

Project Documentation

File: Cena09.project
Date: 27/12/2024
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
    #CmpEventManager
      SysTypes2 Interfaces, * (System)
      CmpErrors2 Interfaces, * (System)
    #CmpApp
      SysTypes2 Interfaces, * (System)
      #CmpEventManager
```

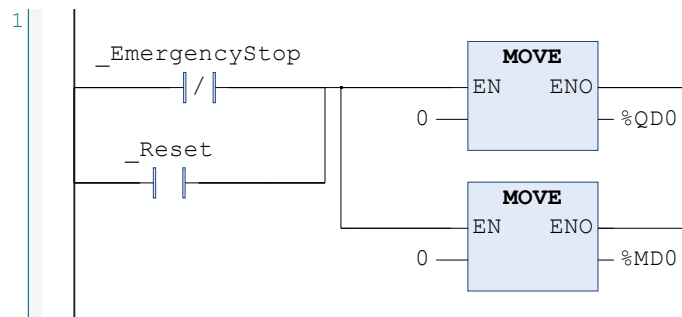
```
CmpErrors2 Interfaces, * (System)
SysTypes2 Interfaces, * (System)
#CmpApp
  SysTypes2 Interfaces, * (System)
  #CmpEventMgr
    SysTypes2 Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
#CmpCodeMeter
  SysTypes2 Interfaces, * (System)
  CmpErrors2 Interfaces, * (System)
  CmpErrors2 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)
```

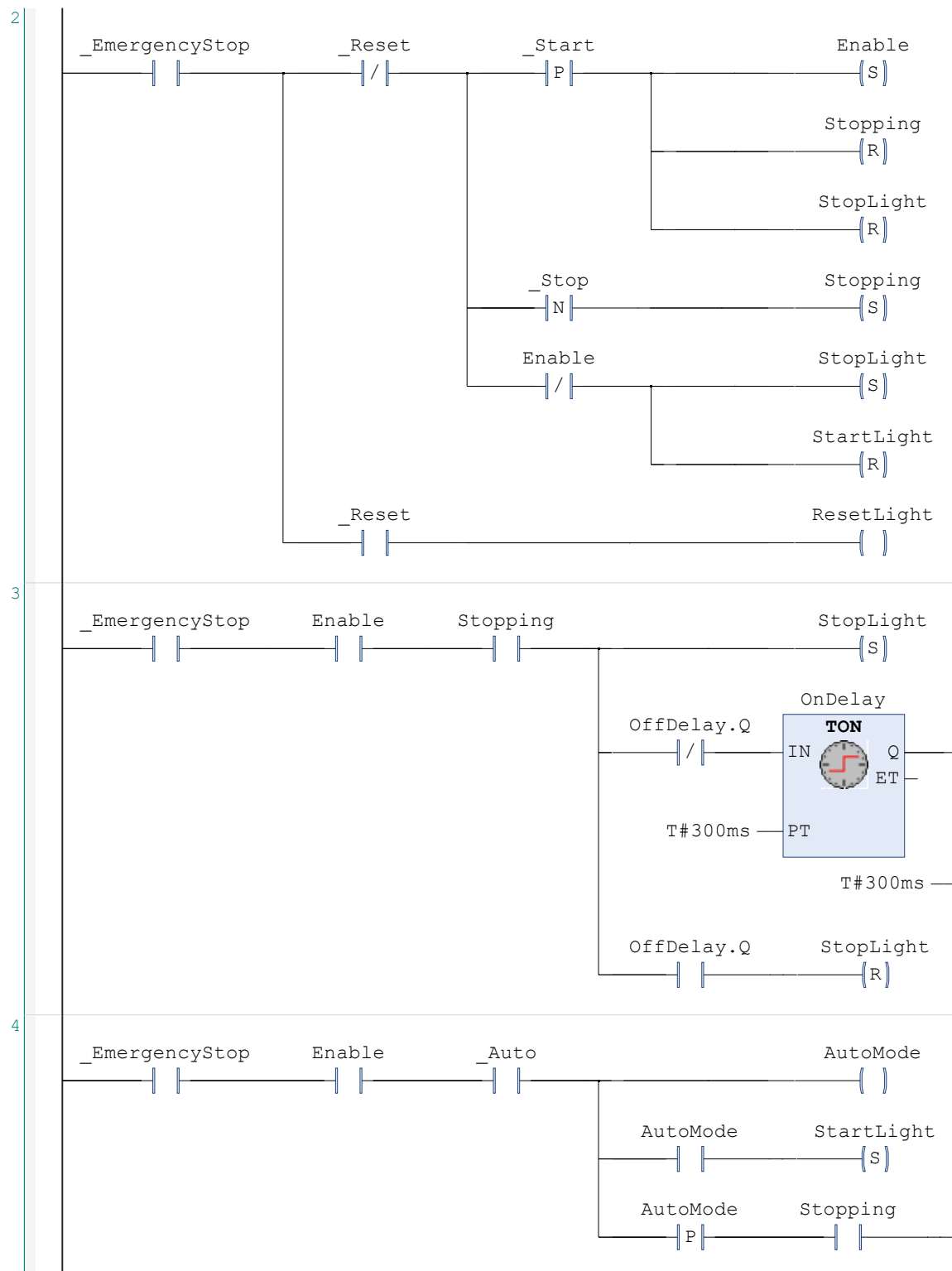
1.1.1.2 POU: PLC_PRG

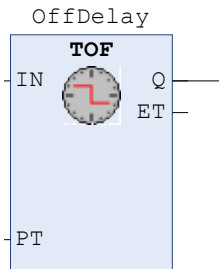
```
1      PROGRAM PLC_PRG
2      VAR
3          //Entradas
4          _Auto : BOOL ;
5          _BaseAtPlace : BOOL ;
6          _BaseClamped : BOOL ;
7          _EmergencyStop : BOOL ;
8          _ItemDetected : BOOL ;
9          _LidAtPlace : BOOL ;
