

MODE SELECTOR:

Specification:

This component will detail the current mode that the bike light is in. It holds the state in-component, and will alternate cyclically between the 4 modes of OFF, ON, BLINKING, DIM. The device will switch upon a conditioned input.

Inputs:

Conditioned Input: C_INPUT

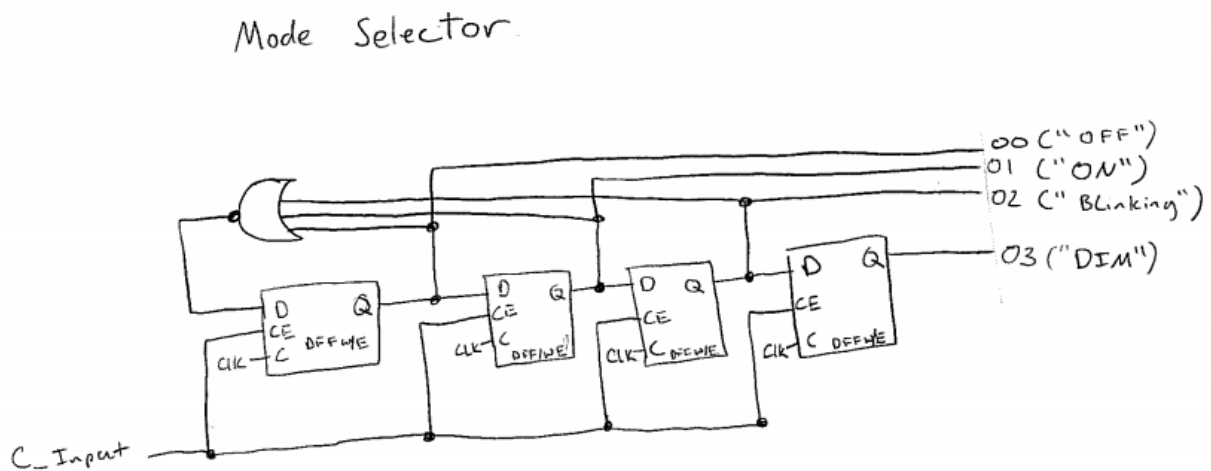
Clock: CLK

Outputs:

Four OUTPUT enable wires for OFF, ON, BLINK, DIM.

Schematic:

Use Pre-Baked Component 4 stage Ring Counter Schematic as shown below:



Performance:

Subcomponent	Cost per	#Used	Total
DFF w/E	20	4	80
3NOR	3	1	2

Total GIE: 82