

# D6040

## SIL3 Loop-Powered Digital Output Driver

The Loop-Powered Digital Output Driver D6040 is a module suitable for applications requiring SIL 3 level in safety related systems for high risk industries. It can drive solenoid valves, visual or audible alarms to alert a plant operator, or other process control devices. They can also be used as switchable supplies to power measuring or process control equipments. For each channel two basic output circuits are selectable, with different safety parameters, to interface the majority of devices on the market.

### FEATURES

- SIL 3 / SC 3
- 2 fully independent channels
- Loop powered for NE loads
- Output short circuit proof
- Two port isolation, Input/Output
- High Density, two channels per unit

### TECHNICAL DATA

#### Input

Loop powered control signal.

**Voltage range:** 24 Vdc nom (18 to 30 Vdc), reverse polarity protected.

**Current consumption:** 45 mA (D6040D) @ 24 Vdc with 30 mA outputs, 55 mA (D6040S) @ 24 Vdc with 40 mA output, typical.

**Power dissipation:** 0.75 W (D6040D) @ 24 Vdc with 35 mA outputs, 0.85 W (D6040S) @ 24 Vdc with 45 mA output, typical.

#### Output

**Short circuit current:**  $\geq 45$  mA (D6040S);  $\geq 35$  mA/channel (D6040D);  $\geq 70$  mA two outputs in parallel (D6040D).

**Response time:**  $\leq 75$  ms.

**Output diagram:** refer to Instruction Manual.

#### Isolation

Out/In 1.5 kV; Out/Out 500 V; In/In 500 V.

#### Mounting

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

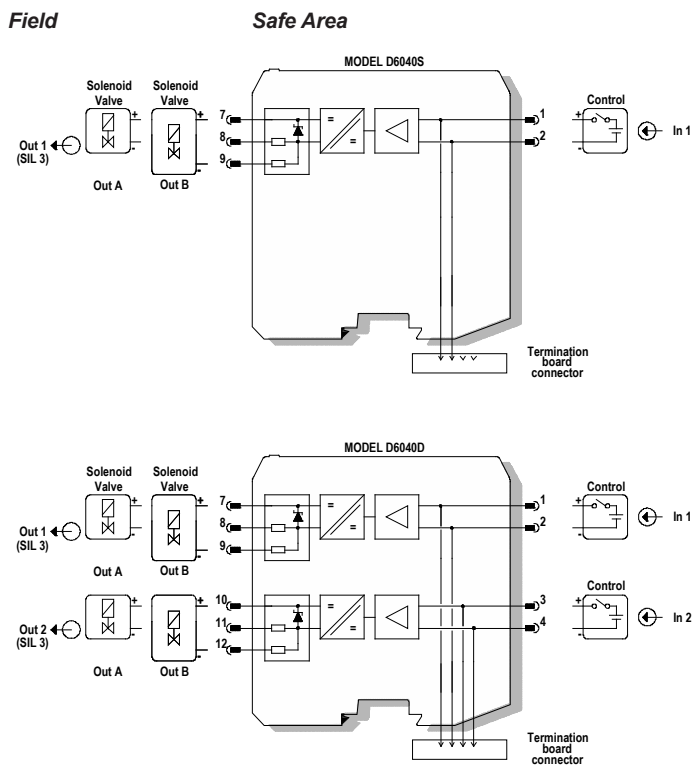
**Weight:** about 110 g.

**Connection:** by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm<sup>2</sup> (13 AWG).

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

### FUNCTION DIAGRAM

Additional installation diagrams may be found in Instruction Manual.



### ORDERING INFORMATION

D6040S: 1 channel

D6040D: 2 channels

#### Accessories

DIN-Rail stopper MCHP196.