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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Состояние | State0 | State1 | State2 | State3 |
| Двоичный код состояния S(1),S(0) | 00 | 01 | 10 | 11 |
| CNT | 0 | 1 | 1 | 0 |
| DLY\_EN | 0 | 1 | 0 | 1 |

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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| COUNT | DLY\_OVF | S1(t) | S0(t) | S1(t+1) | S0(t+1) | SN(1) | SN(0) | Описание события |
| 0 | x | 0 | 0 | 0 | 0 | 0 | 0 | Ожидание нажатия кнопки |
| 1 | X | 0 | 0 | 0 | 1 | 0 | 1 | Нажатие кнопки |
| X | 0 | 0 | 1 | 0 | 1 | 0 | 1 | Ожидание окончания счета |
| X | 1 | 0 | 1 | 1 | 0 | 1 | 0 | Конец счета |
| 1 | X | 1 | 0 | 1 | 0 | 1 | 0 | Ожидание отпускания |
| 0 | X | 1 | 0 | 1 | 1 | 1 | 1 | Отпускание кнопки |
| X | 0 | 1 | 1 | 1 | 1 | 1 | 1 | Ожидание окончания счета |
| x | 1 | 1 | 1 | 0 | 0 | 0 | 0 | Конец счета |

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Для SN(1)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | S1, S0 | | | |
| C,D | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 1 | 1 |
| 01 | 0 | 1 | 0 | 1 |
| 11 | 0 | 1 | 0 | 1 |
| 10 | 0 | 0 | 1 | 1 |

Для SN(0)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | S1, S0 | | | |
| C,D | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 1 | 1 |
| 01 | 0 | 0 | 0 | 1 |
| 11 | 1 | 0 | 0 | 0 |
| 10 | 1 | 1 | 1 | 0 |