

## Project Documentation

File: Cena04\_2.project  
Date: 25/01/2025  
Profile: CODESYS V3.5 SP8 Patch 1

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# 1 Device: Device

## Users and Groups

Users:

Groups:

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## 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)

```

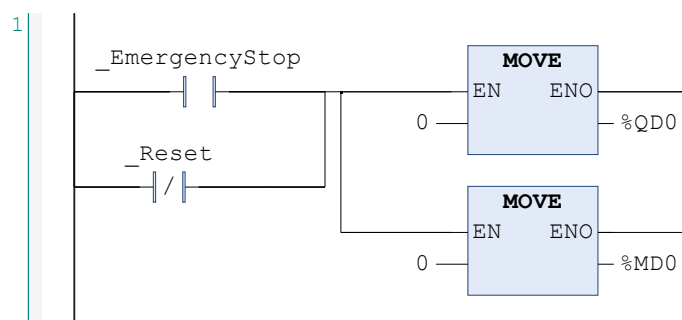
```
Collections Interfaces, * (System)
Base Interfaces, * (System)
CmpErrors2 Interfaces, * (System)
#Standard
#SysMem
  SysTypes2 Interfaces, * (System)
#SysCpuHandling
  #SysMem
    SysTypes2 Interfaces, * (System)
    SysTypes2 Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
  Base Interfaces, * (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          _AtEntry : BOOL ;
5          _AtExit : BOOL ;
6          _AtLeft : BOOL ;
7          _AtLoad : BOOL ;
8          _AtMiddle : BOOL ;
9          _AtRight : BOOL ;
10         _AtUnload : BOOL ;
11         _Auto : BOOL ;
12         _EmergencyStop : BOOL ;
13         _Manual : BOOL ;
14         _MovingX : BOOL ;
15         _MovingZ : BOOL ;
