|--|

# sorting colo by robot arm / PLC\_1 [CPU 1211C DC/DC/DC] / Program blocks

## Main [OB1]

| Main Properties |                               |                 |   |         |    |          |     |  |  |
|-----------------|-------------------------------|-----------------|---|---------|----|----------|-----|--|--|
| General         |                               |                 |   |         |    |          |     |  |  |
| Name            | Main                          | Number          | 1 | Туре    | ОВ | Language | LAD |  |  |
| Numbering       | Automatic                     |                 |   |         |    |          |     |  |  |
| Information     |                               |                 |   |         |    |          |     |  |  |
| Title           | "Main Program Sweep (Cy-cle)" | Author          |   | Comment |    | Family   |     |  |  |
| Version         | 0.1                           | User-defined ID |   |         |    |          |     |  |  |

| Main           |           |               |                                       |  |  |  |  |  |
|----------------|-----------|---------------|---------------------------------------|--|--|--|--|--|
| Name           | Data type | Default value | Comment                               |  |  |  |  |  |
| <b>▼</b> Input |           |               |                                       |  |  |  |  |  |
| Initial_Call   | Bool      |               | Initial call of this OB               |  |  |  |  |  |
| Remanence      | Bool      |               | =True, if remanent data are available |  |  |  |  |  |
| Temp           |           |               |                                       |  |  |  |  |  |
| Constant       |           |               |                                       |  |  |  |  |  |

#### Network 1:

```
#FC9000

"MHJ-PLC-Lab-Function-S71200"

EN ENO
```

#### Network 2: X

```
%IO.0 %IO.1 %MO.0
"START" "STOP" "X"

%MO.0
"X"
```

### Network 3:

```
%M0.0
"X"
                        %I0.4
"SENSOR 1"
                                                   %I1.0
"DETECT 1"
                                                                             %I0.6
"SENSOR 3"
                                                                                                        %I1.1
"DETECT 2"
                                                                                                                                  %Q0.0
"BELT 6M 1"
                                                       <del>-</del>1/1-
                                                                                  <del>-</del>//-
                                                                                                             <del>-</del>1/1-
                                                                                                                                      → >
                        %I0.4
"SENSOR 1"
                                                   %I1.0
"DETECT 1"
                                                                                                        %Q0.3
"BELT 4M 1"
                                                       <del>-</del>//-
                                                                                                            \prec \succ
                                                   %I1.1
"DETECT 2"
                       %I0.6
"SENSOR 3"
                                                                                                       %Q0.4
"BELT 4M 2"
                                                                                                           →
                                                                                                           %Q0.5
                                                                                                          "WHEEL"
```

