Totally Integrated Automation Portal	

Project / PLC_2 [CPU 319-3 PN/DP] / Program blocks

PICK_UP_BASE_ROBOT [FB6]

PICK_UP_BASE_ROBOT Properties								
General								
Name	PICK_UP_BASE_ROBOT	Number	6	Type	FB	Language	LAD	
Numbering	Automatic							
Information								
Title		Author		Comment		Family		
Version	0.1	User-defined ID						

PICK_UP_BASE_ROBOT									
Name	Data type	Offset	Default value	HMI/OPC UA	able	HMI engi-		Supervi- sion	Comment
Input									
Output									
InOut									
Static									
Temp									
Constant									

Network 1: BASE_PICKUP_ROBOT_LOWERING_Z_AXIS

Network 2: BASE_PICKUP_OPERATE_SUCCTION

```
%M0.0
                               %Q1.1
                                                           %15.2
                                                                                       %I1.0
                                                                                                                   %Q1.3
"state_of_
start_base"
                          "base_pickup_
x_axis"
                                                      "BASE_MOVE_
Z_SENSOR"
                                                                                  "base_gripper_
detected"
                                                                                                             "base_sucction_
gripper"
                                                            \exists \, \mathsf{N} \, \mathsf{F}
                                                                                                                    -( s )-
                                                           %M2.1
                                                        "DUMMY4"
                                                                                                                   %Q1.2
                                                                                                             "base_pickup_
z_axis"
                                                                                                                    -( R )-
```

Network 3: PICK_UP_BASE_GO_TO_FEEDING

```
%M0.0
                           %I1.0
                                                  %Q1.1
                                                                         %Q1.2
                                                                                                 %Q1.3
                                                                                                                         %I5.2
                                                                                                                                                %Q1.1
"state_of_
start_base"
                      "base_gripper_
detected"
                                              "base_pickup_
x_axis"
                                                                     "base_pickup_
z_axis"
                                                                                                                     "BASE_MOVE_
Z_SENSOR"
                                                                                                                                            "base_pickup_
x_axis"
                                                                                            "base_sucction_
                                                                                               gripper"
                                                                                                                                                 -( s )-
                                                                                                                         %M2.0
                                                                                                                       "DUMMY3"
```

Network 4: LID_PICK_UP_LOWERING_Z_AXIS_IN_FEEDING

```
%I5.1
  %M0.0
                       %Q1.3
                                            %Q1.2
                                                                                      %Q1.2
"state_of_
start_base"
                                                              "BASE_MOVE_
X_SENSOR"
                                                                                   "base_pickup_
z_axis"
                   "base_sucction_
                                         "base_pickup_
                                            z_axis"
                      gripper"
                                                                  \neg
                                                                                        -( s )-
                                                                  %M1.7
                                                                "DUMMY2"
```

Network 5: LID_RETURN_TO_ORIGIN_PICKUP

Totally Integrated **Automation Portal** %I5.2 "BASE_MOVE_ Z_SENSOR" %M0.0 "state_of_ start_base" %Q1.1 "base_pickup_ x_axis" %I1.1 "start_base_ raw_feeding" %Q1.2 "base_pickup_ z_axis" N | %M1.6 "DUMMY1" **%Q1.1**"base_pickup_x_axis" **%M0.1**"state_of_
start_LID" _(R)_ %Q1.3 "base_sucction_ gripper" —(R)—