

## Project Documentation

File: Cena06.project  
Date: 22/12/2024  
Profile: CODESYS V3.5 SP8 Patch 1

Table of Contents

1	Device: Device	3
1.1	Plc Logic: Plc Logic	3
1.1.1	Application: Application	3
2	: Project Settings	16

# 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)
```

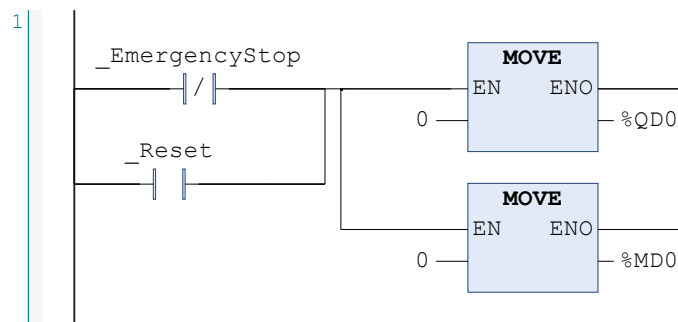
```
Collections Interfaces, * (System)
Base Interfaces, * (System)
CmpErrors2 Interfaces, * (System)
#Standard
#SysMem
  SysTypes2 Interfaces, * (System)
#SysCpuHandling
  #SysMem
    SysTypes2 Interfaces, * (System)
