**2. Circuito de sistema de Encendido de Direccionales**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **1. Black-Box** | |  |  |  |  |  |  |  |  |  |  |  |
| Palanca sistema de encendido de direcionales  A  Reloj   |  | | --- | | I | | | | | | | | | | | | | |  |
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| **2. Diagrama de estados** | | |  |  |  |  |  |  |  |  |  |  |
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| **3. # F-F's y tipo** | |  |  |  |  |  |  |  |  |  |  |  |
| 2^k=#estados | |  |  |  |  |  |  |  |  |  |  |  |
| k=#F-F's |  |  |  |  |  |  |  |  |  |  |  |  |
| k=2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Tipo=D |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **4. Asignación de números binarios** | | | |  |  |  |  |  |  |  |  |  |
|  | Sn | # binario |  |  |  |  |  |  |  |  |  |  |
|  | S0 | 00 |  |  |  |  |  |  |  |  |  |  |
|  | S1 | 01 |  |  |  |  |  |  |  |  |  |  |
|  | S2 | 10 |  |  |  |  |  |  |  |  |  |  |
|  | Error | 11 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

**5. Tabla de Excitación**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | Qb | Qa | Sn | Sn+ | Qb+ | Qa+ | Db | Da |
| 0 | 0 | 0 | S0 | S2 | 1 | 0 | 1 | 0 |
| 0 | 0 | 1 | S1 | S0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | S2 | Error | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | S3 | Error | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | S0 | S1 | 0 | 1 | 0 | 1 |
| 1 | 0 | 1 | S1 | Error | 1 | 1 | 1 | 1 |
| 1 | 1 | 0 | S2 | S0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | S3 | Error | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |
| Db: | (A xor Qa)' + Qb.Qa | | | |  |  |  |  |
| Da: | (A xor Qb) + A.Qa | | | |  |  |  |  |