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Find the *Curtiss-Wright / ACRA Control KAD/DSI/003/B/00* at our website: *Click HERE*

KAD/DSI/003/B

24-ch. bi-level input module with counters and time tagging



FEATURES

- 24 differential-ended (D/E) discrete bi-level input channels
- 8 x 32-bit counters (period, frequency, events and so on)
- FIFO-based time tagging
- Programmable[1] threshold
- Programmable[1] hysteresis (for slow slew rate, high noise applications)
- Programmable[1] falling/rising edge detect (for counters only)

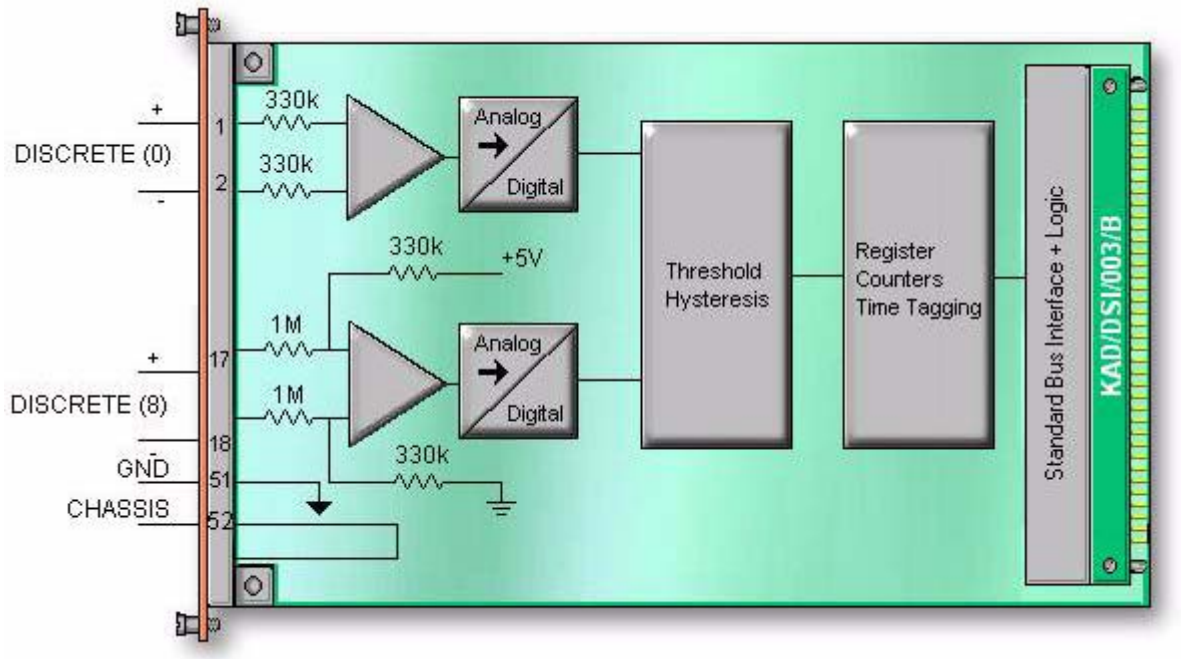
1. Programmable for each channel separately

DESCRIPTION

The KAD/DSI/003/B is used to monitor the status (high/low) of up to 24 differential ended (D/E) discrete channels. Eight of these have alternative functions as programmable counters, of which four can be configured as resettable event counters. Another 16 channels can be used to trigger time-tagged events. All 24 discrete signals are sampled simultaneously and can be read as a 16-bit +8-bit word or as a 12-bit + 12-bit word. The KAD/DSI/003/B uses 24 separate 14-bit A/Ds operating continuously at 111ksps to sample each input thus enabling the threshold and hysteresis to be programmed separately for each channel.

The eight counters can be programmed as period, frequency, events_since_last_read, events or elapsed time. The range of each counter is programmable as is the threshold, hysteresis sensitivity to the rising/falling edge and roll-over. If the counter uses more than 16 bits, they are treated as two words.

The 16 channels control the time tagging to the 8K FIFO. For each input time tagging can be triggered by a rising and falling edge or neither (when the channel is disabled). Every time a trigger occurs a 64-bit word is written to the FIFO consisting of the 16 inputs (after the change) and the BCD time that the event happened (up to 23 hours 59 minutes 59.99 9999 seconds).



First of 24 discrete inputs (first of 8 counter inputs)

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