    SysTypes2 Interfaces, * (System)
    CmpErrors2 Interfaces, * (System)
  Base Interfaces, * (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          //Entrada
4          _Auto : BOOL ;
5          _EmergencyStop : BOOL ;
6          _ItemAtEntry : BOOL ;
7          _ItemAtExit : BOOL ;
8          _ItemDetected : BOOL ;
9          _Manual : BOOL ;
10         _MovingX : BOOL ;
11         _MovingZ : BOOL ;
12         _Reset : BOOL ;
13         _Start : BOOL ;
14         _Stop : BOOL ;
15
16         //Saidas
17         Counter : WORD ;
18         EntryConveyor : BOOL ;
19         ExitConveyor : BOOL ;
20         Grab : BOOL ;
21         MoveX : BOOL ;
22         MoveZ : BOOL ;
23         ResetLight : BOOL ;
24         StartLight : BOOL ;
25         StopLight : BOOL ;
26
27         //Sinais
28         OnDelay : TON ;
29         OffDelay : TOF ;
```

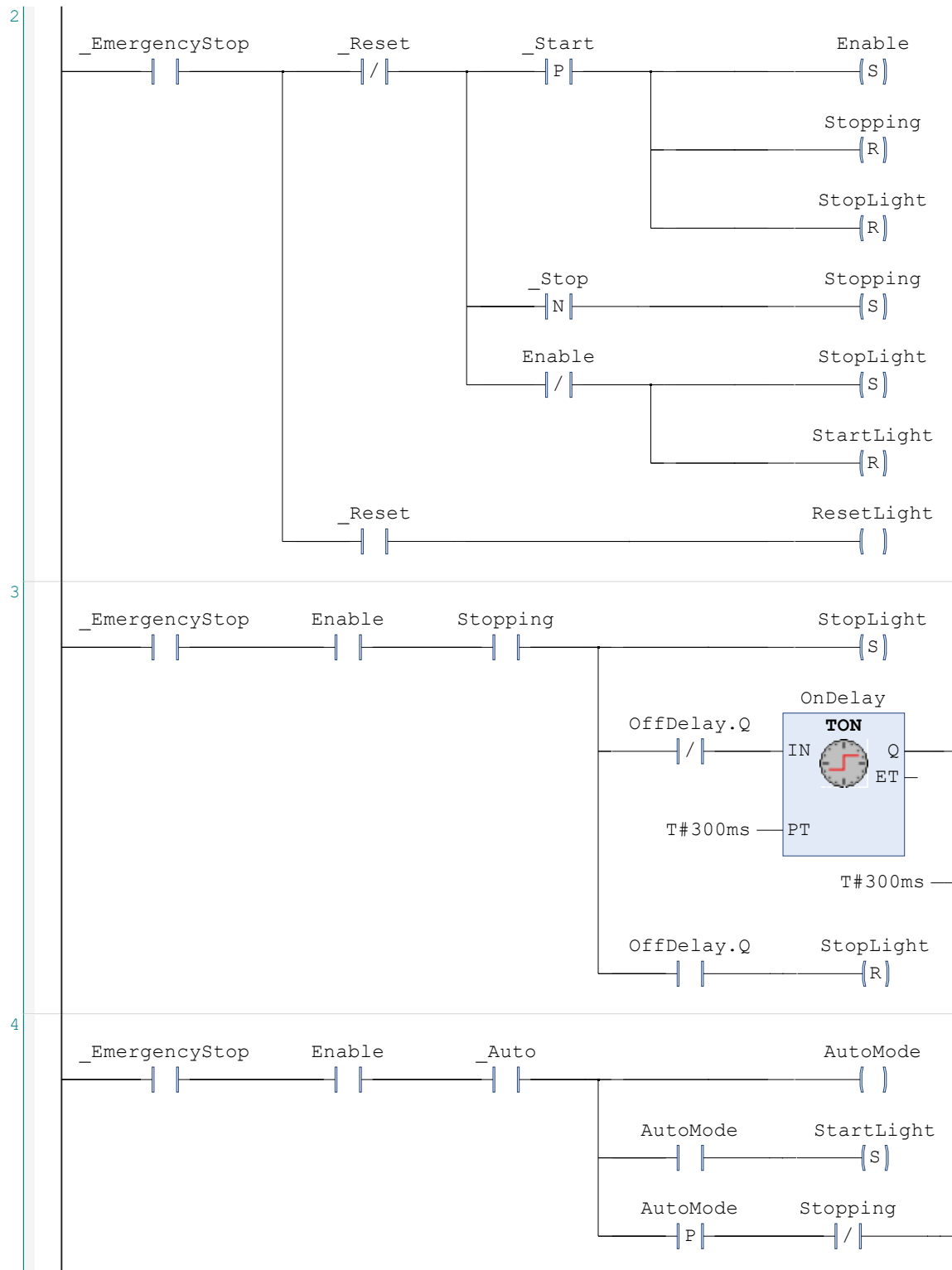
```
30      Enable : BOOL ;
31      Stopping : BOOL ;
32      AutoMode : BOOL ;
33      ManualMode : BOOL ;
34      MX10 : BOOL ;
35      MX11 : BOOL ;
36      F_TRIG_0 : F_TRIG ;
