

LC05: Stateless Find Nearest

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Tags: logic-and-computation

Features

- Stateless, uses quasi-based logic
- Will not output more than one group at a time, even with random slice activation/deactivation timings

Applications

- Box groupers

General Description

The LC05 find nearest dispenser outputs items from first filled dropper in line with each pulse. With an 8gt clock this will have an additional 8gt transition delay between groups. Items can be inserted during operation and the thing won't output multiple groups at same time by accident.

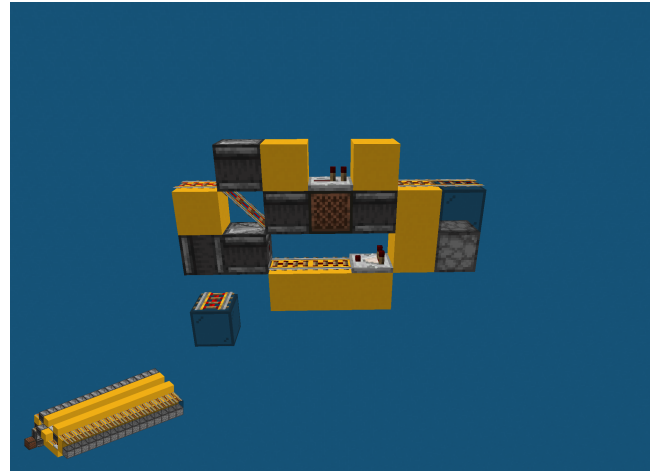


Figure 1: Stateless Group Dispenser

Device Specifications

Table 1: Inputs

Name	Range	Description
Clock signal	Pulse	Outputs an item with each pulse.

Table 2: Outputs

Name	Range	Description
Item Output	Item	Output item from first dropper in line.

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	8	-	-	gt	Normal Usage
Latency	6	-	-	gt	From input to dropper activation.
MC Version	1.13	1.17.1	-	MCV	Latest version at time of writing: 1.19.3
Dimensions	3 x 4 x 8			Blocks	

Testing Data

Table 4: Executed Tests

Test	Result
Throughput test	Device was able to function with 8gt clocked input.

Download Information

Table 5: Download Information

Identifier	MC	File	Description
LC05	1.17.1	LC05_stateless_find_nearest.litematic	Schematic of device.