

LC07: Decimal Delay Generator

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Features

- 10gt to 19gt variable delay
- SS5-14 input
- Not random activation timings safe

Applications

- Slot iterator device for dynamic bulk code mappings storage.

General Description

The LC07 Decimal Delay Generator takes a decimal input and outputs a pulse after a delay of 10 to 19 game ticks. The delay is equal to the input signal strength plus 5. The device can be used to generate precise extraction trigger signal for a 1 slot/gt iterator device.



Figure 1: Decimal Delay Generator

Device Specifications

Table 1: Inputs

Name	Range	Description
Decimal input	5-14	Determines length of delay. Delay is signal strength $+5gt$
Input trigger	Pulse	Starts the delay generator

Table 2: Outputs

Name	Range	Description
Delayed trigger	Pulse	Delayed output pulse

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	22	-	-	gt	Normal Usage
Delay	10	-	19	gt	From input to dropper activation.
MC Version	1.16	1.19.3	-	MCV	Latest version at time of writing: 1.20.4
Dimensions	4 x 5 x 2			Blocks	

Testing Data

Table 4: Executed Tests

Test	Result
Delay test	Device was able to produce all delays ranging from 10 to 19 gt as determined by the input signal strength.
Failed random timings test	Device was unable to survive random activation timings. A slider became stuck in the wrong state.

Download Information

Table 5: Download Information

Identifier	MC	File	Description
LC07	1.19.3	LC07_Decimal_Delay_Generator.litematic	Schematic of device. Test input regions included.