10         _LidClamped : BOOL ;
11         _Manual : BOOL ;
12         _MovingX : BOOL ;
13         _MovingZ : BOOL ;
14         _PartLeaving : BOOL ;
15         _PosAtLimitBases : BOOL ;
16         _PosAtLimitLids : BOOL ;
17         _Reset : BOOL ;
18         _Start : BOOL ;
19         _Stop : BOOL ;
20
21         //Saidas
22         BasesConveyor : BOOL ;
23         ClampBase : BOOL ;
24         ClampLid : BOOL ;
25         Counter : WORD ;
26         Grab : BOOL ;
27         LidsConveyor : BOOL ;
28         MoveX : BOOL ;
29         MoveZ : BOOL ;
```

```
30     PosRaiseBase : BOOL ;
31     PosRaiseLids : BOOL ;
32     ResetLight : BOOL ;
33     StartLight : BOOL ;
34     StopLight : BOOL ;
35     BasesEmitter : BOOL ;
36
37     //Sinais
38     Enable : BOOL ;
39     Stopping : BOOL ;
40     OnDelay : TON ;
41     OffDelay : TOF ;
42     AutoMode : BOOL ;
43     MX10 : BOOL ;
44     ManualMode : BOOL ;
45     MX20 : BOOL ;
46     MX21 : BOOL ;
47     MX11 : BOOL ;
48     F_TRIG_0 : F_TRIG ;
49     MX12 : BOOL ;
