

HSQ-6051

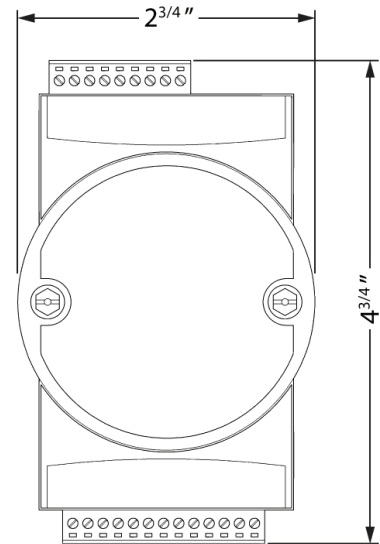
Isolated 14-Channel Digital Input/Output, 2-Channel Counter Input Module



Technical Summary

Key Features

- ◇ I/O Type: Twelve Digital Input, Two Counter Input, Two Digital Output,
- ◇ 5 kHz Counter
- ◇ 10/100 Mbps Base-T Ethernet Communication
- ◇ Keep/Discard Counter Value when Power-Off



The HSQ-6051 module provides 12 digital inputs, two digital outputs, and two counter inputs with 2000 VRMS isolation protection. This mixed-function module also has a built-in Ethernet port.

SPECIFICATIONS

Digital Input

- **Channels:** 12
- **Dry Contact:** Logic level 0: close to GND
Logic level 1: open
- **Wet Contact:** Logic level 0: 0 – 3 V_{DC}
Logic level 1: 10 – 30 V_{DC}
- **3 kHz Counter Input Support (32-bit + 1-bit Overflow)**
- **3 kHz Frequency Input Support**
- **Inverted DI Status Support**

Counter Input

- **Channels:** 2
- **Mode:** Counter, Frequency
- **Maximum Count:** 4,294,967,295
(32-bit + 1-bit overflow)
- **Input Frequency:** Frequency Mode: 0.2 – 4500Hz
Counter Mode: 0 – 4.5 kHz

Digital Output

- **Channels:** 2 (Sink Type), open collector to 30 V, 100 mA maximum load
- **High-to-Low and Low-to-High Delay Output Support**
- **5 kHz Pulse Output**

General

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

Protection

- **Isolation Protection:** 2,000 V_{DC}
- **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)



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