



Machine Sequencing

In product conveyor installations, conveyor-belt lines and other transport systems such as those encountered in printing plants, synchronization errors may occur. This type of error interferes with correct system operation and may cause severe malfunctions between 2 consecutive lines or quality problems at the end of the conveyor.

There is a machine sequence linked to each element in the conveyor line (belt, etc.). This is a predefined string of commands for executing the various operations: start, stop, time-out, etc.

To analyse and correct synchronization problems in the sequencing, a multi-channel event logger is used. The Simple Logger II L404 is equipped with four logger channels. This means it can record and display up to 50,000 events over the whole length of the process. The recorded data can be downloaded and viewed as a graphic, presenting the chronology of events for each signal in pulse form. Each channel is shown with a common time base for analysis of the time measurements and sequencing.

Synchronization

Maintenance

Counting

Recording

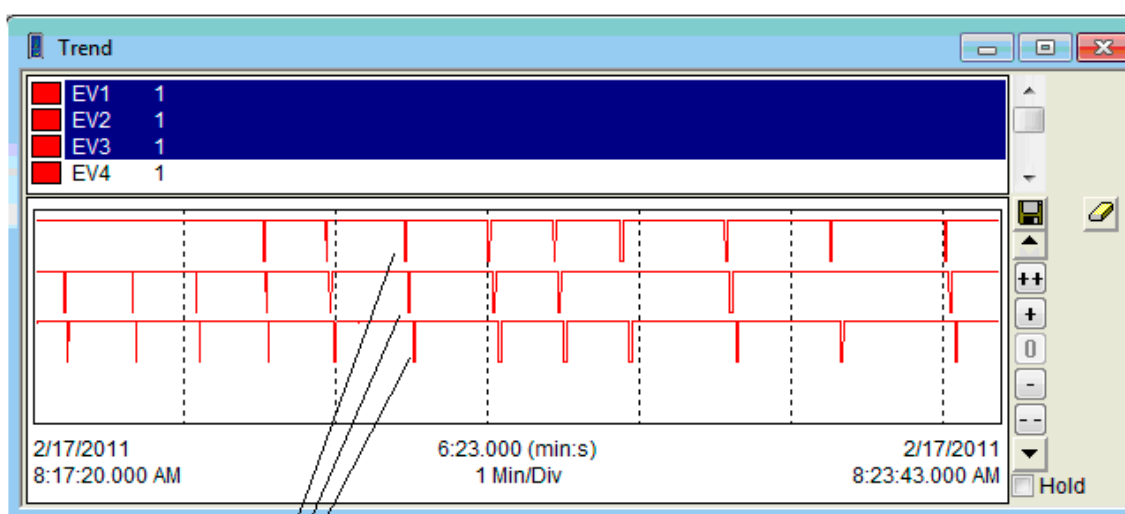
This enables you to identify errors in the settings for the times and time-outs and the associated step or command. In this way, the configuration of the command control for the contactors or logical circuits can be corrected.

With the Simple Logger II L404 event logger, users can obtain an overview of all the data used to:

- determine the operating times and machine downtimes
- determine the scheduling of the events
- count and record the events
- log the duration of each event

All these analyses can be performed very quickly with the DataView® processing and analysis software.

The DataView® analysis screen below shows the chronology of the different event sequences recorded on each channel by the Simple Logger II L404.



Event sequence timing



Other features of the Simple Logger II L404 :

- 4 input channels
- Operates with dry contact closure or the logical levels 0-3 and 0-5 VDC
- Programmable acquisition rate from 8 per second to 1 per day
- 5 LED indicators for quick, clear display of the logger's status
- Delivered with the DataView® software for data storage, real-time measurement display, analysis and report generation
- With isolated USB communication cable and batteries

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