50     F_TRIG_1 : F_TRIG ;
51     MX13 : BOOL ;
52     F_TRIG_2 : F_TRIG ;
53     MX14 : BOOL ;
54     F_TRIG_3 : F_TRIG ;
55     MX15 : BOOL ;
56     F_TRIG_4 : F_TRIG ;
57     MX16 : BOOL ;
58     F_TRIG_5 : F_TRIG ;
59     END_VAR
60
```



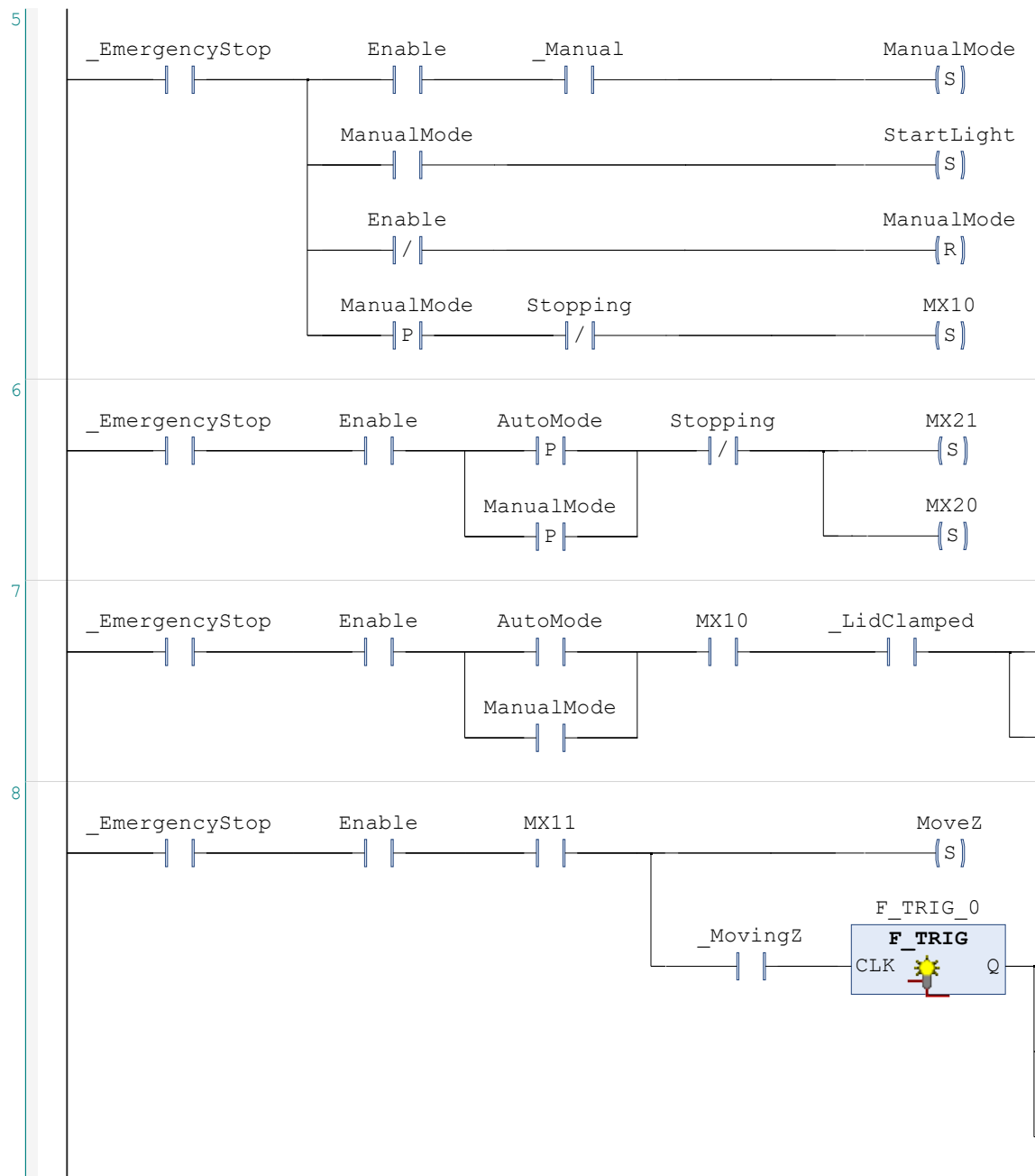
1.1.1.2 POU: PLC_PRG

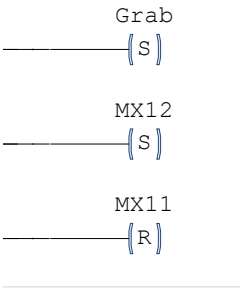
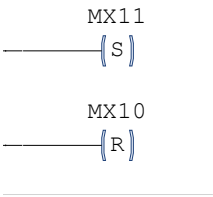


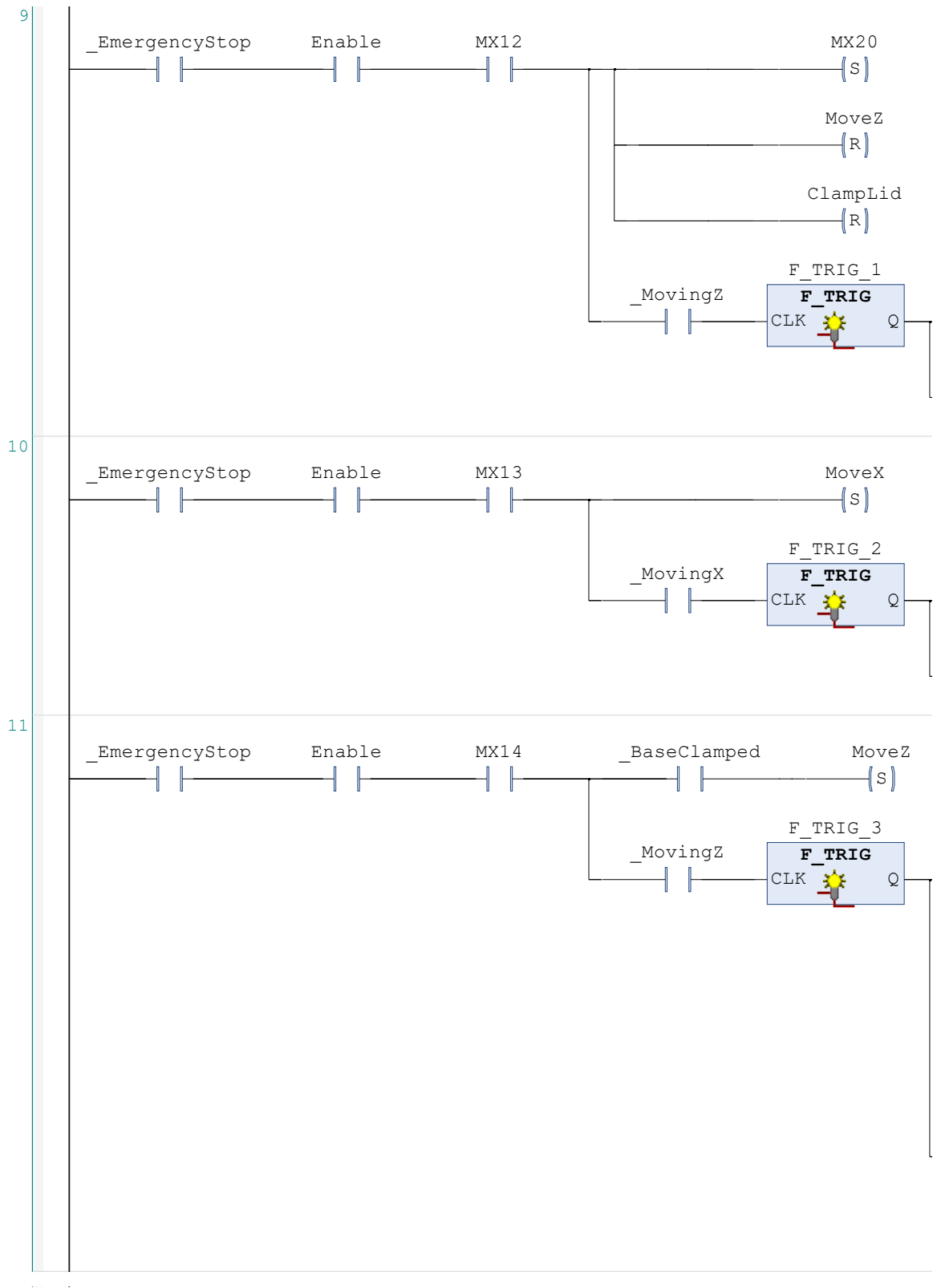


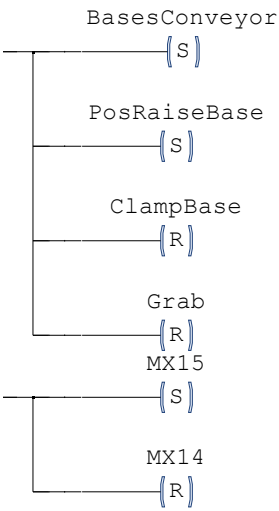
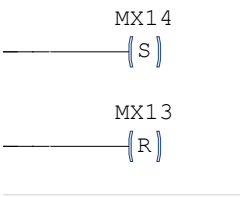
