

Project Documentation

File: Cena05.project
Date: 22/12/2024
Profile: CODESYS V3.5 SP8 Patch 1

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1 Device: Device

Users and Groups

Users:

Groups:

Information

Name: CODESYS Control Win V3
Vendor: 3S - Smart Software Solutions GmbH
Groups: PLCs
Type: 4096
ID: 0000 0001
Version: 3.5.8.10
Order number: 305021
Description: CODESYS V3 Soft-PLC for Windows with non realtime capabilities (CODESYS Control Win V3)

1.1 Plc Logic: Plc Logic

1.1.1 Application: Application

1.1.1.1 Library Manager: Library Manager

```
#IoStandard
  Base Interfaces, * (System)
  SysTypes2 Interfaces, * (System)
  CmpErrors2 Interfaces, * (System)
#3SLicense
  #CmpLog
    SysTypes2 Interfaces, * (System)
  #CAA Types
    #SysCpuHandling
      #SysMem
        SysTypes2 Interfaces, * (System)
        SysTypes2 Interfaces, * (System)
        CmpErrors2 Interfaces, * (System)
  #Standard
  #Component Manager
    #CmpEventMgr
      SysTypes2 Interfaces, * (System)
      CmpErrors2 Interfaces, * (System)
    #CmpApp
      SysTypes2 Interfaces, * (System)
      #CmpEventMgr
```

```
CmpErrors2 Interfaces, * (System)
SysTypes2 Interfaces, * (System)
#CmpApp
  SysTypes2 Interfaces, * (System)
  #CmpEventMgr
    SysTypes2 Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
#CmpCodeMeter
  SysTypes2 Interfaces, * (System)
  CmpErrors2 Interfaces, * (System)
  CmpErrors2 Interfaces, * (System)
  SysTypes2 Interfaces, * (System)
#Standard
#BreakpointLogging
  #CmpLog
    SysTypes2 Interfaces, * (System)
    SysTypes2 Interfaces, * (System)
#IecVarAccess
  #CmplecVarAccess
    #Collections
      #SysMem
        SysTypes2 Interfaces, * (System)
      #Standard
        Collections Interfaces, * (System)
        Base Interfaces, * (System)
        CmpErrors2 Interfaces, * (System)
        Base Interfaces, * (System)
        Collections Interfaces, * (System)
        SysTypes2 Interfaces, * (System)
        IecVarAccess3 Interfaces, * (System)
#Component Manager
  #CmpEventMgr
    SysTypes2 Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
  #CmpApp
    SysTypes2 Interfaces, * (System)
    #CmpEventMgr
      SysTypes2 Interfaces, * (System)
      CmpErrors2 Interfaces, * (System)
    SysTypes2 Interfaces, * (System)
#Collections
  #SysMem
    SysTypes2 Interfaces, * (System)
  #Standard
    Collections Interfaces, * (System)
    Base Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
#Standard
#SymbolicVarsBase
  #CmpApp
    SysTypes2 Interfaces, * (System)
    #CmpEventMgr
      SysTypes2 Interfaces, * (System)
      CmpErrors2 Interfaces, * (System)
  #Collections
    #SysMem
      SysTypes2 Interfaces, * (System)
```

```
Collections Interfaces, * (System)
Base Interfaces, * (System)
CmpErrors2 Interfaces, * (System)
#Standard
#SysMem
  SysTypes2 Interfaces, * (System)
#SysCpuHandling
  #SysMem
    SysTypes2 Interfaces, * (System)
    SysTypes2 Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
  Base Interfaces, * (System)
  Collections Interfaces, * (System)
  SysTypes2 Interfaces, * (System)
  CmpErrors2 Interfaces, * (System)
  lecVarAccess3 Interfaces, * (System)
Base Interfaces, * (System)
Collections Interfaces, * (System)
Data Server Interfaces, * (System)
SysTypes2 Interfaces, * (System)
CmpErrors2 Interfaces, * (System)
#SysMem
  SysTypes2 Interfaces, * (System)
lecVarAccess3 Interfaces, * (System)
```

