

A Versatile Stimulus Timing Protocol: Set Number of Trains; Set Number of Bursts in a Train and Set Number of Pulses in a Burst

Overview

At first glance this application look quite complicated (!), however, it is essentially three separate pulse generating "units" providing the outputs at (A), (B) and (C) linked together to provide an extremely versatile system for pulse protocols. The sequence is initiated by switching the upper

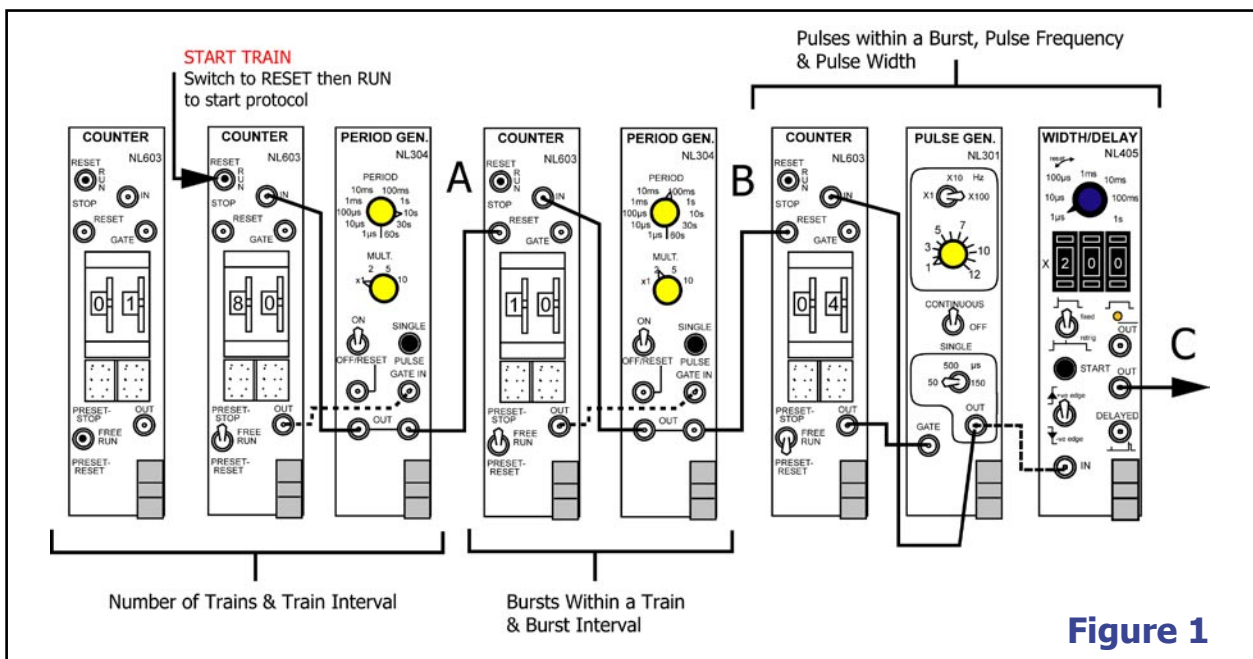


Figure 1

toggle switch on the second **NL603 COUNTER** to "RESET" and then onto "RUN". This pair of counters determine the number of trains passed (here set at 180, but with a maximum of 9999) while the **NL304 PERIOD GENERATOR** gives the interval between trains (here set at 10s).

The third counter determines the number of bursts within each train (10), while the interval between bursts is set by the second NL304 (200ms). Finally, the number of pulses within a burst (4) is set on the last counter, pulse frequency (100Hz) is set on the **NL301 PULSE GENERATOR** and pulse width (200µs) is controlled by the settings on the **NL405 WIDTH/DELAY**.

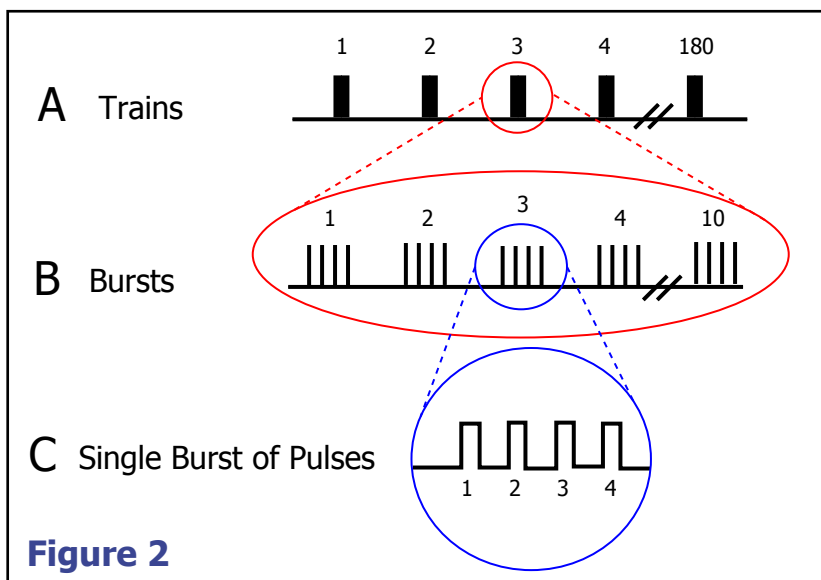


Figure 2