16         _Reset : BOOL ;
17         _Start : BOOL ;
18         _Stop : BOOL ;
19
20         //Saidas
21         EntryConveyor : BOOL ;
22         UnloadConveyor : BOOL ;
23         ExitConveyor : BOOL ;
24         ForksLeft : BOOL ;
25         ForksRight : BOOL ;
26         Lift : BOOL ;
27         LoadConveyor : BOOL ;
28         ResetLight : BOOL ;
29         StartLight : BOOL ;
```

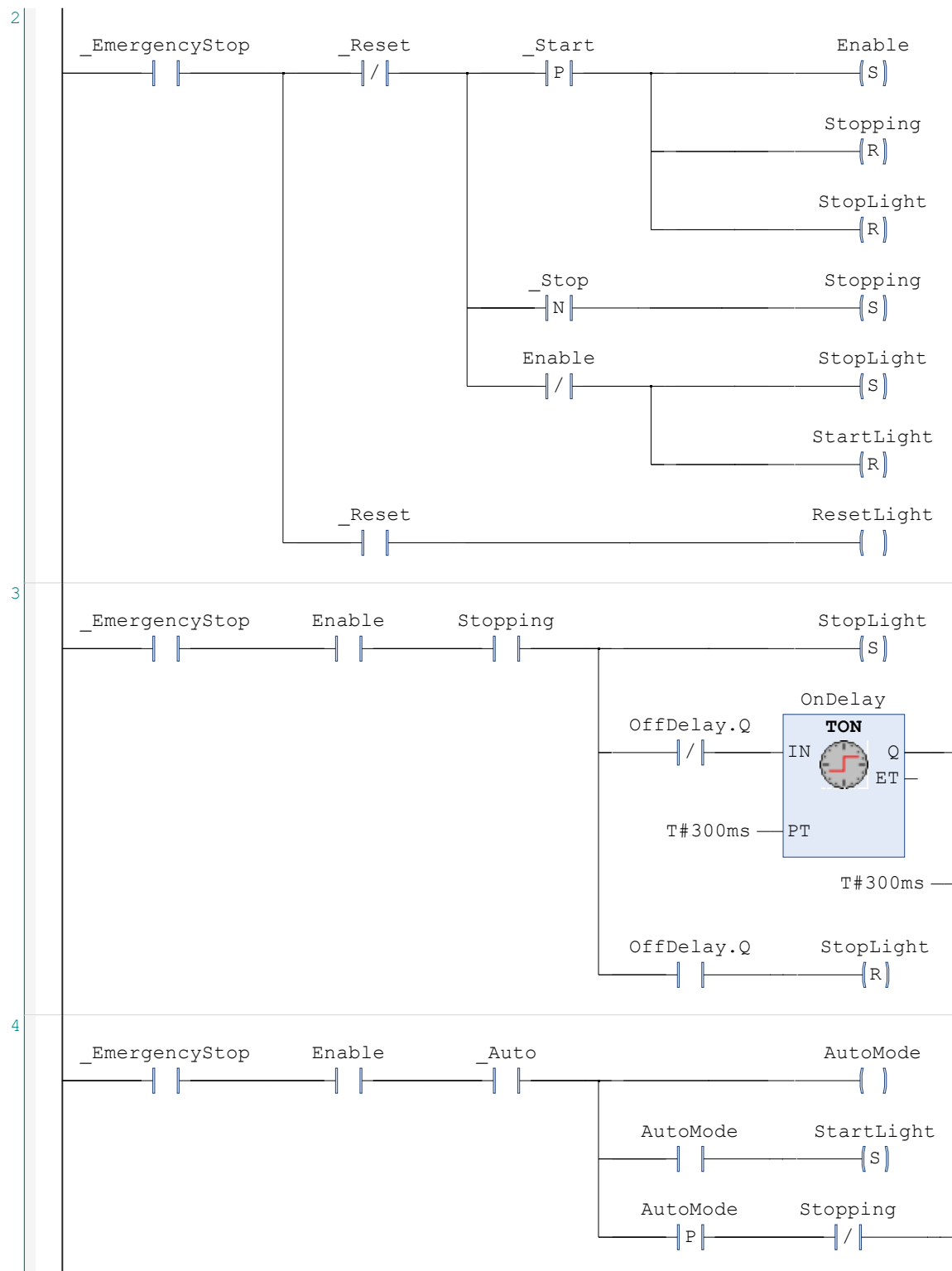
### 1.1.1.2 POU: PLC\_PRG

```
30      StopLight : BOOL ;
31      TargetPosition : INT ;
32