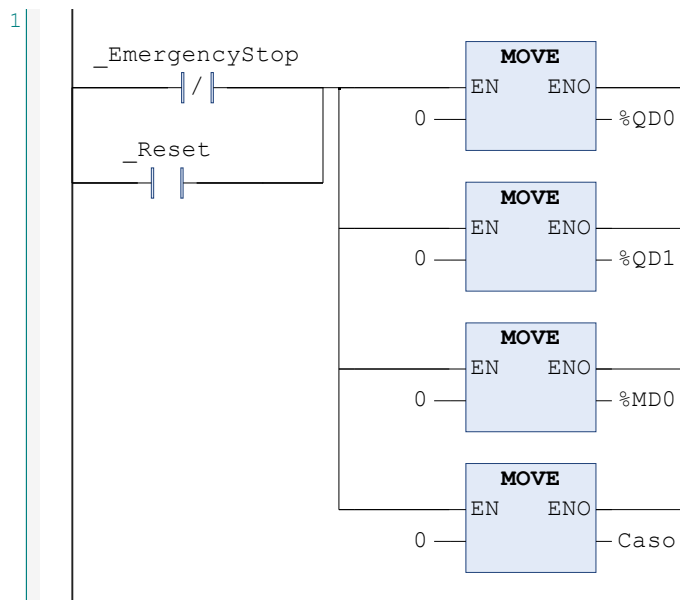
1.1.1.2 POU: PLC_PRG

```
1      PROGRAM PLC_PRG
2      VAR
3          //Entradas
4          _AtExit : BOOL ;
5          _Auto : BOOL ;
6          _EmergencyStop : BOOL ;
7          _Manual : BOOL ;
8          _Reset : BOOL ;
9          _Start : BOOL ;
10         _Stop : BOOL ;
11         _VisionSensor : WORD ;
12
13         //Saídas
14         Counter1 : WORD ;
15         Counter2 : WORD ;
16         Counter3 : WORD ;
17         EntryConveyor : BOOL ;
18         ExitConveyor : BOOL ;
19         ResetLight : BOOL ;
20         StartLight : BOOL ;
21         StopLight : BOOL ;
22         Sorter1Belt : BOOL ;
23         Sorter1Turn : BOOL ;
24         Sorter2Belt : BOOL ;
25         Sorter2Turn : BOOL ;
26         Sorter3Belt : BOOL ;
27         Sorter3Turn : BOOL ;
28         StopBlade : BOOL ;
29
```

