

# Model 2533

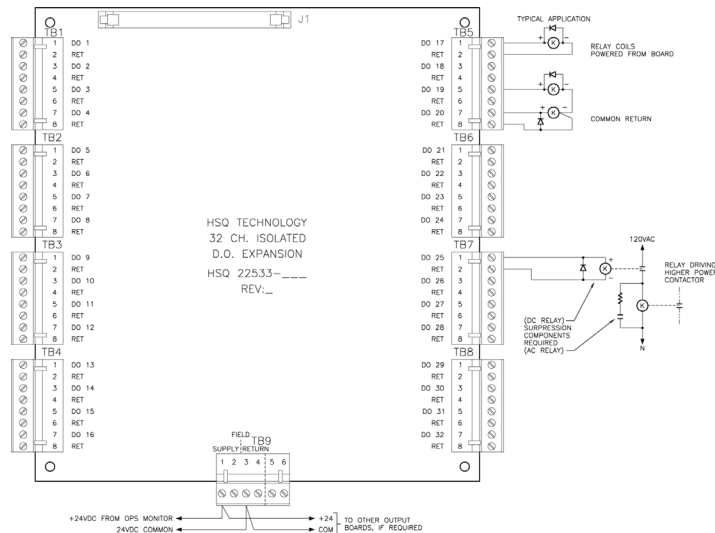
## 32-Channel Isolated Digital Output Expansion Board



## Technical Summary

### Key Features

- ◇ I/O Type: 32 Digital Outputs
- ◇ 200 mA per Channel
- ◇ Optical Isolation Between Field and Logic Circuits



Model 2533  
connection diagram

The HSQ Model 2533 board features 32 fully isolated outputs, each of which is capable of sourcing 200 mA at 60° C. Each channel is equipped with a suppression diode for driving inductive loads. There is a provision for adding an optional multi-layer, ceramic transient voltage suppressor to each output for high voltage surge protection. This board is designed for use with the HSQ 25x86 Logic Processor and is addressed, read, and controlled through that unit's expansion bus via ribbon cable.

### SPECIFICATIONS

#### Digital Output

- **Channels:** 32 per board, 200 mA per channel @ 60° C

#### Protection

- **Optical Isolation:** 2500 V<sub>AC</sub> RMS between field and logic circuits

#### General

- **Power:** +24 V<sub>DC</sub> from isolated field supply  
+5 V<sub>DC</sub>, 120 mA, typical (380 maximum) plus 20 mA (maximum) per channel plus output current
- **Connections:** Plug-in type terminal blocks for up to 12 AWG wire for outputs (four outputs with returns per eight position connector)  
50-conductor ribbon header from expansion bus connection

#### Environment

- **Operating Temperature:** 0° – 60° C (32° – 140° F)
- **Humidity:** 5 – 95% RH (non-condensing)
- **Dimensions:** 184 x 203 x 19 mm (7.25 x 8 x .75 in.)