Initial state

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 0 |
| Lens lamp sorter | 0 |
| Engine conveyer | 0 |
| Engine feeder | 0 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 0 |

Resting state

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp | 0 |
| Lens lamp | 0 |
| Engine conveyer | 0 |
| Engine feeder | 0 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 1 |
| Timer start | 0 |

Running state

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 2 + Belt |

TimS (Ru, SS = 1)

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Belt |

Ru1

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 0 |

MU

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Sort |

MU2

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Sort |

MD

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Sort |

MU’

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 0 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 0 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Sort |

MU2’

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 0 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 0 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Sort |

MD’

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 0 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 0 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Sort |

1 with PS = 1

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 0 |

TimS

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 0 |

TS2 (SS = 1)

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 0 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 0 |
| Engine sorter | 1 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Belt |

Abort (A)

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 0 |
| Lens lamp sorter | 0 |
| Engine conveyer | 0 |
| Engine feeder | 0 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 0 |

Ru3

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | 2 + Belt |

After tick

|  |  |
| --- | --- |
| Outputs | Value for output |
| Lens lamp position | 1 |
| Lens lamp sorter | 1 |
| Engine conveyer | 1 |
| Engine feeder | 1 |
| Engine sorter | 0 |
| Display | 0 |
| LED state indicator | 0 |
| Timer start | Belt |

|  |  |  |  |
| --- | --- | --- | --- |
| Initial state | Input | Input value | State |
| I | Push | 1 | R |
| R | SS | 1 | Ru |
| Ru | Timer | TEnd | I |
| Ru | PS | 1 | Ru2 |
| Ru | Abort | 1 | A |
| Ru | SS | 1 | TimS |
| Ru2 | Timer | TEnd | I |
| Ru2 | PS | 1 | Ru3 |
| Ru2 | CD | 1 | MU |
| Ru2 | SS | 1 | TimS |
| Ru2 | Abort | 1 | A |
| Ru3 | Tic | 1 | Ru2 |
| MU | PB | 1 | MU2 |
| MU | SS | 1 | TS2 |
| MU2 | SS | 1 | TS2 |
| MD | SS | 1 | TS2 |
| MU | Abort | 1 | A |
| MU2 | Abort | 1 | A |
| MD | Abort | 1 | A |
| MU2 | Timer | SORT | MD |
| MD | Timer | Motor Down | Ru2 |
| MU’ | PB | 1 | MU2’ |
| MU’ | Abort | 1 | A |
| MU2’ | Timer | SORT | MD’ |
| MU2’ | Abort | 1 | A |
| MD’ | Timer | Motor Down | After tick |
| MD’ | Abort | 1 | A |
| TimS | Tic | 1 | After tick |
| After tick | CD | 1 | MU’ |
| After tick | Abort | 1 | A |
| After tick | Timer | TEnd | I |
| TS2 | Timer | Tic | MU’ |
| A | SS | 1 | I |