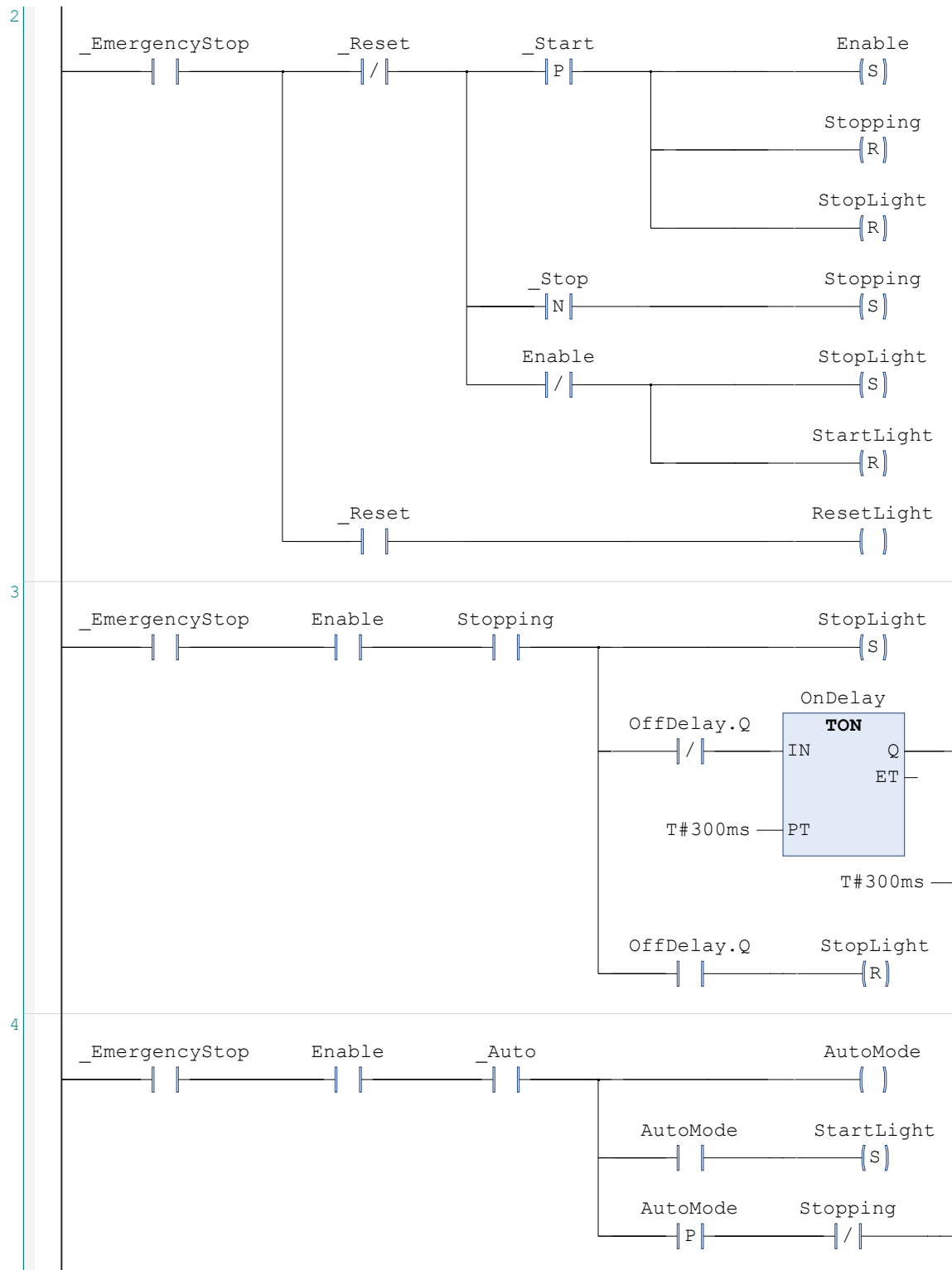
```

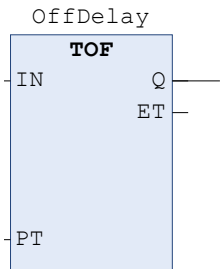
30      //Sinais
31      Enable : BOOL ;
32      Stopping : BOOL ;
33      AutoMode : BOOL ;
34      ManualMode : BOOL ;
35      OnDelay : TON ;
36      OffDelay : TOF ;
37      TON : ARRAY [ 1 .. 4 ] OF TON ;
38      Caso : INT ;
39      F_TRIG : ARRAY [ 1 .. 3 ] OF F_TRIG ;
40      MX10 : BOOL ;
41      MX11 : BOOL ;
42      MX12 : BOOL ;
43      VisionEQ1 : BOOL ;
44      TON_0 : TON ;
45      VisionEQ6 : BOOL ;
46      TON_1 : TON ;
47      VisionEQ4 : BOOL ;
48      TON_2 : TON ;
49      VisionEQ5 : BOOL ;
50      TON_3 : TON ;
51      VisionEQ2 : BOOL ;
52      TON_4 : TON ;
53      VisionEQ3 : BOOL ;
54      TON_5 : TON ;
55  END_VAR
56

