

Model 2569

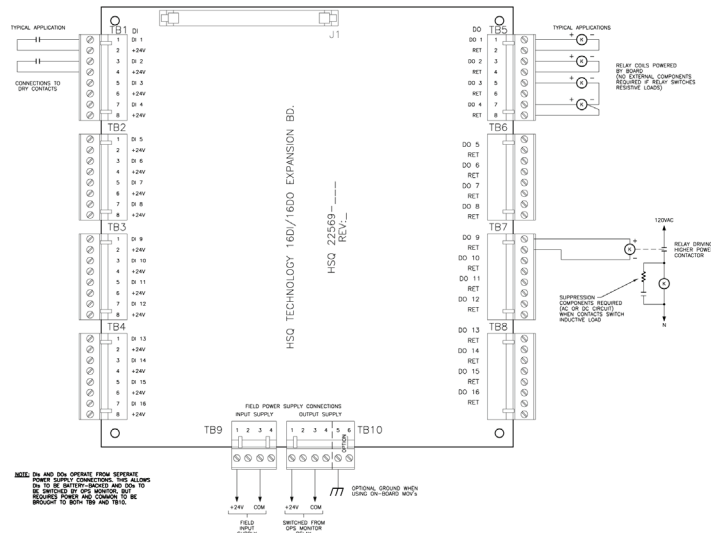
16-Channel Digital Input / 16-Channel Digital Output Expansion Board



Technical Summary

Key Features

- ◇ I/O Type: 16 Digital Input, 16 Digital Output
- ◇ Optical Isolation Between Logic and Field Voltages
- ◇ Four Layer Internal Ground Planes
- ◇ 200 mA per Channel



Model 2569 connection diagram

The HSQ Model 2569 board features sixteen +24 volt inputs and sixteen +24 volt outputs. The inputs accept DC voltage or connect to dry contacts. The outputs source 200 mA per channel and have a suppression diode for driving inductive loads. The board has internal voltage and ground planes. Each section (input circuitry, output circuitry, and logic circuitry) is optically separated, providing noise, transient resistance, and full galvanic isolation. This board is designed for use with the HSQ 25x86 Logic Processor.

SPECIFICATIONS

Channels

- **Digital Input:** 16 per board, inputs accept +24 V_{DC} or dry contacts; LEDs are lit when inputs are active
- **Digital Output:** 16 per board, outputs source 200 mA each @ 60° C; LEDs are lit when outputs are active

Protection

- **Optical Isolation:** 2500 V_{AC} RMS between logic and field voltages
- **Grounding:** 4 layer PCB with internal ground planes
provisions for connecting optional protective devices and grounding

General

- **Power:** +5 V_{DC} through the expansion bus, 220 mA (350 mA maximum)
+24 V_{DC} from isolated field supplies
Inputs: 5 mA per active input
Outputs: (11 mA plus load) per active output (plus output current)
- **Connections:** Plug-in type terminal blocks for up to 12 AWG wire for I/O (4-Channels with associated signal returns or voltage source per 8-position connector) and for field voltages (4-position connectors)

Environment

- **Operating Temperature:** 0° – 60° C (32° – 140° F)
- **Humidity:** 5 – 95% RH (non-condensing)
- **Dimensions:** 191 x 203 x 25 mm (7.5 x 8 x 1 in.)