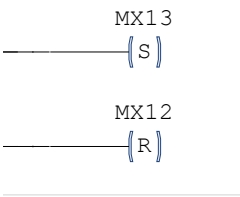
MX10
(s)

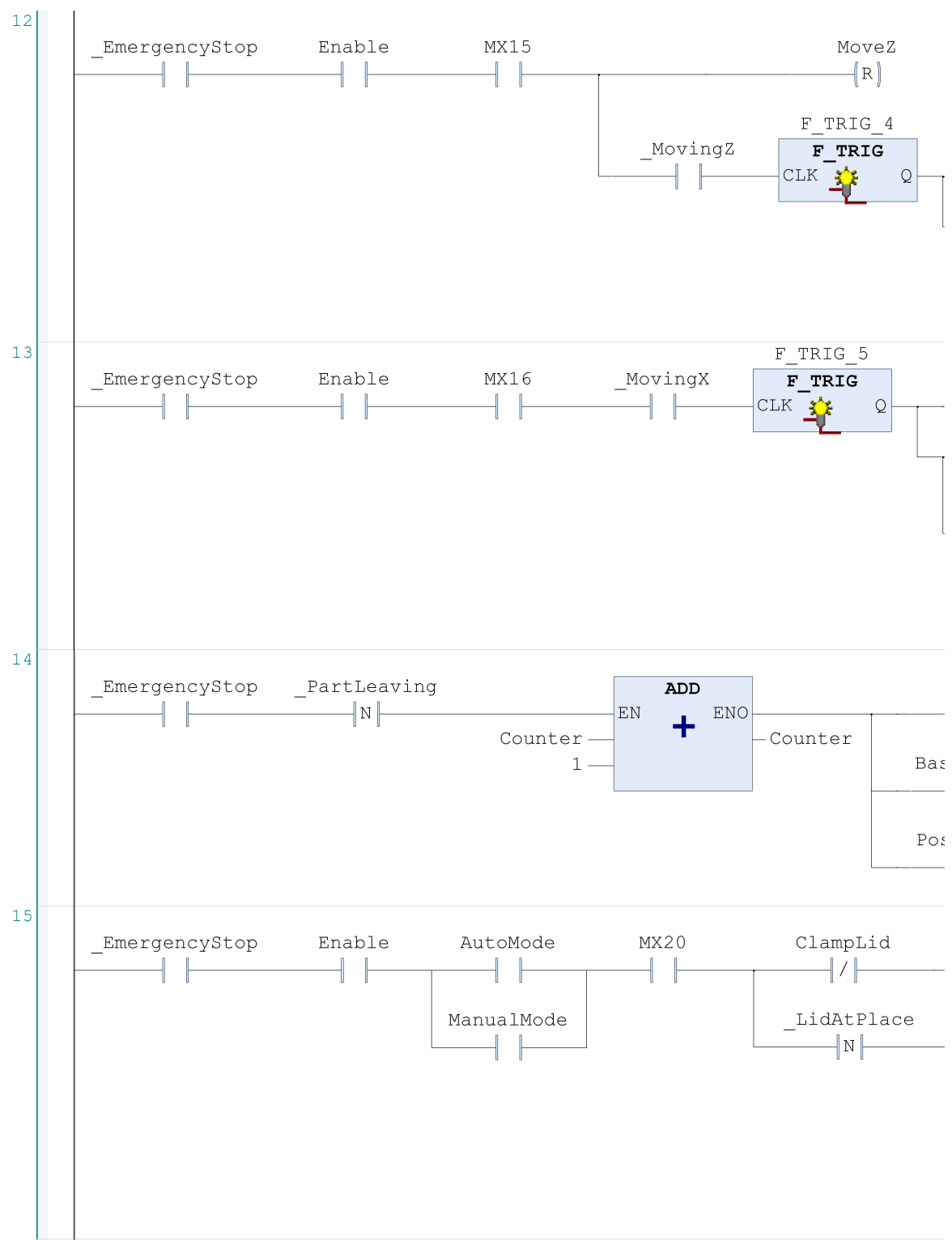
1.1.1.2 POU: PLC_PRG

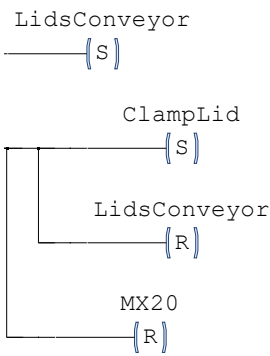
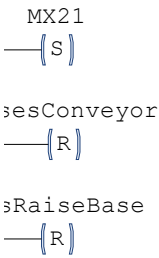
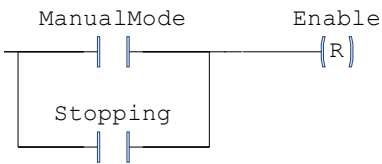
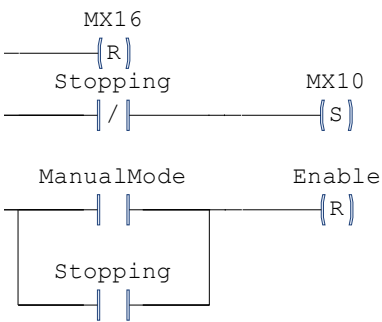
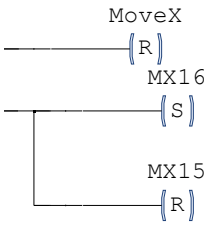


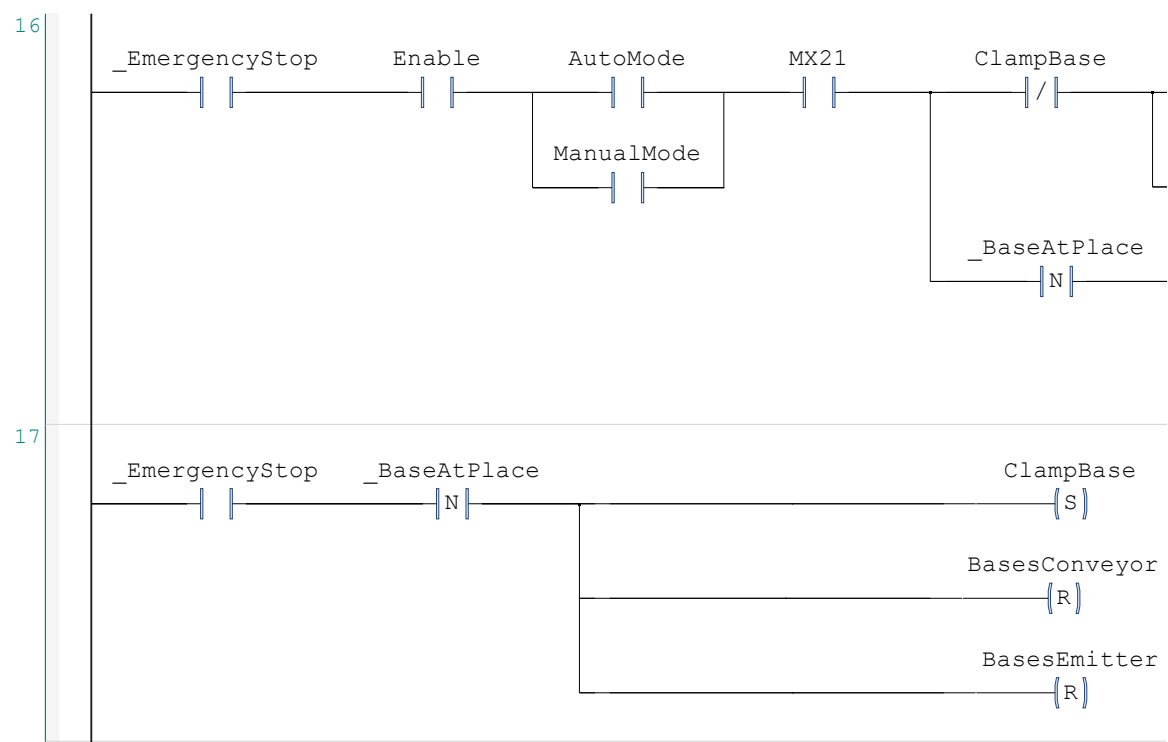


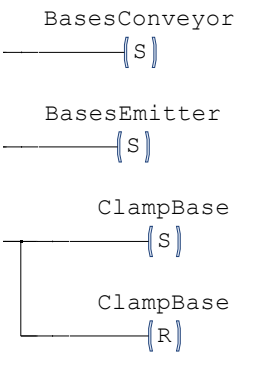












1.1.1.3 Symbol configuration: Symbols

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