```



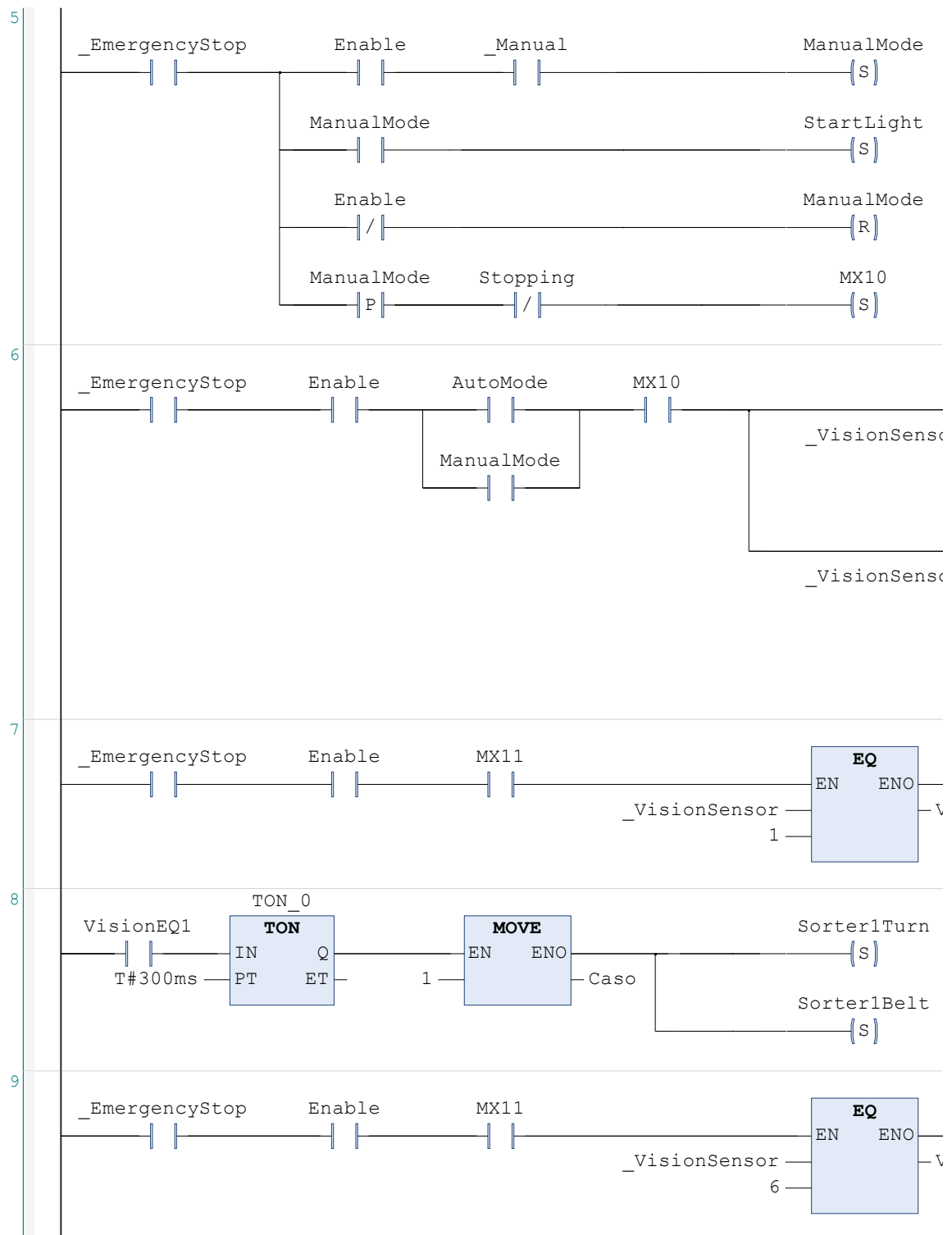
1.1.1.2 POU: PLC_PRG

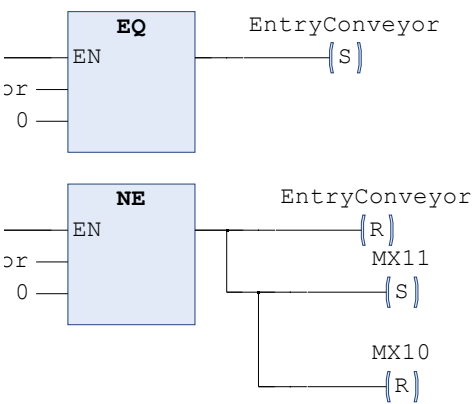




MX10
— (S)