## Network 4:

```
%M0.0
"X"
                                                                                                       %Q0.1
"BELT 6M 2"
 %M8.4 "Tag_12"
%Q1.0
"MOVE X1"
                           %Q1.4
"GRAB 1"
   H۱L
                              <del>-</del>|/|-
  %M8.3
 "Tag_11"
                                                                                                       %Q0.2
"BELT 6M 3"
  %M0.0
   \dashvP\vdash
                                                                                                           _( s )____
  %M8.5
 "Tag_13"
%Q1.1
"MOVE X2"
                          %Q1.5
"GRAB 2"
  \dashv \bowtie \vdash
                              <del>-</del>1/1-
  %M6.0
 "Tag_20"
```

```
Totally Integrated
   Automation Portal
Network 5:
                                                                                     %I0.5
"SENSOR 2"
                                                                                                                                                                        %Q0.1
"BELT 6M 2"
                                                                                        \dashvP\vdash
                                                                                                                                                                           -( R )-
                                                                                       %M8.1
"Tag_9"
                                                                                     %10.7
"SENSOR 4"
                                                                                                                                                                        %Q0.2
"BELT 6M 3"
                                                                                       —| P |—
%M8.2
                                                                                                                                                                           —( R )—
                                                                                      "Tag_10"
Network 6:
                                                                                                                                                                      %Q0.6
"WHEEL RIGHT"
                                                                                   %I0.2
"BLUE SENSOR"
Network 7:
                                                                                   %I0.3
"GREEN SENSOR"
                                                                                                                                                                       %Q0.7
"WHEEL LEFT"
Network 8: ARM 1
                                                                                                                                                                        %M0.2 "M1 move z1"
                                                                                     %I0.4
"SENSOR 1"
                                                                                         \dashvP\vdash
                                                                                       <mark>%M7.6</mark>
"Tag_6"
                                                                                                                                                                         %Q1.4
"GRAB 1"
                                                                                                                                                                           -( s )-
Network 9:
                                                                                    %I1.4
"MOVING Z1"
                                                                                                          %I0.4 "SENSOR 1"
                                                                                                                                                                           %M0.2
                                                                                                                                                                        "M1 move z1"
                                                                                                                                                                            -( R )-
                                                                                        H۱۲
                                                                                       %M7.0
"Tag_1"
Network 10:
                                                                                                                              %I0.4
"SENSOR 1"
                                                                                                           %Q1.4
"GRAB 1"
                                                                                                                                                  %M0.1
"M2 move z1"
                                                                                                                                                                        %Q1.0
"MOVE X1"
                                                                                        %I1.4
                                                                                     "MOVING Z1"
                                                                                        \dashv\vdash
                                                                                                                                  ---
                                                                                                                                                       -( s )--
                                                                                        %M7.3
                                                                                       "Tag_3"
Network 11:
                                                                                    %I1.2
"MOVING X 1"
                                                                                                           %Q1.4
"GRAB 1"
                                                                                                                                                                       %M0.1
"M2 move z1"
                                                                                                                                                                            -( s )--
                                                                                        \exists N \vdash
                                                                                       %M7.1
"Tag_2"
Network 12:
```

```
Totally Integrated
   Automation Portal
                                                                                %M0.2
"M1 move z1"
                                                                                                                                                                 %Q1.2
"MOVE Z1"
                                                                                   %M0.1
                                                                                "M2 move z1"
                                                                                     +
Network 13:
                                                                                                      %Q1.0
"MOVE X1"
                                                                                 %I1.4
"MOVING Z1"
                                                                                                                                            %M0.1
"M2 move z1"
                                                                                                                           %Q1.4
"GRAB 1"
                                                                                                                                                                 %Q1.0
"MOVE X1"
                                                                                    H۱H
                                                                                                         + +
                                                                                                                             <del>-1</del>/|-
                                                                                                                                                                    -( R )-
                                                                                    %M7.7
                                                                                   "Tag_7"
Network 14:
                                                                                %I1.4
"MOVING Z1"
                                                                                                    %M0.1
"M2 move z1"
                                                                                                                          %Q1.4
"GRAB 1"
                                                                                                                                                                  %Q1.4
"GRAB 1"
                                                                                    \neg
                                                                                                                                                                    -( R )-
                                                                                   %M7.5
"Tag_5"
                                                                                                                                                                   %M0.1
                                                                                                                                                                "M2 move z1"
                                                                                                                                                                    _( R )_
Network 15: ARM 2
                                                                                                                                                               %M5.1
"M1 moving Z2"
                                                                                 %I0.6
"SENSOR 3"
                                                                                    \dashvP\vdash
                                                                                                                                                                    -( s )---
                                                                                    %M5.0
                                                                                   "Tag_14"
                                                                                                                                                                   %Q1.5
"GRAB 2"
Network 16:
                                                                                 %I1.5
"MOVING Z2"
                                                                                                     %I0.6
"SENSOR 3"
                                                                                                                                                               %M5.1
"M1 moving Z2"
                                                                                    %M5.3
                                                                                  "Tag_15"
Network 17:
                                                                                 %I1.5
"MOVING Z2"
                                                                                                     %I0.6
"SENSOR 3"
                                                                                                                                                                 %Q1.1
"MOVE X2"
                                                                                    \neg
                                                                                                         <del>-1</del>/|-
                                                                                                                                                                    -( s }----
                                                                                    %M5.4
                                                                                   "Tag_16"
Network 18:
                                                                                 %I1.3
"MOVING X2"
                                                                                                     %I1.1
"DETECT 2"
                                                                                                                                                                %M5.2
"M2 move Z2"
                                                                                    H۱H
                                                                                                                                                                    _( s )____
                                                                                   %M5.5
"Tag_18"
Network 19:
                                                                               %M5.1
"M1 moving Z2"
                                                                                                                                                                 %Q1.3
"MOVE Z2"
                                                                                                                                                                    %M5.2
"M2 move Z2"
```