33      //Sinais
34      Enable : BOOL ;
35      Stopping : BOOL ;
36      OnDelay : TON ;
37      OffDelay : TOF ;
38      AutoMode : BOOL ;
39      ManualMode : BOOL ;
40
41      Contagem : WORD ;
42      Contador : CTU ;
43      MX10 : BOOL ;
44      MX11 : BOOL ;
45      MX12 : BOOL ;
46      MX13 : BOOL ;
47      MX14 : BOOL ;
48      MX15 : BOOL ;
49  END_VAR
50
```

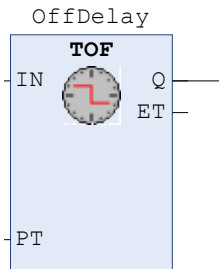




### 1.1.1.2 POU: PLC\_PRG





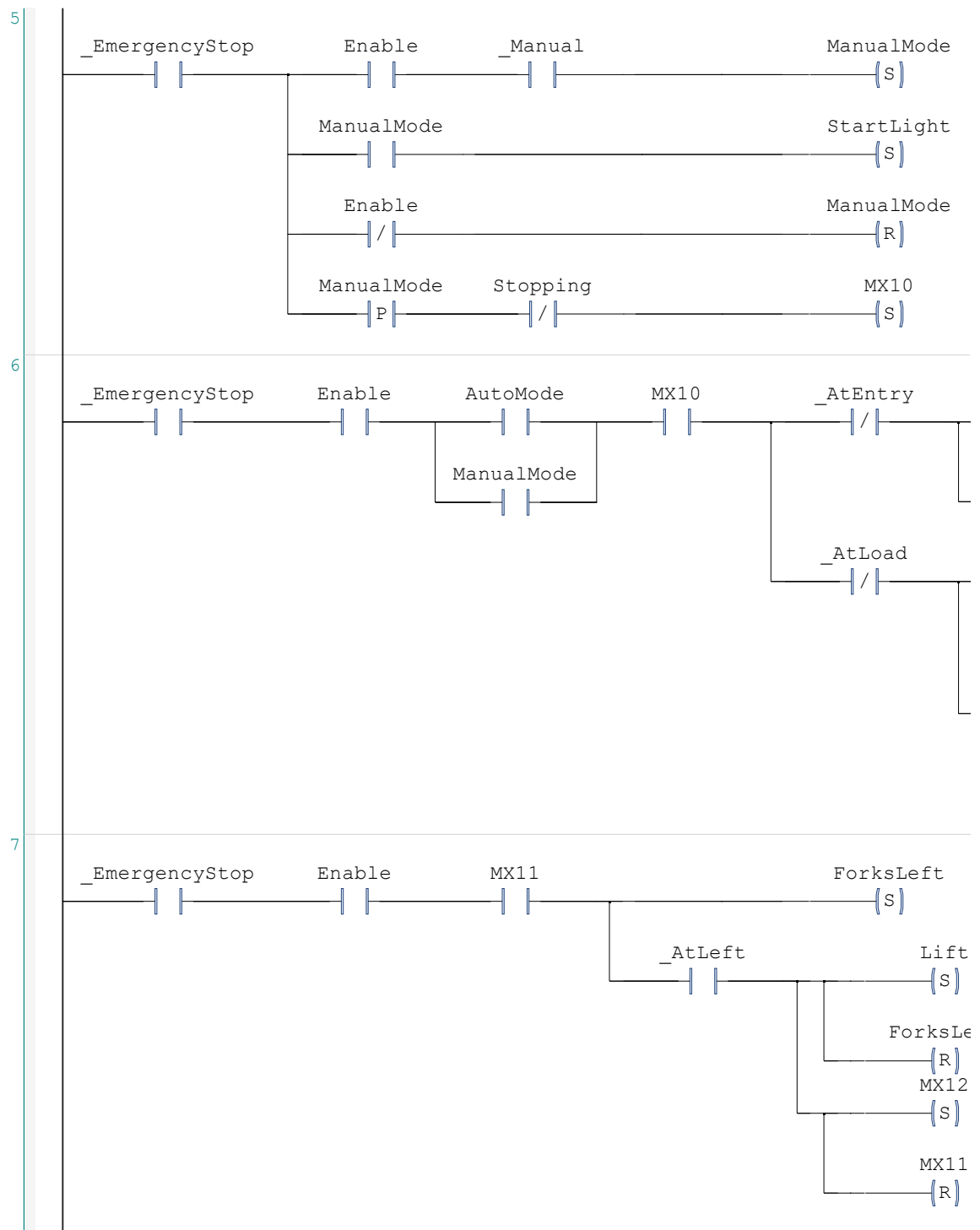


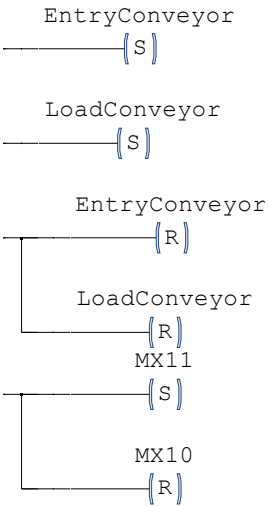
