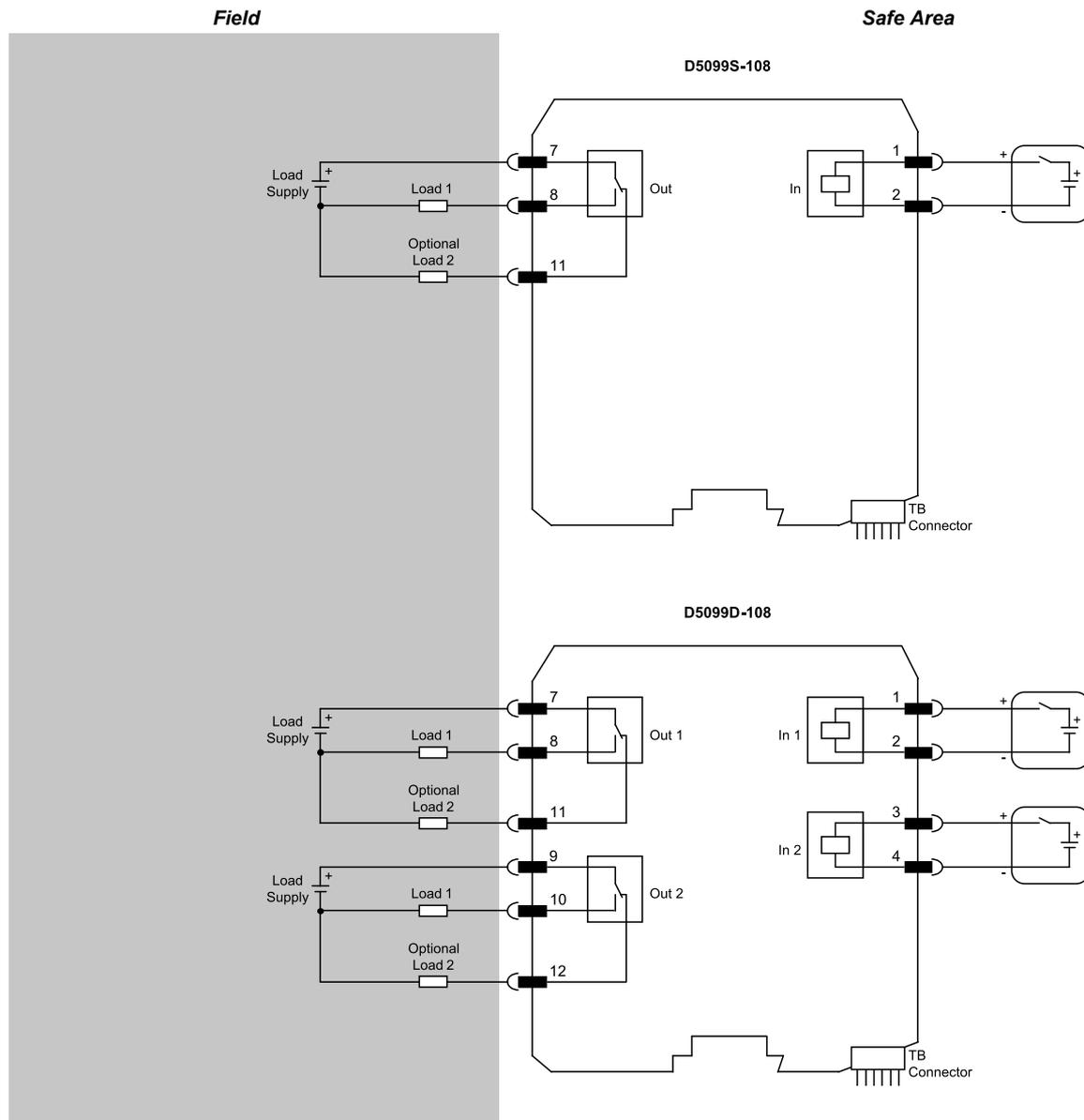
Weight: about 110 g (D5099S-108), about 120 g (D5099D-108).

Connection: by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm² (13 AWG).

Dimensions: Width 12.5 mm, Depth 123 mm, Height 120 mm.

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.



Functional Safety Management Certification: GM International is certified to conform to IEC61508:2010 part 1 clauses 5-6 for safety related systems up to and included SIL3. In addition, GM International products have been granted I.S. certificates from the most credited Notified Bodies in the world.

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