1.1.1.2 POU: PLC_PRG

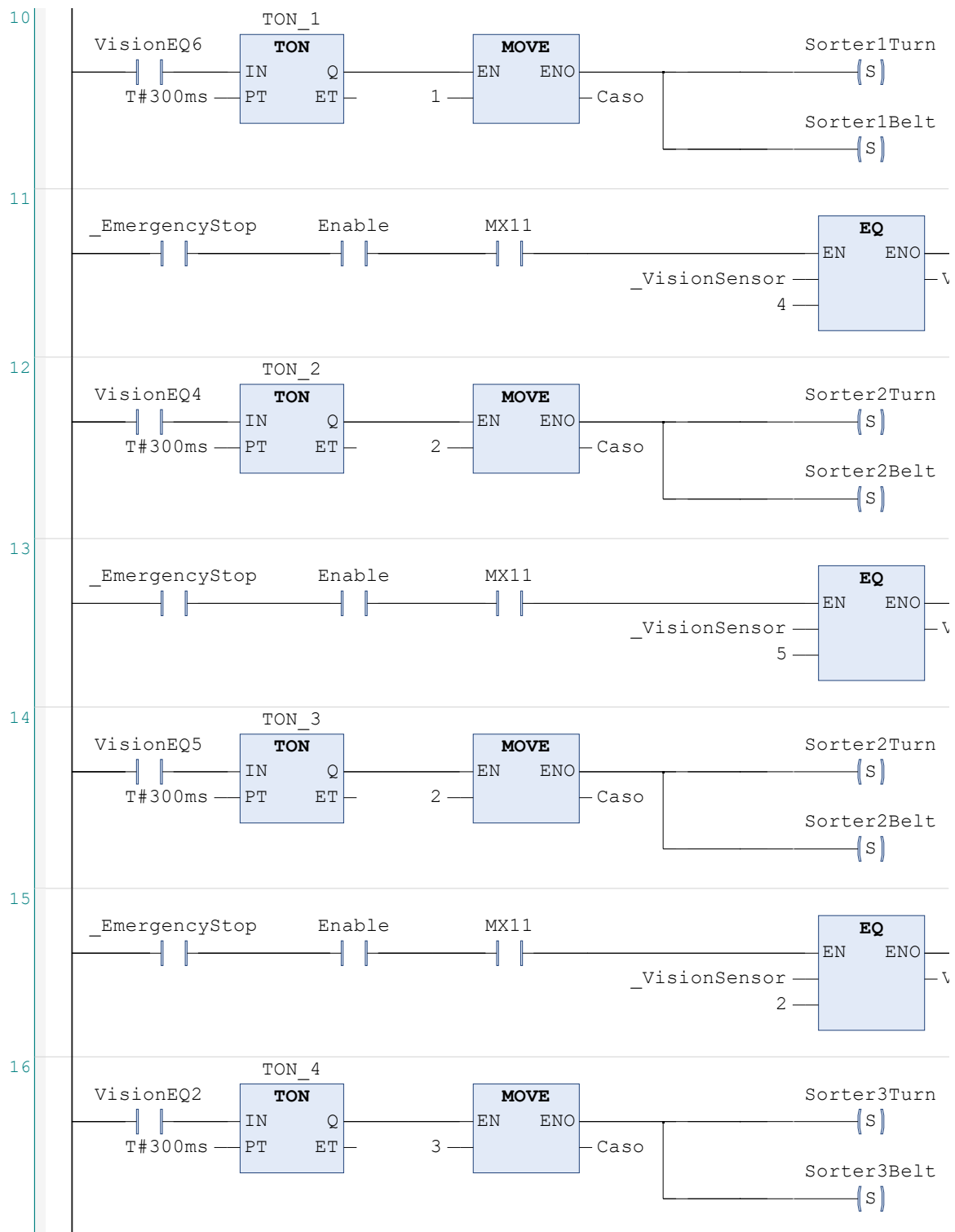




/isionEQ1

/isionEQ6

1.1.1.2 POU: PLC_PRG

