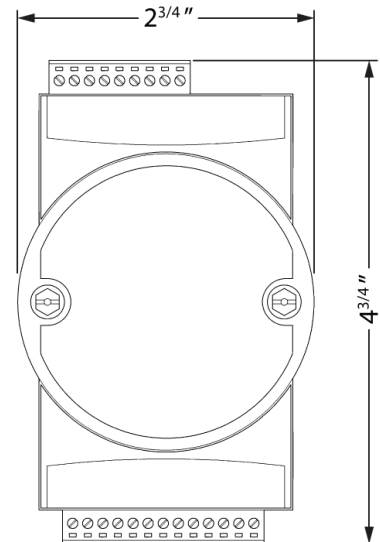


### Key Features

- ◇ I/O Type: Six Digital Input, Six Relay (Form A)
- ◇ Optical Isolation: 2000 VRMS
- ◇ 10/100 Mbps Base-T Ethernet Communication
- ◇ Keep/Discard Counter Value when Power-Off
- ◇ Pulse Output Support



The HSQ-6060 offers six relay (form A) output and six digital input channels. It supports a contact rating of 120 volts AC at 0.5 amps and 30 volts DC at 1 amp.

### SPECIFICATIONS

#### Digital Input

- **Channels:** 6
- **Dry Contact:** Logic level 0: close to GND  
Logic level 1: open
- **Wet Contact:** Logic level 0: 0 – 3 V<sub>DC</sub>  
Logic level 1: 10 – 30 V<sub>DC</sub>
- **3 kHz Counter Input Support (32-bit + 1-bit Overflow)**
- **3 kHz Frequency Input Support**
- **Inverted DI Status Support**

#### Relay Output (Form A)

- **Channels:** 6
- **Contact Rating (Resistive):** 120 V<sub>AC</sub> @ 0.5 A  
30 V<sub>DC</sub> @ 1 A
- **Breakdown Voltage:** 500 V<sub>AC</sub> (50/60 Hz)
- **Relay On Time:** 7 ms
- **Relay Off Time:** 3 ms
- **Total Switching Time:** 10 ms
- **Insulation Resistance:** 1 GΩ minimum @ 500 V<sub>DC</sub>
- **Maximum Switching Rate (at rated load):** 20 operations per minute

#### General

- **Power Consumption:** 2 W @ 24 V<sub>DC</sub>
- **Connectors:** Plug-in screw terminal block (I/O and power)
- **Watchdog:** System (1.6 second) and Communication (programmable)
- **Power Input:** 10 – 30 V<sub>DC</sub>

#### Protection

- **Isolation Protection:** 2,000 V<sub>DC</sub>
- **Power Reversal Protection**

#### Environment

- **Operating Temperature:** -10° – 70° C (14° – 158° F)
- **Storage Temperature:** -20° – 80° C (-4° – 176° F)
- **Humidity (Operating):** 20 – 95% RH (non-condensing)
- **Humidity (Storage):** 0 – 95% RH (non-condensing)