37      MX12 : BOOL ;
38      F_TRIG_1 : F_TRIG ;
39      MX13 : BOOL ;
40      F_TRIG_2 : F_TRIG ;
41      MX14 : BOOL ;
42      F_TRIG_3 : F_TRIG ;
43      MX15 : BOOL ;
44      F_TRIG_4 : F_TRIG ;
45      MX16 : BOOL ;
46      F_TRIG_5 : F_TRIG ;
47  END_VAR
48
```

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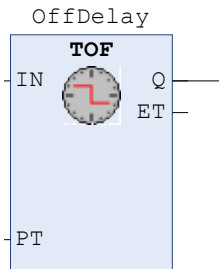




### 1.1.1.2 POU: PLC\_PRG





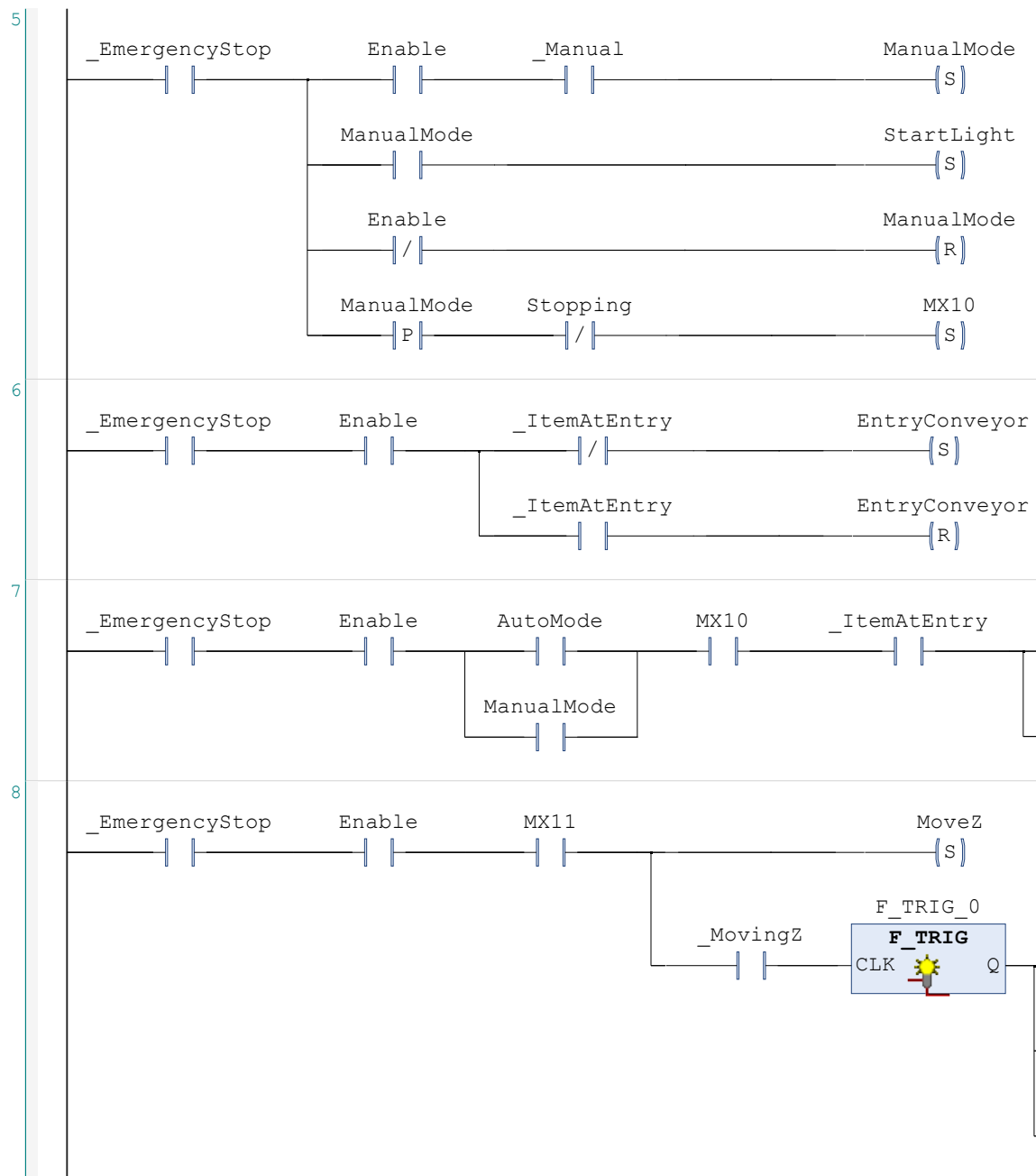


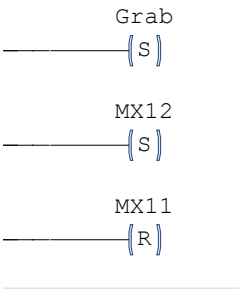
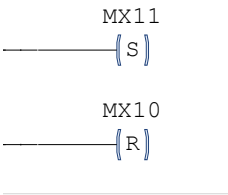
