

D5291

SIL3 Relay Out Module for 10 A ND Loads

The D5291 is a relay module suitable for switching safety related circuits, up to SIL 3 level, for high risk industries. It provides isolation between input and output contacts. It makes available a NO and a NC contact for Normally De-energized (ND) loads, with either Normally De-energized or Normally Energized coil, and a contact for service purpose. A wide compatibility towards different DCS/PLC is guaranteed: driving pulse testing is permitted by a dedicated internal circuit, which prevents contact and LED flickering. This relay module is not suitable for low-current consumption applications (system-tosystem signalling, driving LEDs, etc.).

FEATURES

- SIL 3 / SC 3 for ND loads with ND/NE driver
- Installation in Zone 2/Div. 2
- Up to 10 A functional / 16 A inrush current
- Compatible with DCS/PLC pulse testing
- Service contact available
- Input/Output isolation

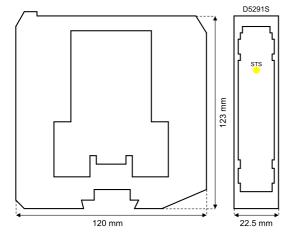
ORDERING INFORMATION

Ordering codes D5291S: 1 channel

Accessories

DIN-Rail stopper MCHP196.

OVERALL DIMENSIONS



TECHNICAL DATA

Input

24 Vdc nom (21.6 to 27.6 Vdc), reverse polarity protected. Relay coils are internally protected with suppressor diodes.

Current consumption: 60 mA @ 24 Vdc, typical. Power dissipation: 1.5 W @ 24 Vdc, typical.

Output

Voltage free SPDT relay contact. Terminals 13-14, open when relay deenergized, close in energized condition. Terminals 13-15, close when relay

de-energized, open in energized condition. Contact material: Ag Alloy (Cd free) or AgSnO2.

Contact rating: 10 A 250 Vac 2500 VA, 10 A 250 Vdc 300 W (resistive

load). Contact inrush current: 16 A @ 24 Vdc, 250 Vac.

DC and AC load breaking capacity: refer to Instruction Manual. Mechanical / electrical life: 10 * 10⁶ / 5 * 10⁴ operation, typical.

Operate / release time: 40 / 25 ms, typical.

Isolation

In/Out 2.5 kV

Environmental conditions

Operating temperature: temperature limits -40 to +60 °C. Storage temperature: temperature limits -45 to +80 °C.

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

Weight: about 165 g.

Connection: by polarized plug-in disconnect screw terminal blocks to

accommodate terminations up to 2.5 mm² (13 AWG). **Dimensions:** Width 22.5 mm, Depth 123 mm, Height 120 mm.

FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.