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MX10  
(s)

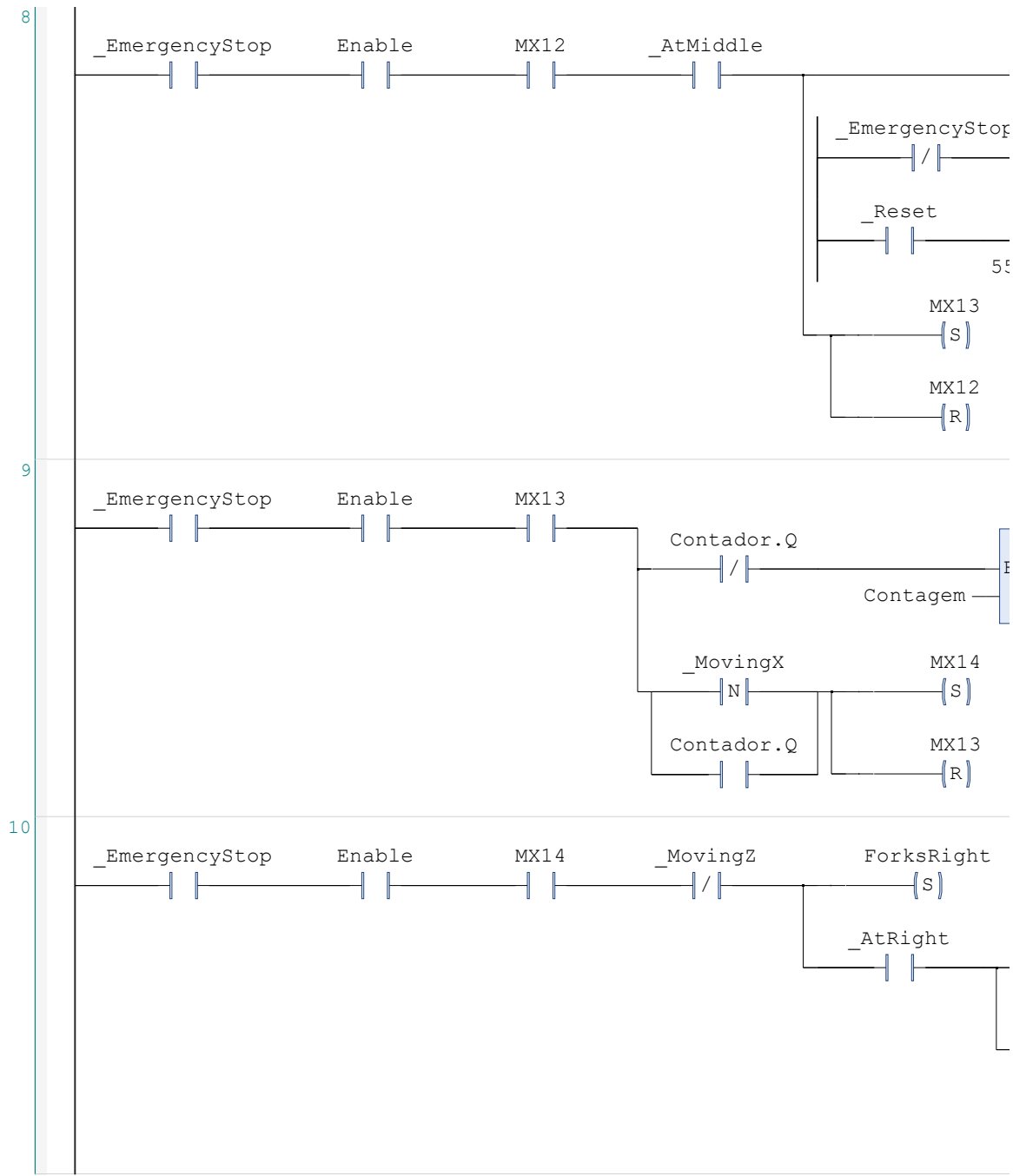
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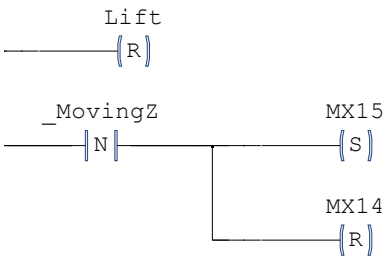
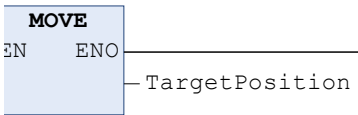
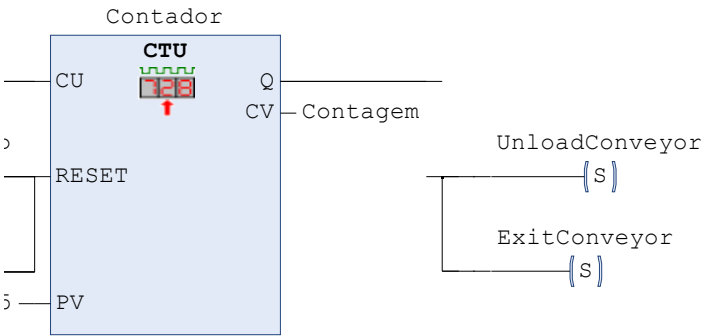
### 1.1.1.2 POU: PLC\_PRG

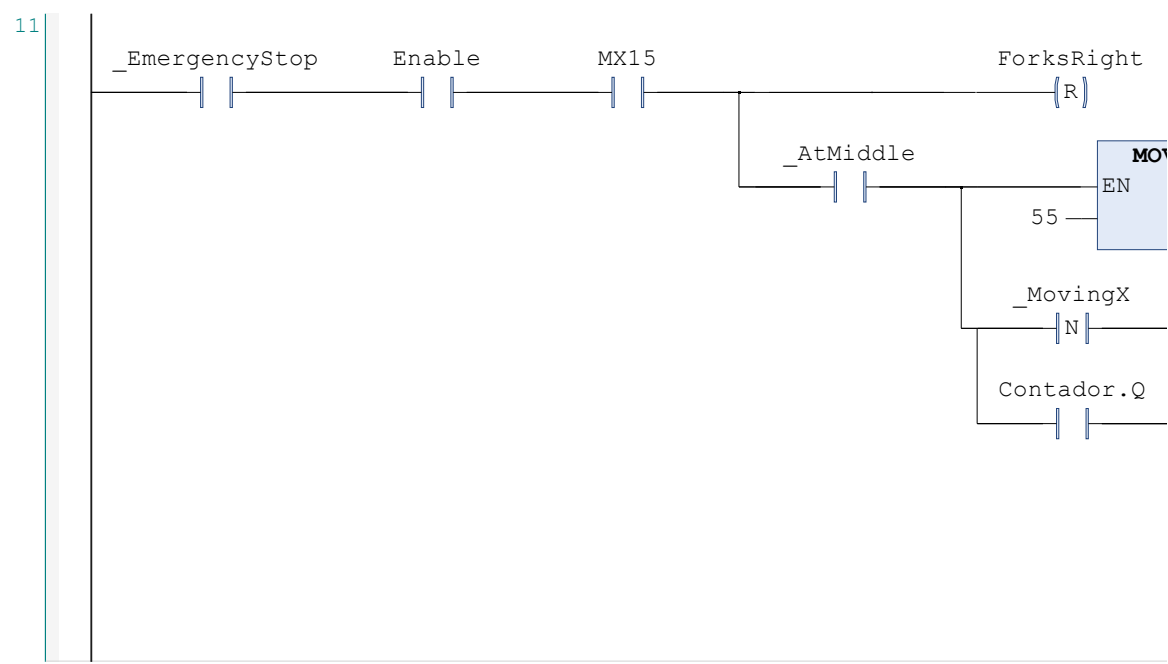


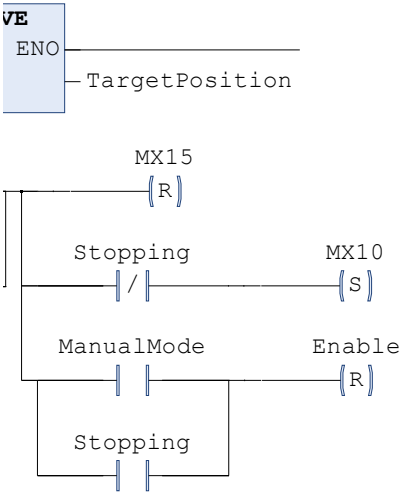


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### 1.1.1.3 Symbol configuration: Symbols

### 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