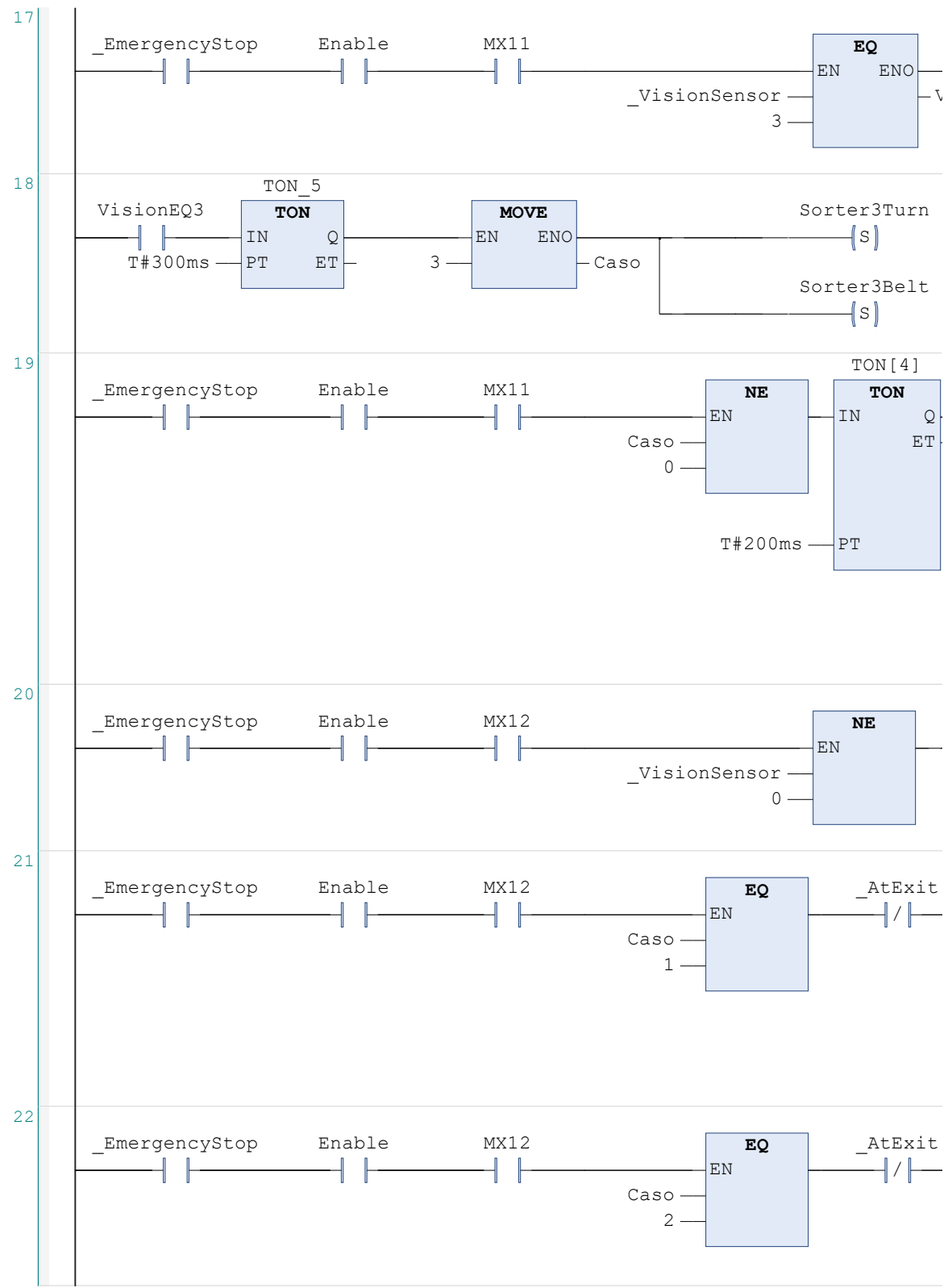


/isionEQ4

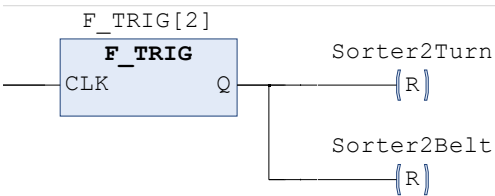
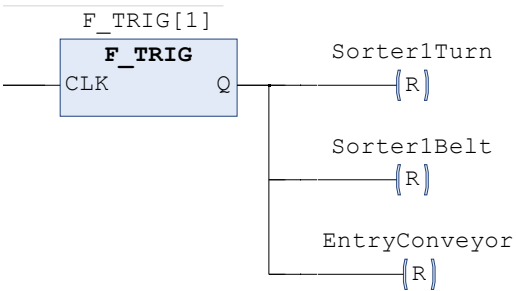
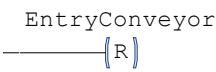
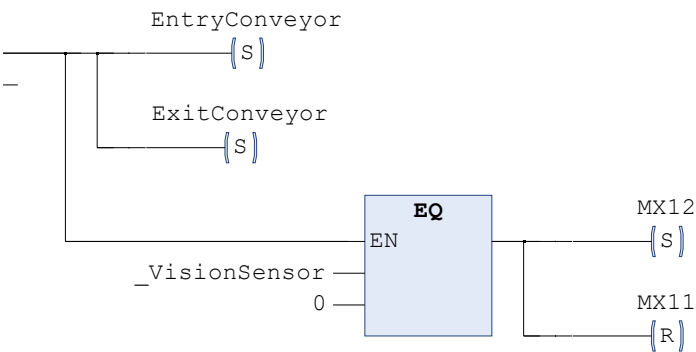
/isionEQ5