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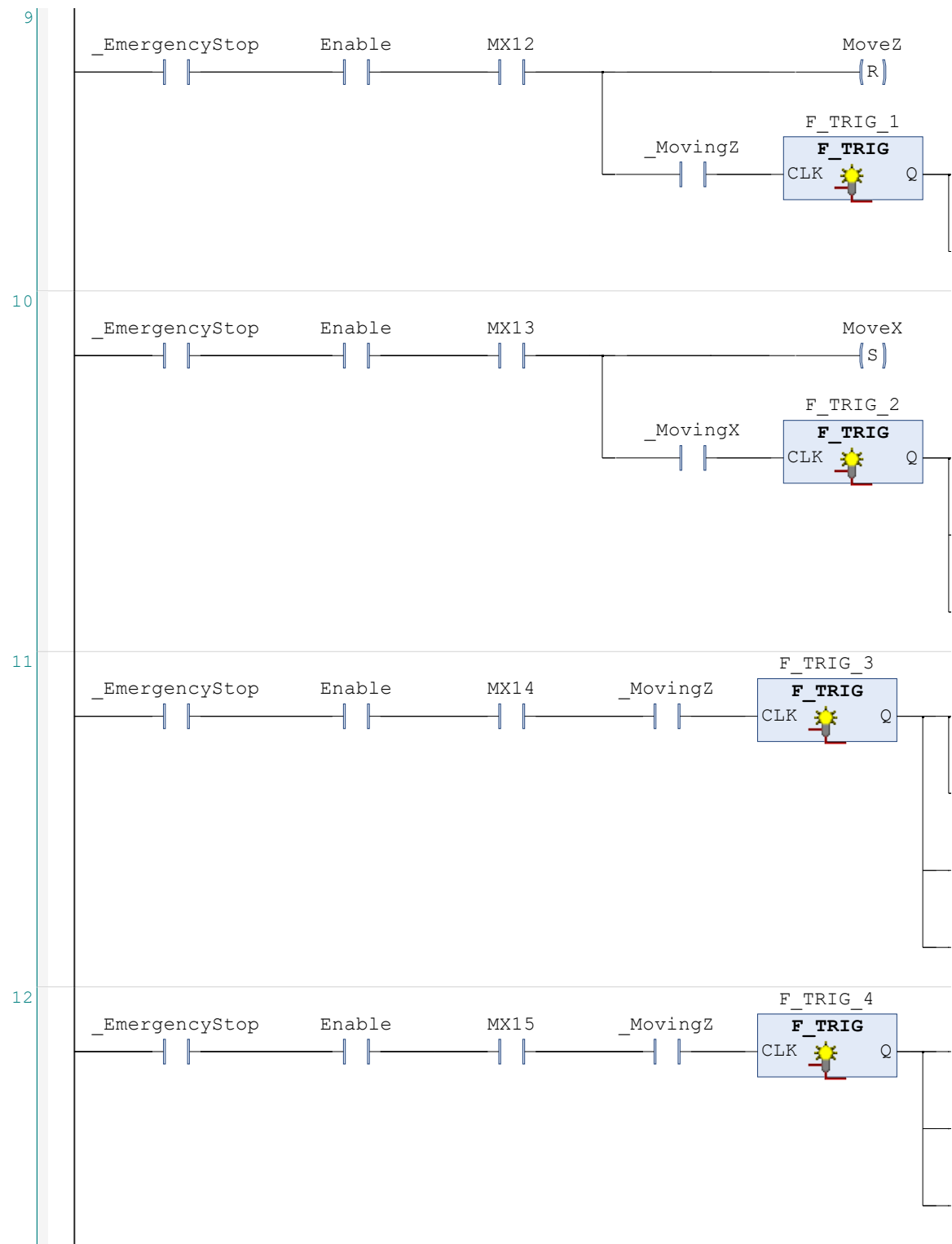
MX10  
(s)

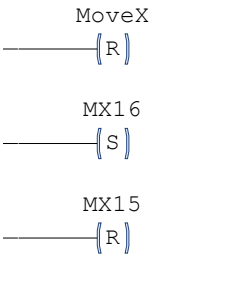
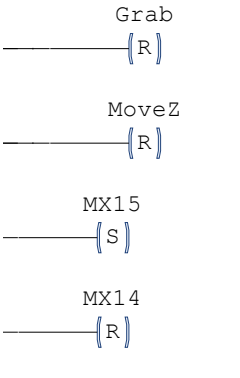
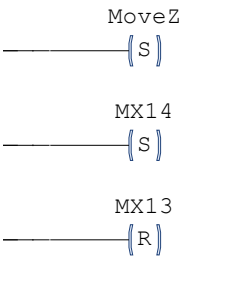
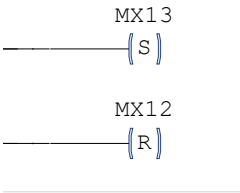
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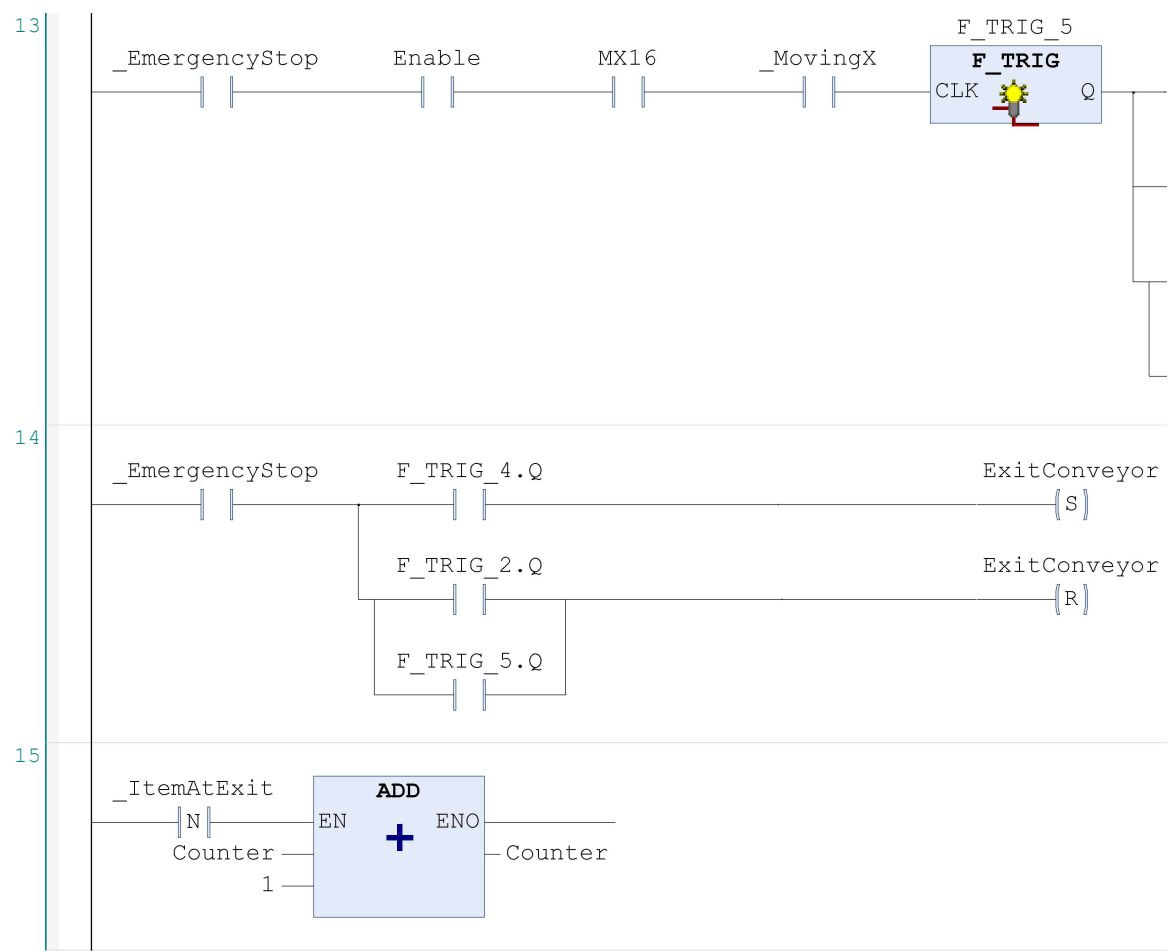
### 1.1.1.2 POU: PLC\_PRG

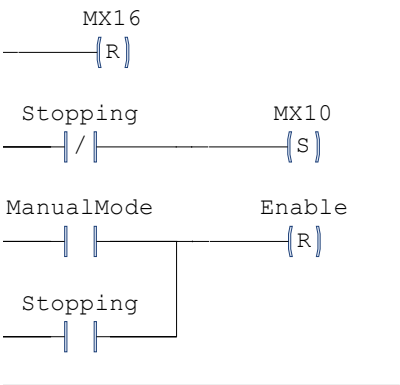












### 1.1.1.3 Symbol configuration: Symbols

### 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