|  |  |
| --- | --- |
| Output | The range/type of the value |
| Start/Stop button | Boolean value |
| Abort button | Boolean value |
| Push button(sensor) | Boolean value |
| Colour detector | Boolean value |
| Position detector | Boolean value |
| Timer | Values range from seconds to clock ticks |

For the machine design

**Outputs**

|  |  |
| --- | --- |
| Input | The range/type of the value |
| Lens lamp 1 | Boolean value |
| Lens lamp 2 | Boolean value |
| Conveyer engine | Between 6 and 9 V (Volts) while running 0 V when not running |
| Feeder engine | Between 3 and 7 V while running  0 V when not running |
| Sorter engine | Between 6 and 9 V while running  0 V when not running |
| Display | Integer value, positive |

**Inputs**

|  |  |  |
| --- | --- | --- |
| Inputs | The range/type of the value | Abbreviation |
| Start/Stop button | Boolean value | In 0 |
| Abort button | Boolean value | In 1 |
| Push button(sensor) | Boolean value | In 5 |
| Colour detector | Boolean value | In 6 |
| Position detector | Boolean value | In 7 |
| Timer | Values range from seconds to clock ticks | Tim |

For the software specifications

**Inputs**

**Outputs**

|  |  |  |
| --- | --- | --- |
| Output | The range/type of the value | Abbreviation |
| Lens lamp 1 | Boolean value | Out 2 |
| Lens lamp 2 | Boolean value | Out 6 |
| Conveyer engine | Between 6 and 9 V (Volts) while running 0 V when not running | Out 7 |
| Feeder engine | Between 3 and 7 V while running  0 V when not running | Out 3 |
| Sorter engine | Between 6 and 9 V while running  0 V when not running | Out 0-1 |
| Display | Integer value, positive | Disp |