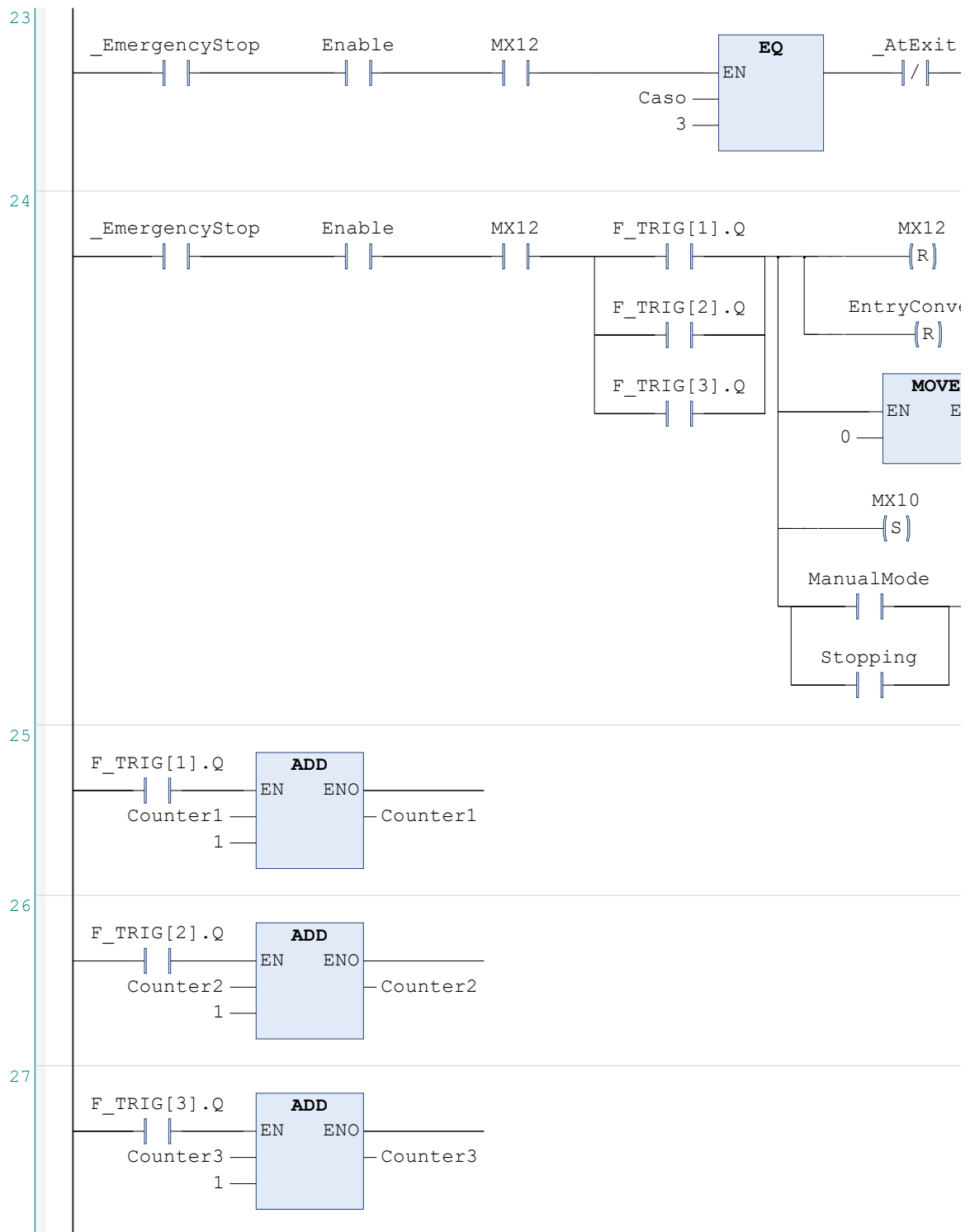
/isionEQ2

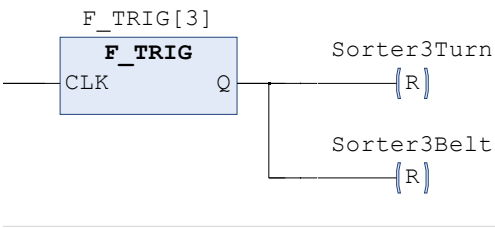
1.1.1.2 POU: PLC_PRG



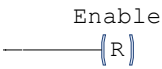
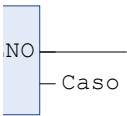
/visionEQ3







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1.1.1.3 Symbol configuration: Symbols

1.1.1.4 Task Configuration: Task Configuration

Max. number of tasks: 100
Max. number of cyclic tasks: 100
Max. number of freewheeling tasks: 100
Max. number of event tasks: 100
Max. number of status tasks: 100

System Events:

1.1.1.4.1 Task: MainTask

Priority: 1
Type: Cyclic
Interval: t#20ms Unit: ms
Watchdog: Inactive
POUs: PLC_PRG

1.1.1.4.1.1 Program call: PLC_PRG

2 : Project Settings

Static Analysis Light:

Unused variables (#33): 0
Overlapping memory areas (#28): 0
Concurrent access (#6): 0
Multiple write access on output (#4): 0
Multiple usage of name (#27): 0