

Project Documentation

File: Projekt_2_HMI_Kuligowski.project

Date: 2021-05-16

Profile: CODESYS V3.5 SP15 Patch 4

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1 Device: Device

Users and Groups

Users:

Groups:

Access Rights

View

Modify

Execute

Add/remove children

Symbol Rights

Information

Name: CODESYS HMI
Vendor: 3S - Smart Software Solutions GmbH
Categories: HMI devices
Type: 4101
ID: 0000 0001
Version: 3.5.15.40
Order number: 311000
Description: CODESYS V3 HMI

1.1 PLC Logic: Plc Logic

1.1.1 Application: Application

1.1.1.1 Data Sources Manager: Datasources

1.1.1.1.1 Data source: Datasource

1.1.1.2 Folder: DataSources_Objects

1.1.1.2.1 DUT: GeneratedType_2

```
1      //Code generated by Data Sources.
2      //Modifying generated code is not recommended!
3      TYPE GeneratedType_2 :
4      STRUCT
5          PLC_PRG : GeneratedType_3 ;
6      END_STRUCT
7      END_TYPE
8
```

1.1.1.2.2 DUT: GeneratedType_3

```
1      //Code generated by Data Sources.
2      //Modifying generated code is not recommended!
3      TYPE GeneratedType_3 :
4      STRUCT
5          CTU_0 : GeneratedType_4 ;
6          CTU_1 : GeneratedType_4 ;
7          D1 : BOOL ;
8          D2 : BOOL ;
9          D3 : BOOL ;
10         D4 : BOOL ;
11         out_D1 : BOOL ;
12         out_D2 : BOOL ;
13         out_D3 : BOOL ;
14         out_D4 : BOOL ;
15         Reset_ponizej : BOOL ;
16         Reset_powyzej : BOOL ;
17         S1_NO : BOOL ;
18         S2_NC : BOOL ;
19         Stan_licznika : WORD ;
20         Stan_licznika_dol : WORD ;
21         Wynik : UINT ;
22     END_STRUCT
23     END_TYPE
24
```

1.1.1.2.3 DUT: GeneratedType_4

```
1      //Code generated by Data Sources.
2      //Modifying generated code is not recommended!
3      TYPE GeneratedType_4 :
4      STRUCT
5          CU : BOOL ;
6          CV : WORD ;
7          PV : WORD ;
8          Q  : BOOL ;
9          RESET : BOOL ;
10     END_STRUCT
11     END_TYPE
12
```

1.1.1.2.4 Global Variable List: Datasource

```
1      //Code generated by Data Sources.
2      //Modifying generated code is not recommended!
3
4      VAR_GLOBAL
5          Application : GeneratedType_2 ;
6      END_VAR
7
```

1.1.1.2.5 Global Variable List: DatasourceConstants

```
1      //Code generated by Data Sources.
2      //Modifying generated code is not recommended!
3      VAR_GLOBAL CONSTANT
4          {implicit on}
5          Application : BOOL := FALSE ;
6          {implicit of}
7      END_VAR
8
```

1.1.1.3 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:

1.1.1.3.1 Task: DatasourcesTask

Priority: 31
Type: Cyclic
Interval: 50 Unit: ms
Watchdog: Inactive
POUs: Datasources.Datasources_PRG

1.1.1.3.1.1 Program Call: Datasources.Datasources_PRG

1.1.1.3.2 Task: VISU_TASK

Priority: 31
Type: Cyclic
Interval: 100 Unit: ms
Watchdog: Inactive
POUs: VisuElems.Visu_Prg

1.1.1.3.2.1 Program Call: VisuElems.Visu_Prg

1.1.1.4 Visualization Manager: Visualization Manager

Settings

Use CurrentVisu variable: False
Selected style: Basic style, 3.5.14.0 (3S-Smart Software Solutions GmbH)
Numpad: VisuDialogs.Numpad
Keypad: VisuDialogs.Keypad
Use text input with limits: False
Dialog for text input with limits: VisuDialogs.TextInputWithLimits
Support touch input (single/multi-touch): False
Support of semi-transparency: True
Login dialog: VisuUserManagement.VUM_Login
Change password dialog: VisuUserManagement.VUM_ChangePassword
Change configuration dialog: VisuUserManagement.VUM_UserManagement
Advanced settings: False
Size of memory for visualization: 400000
Size of paintbuffer (per client): 50000
File TransferMode: Transfer visualization files to the PLC
Maximum number of visualization clients: 100
Transfer svg and converted images to plc: False
Global open numpad/keypad type: OpenCentered

User Management

Settings in case of several applications
User management in PLC: True
User management data: Local

Font Settings: Language specific font settings

1.1.1.4.1 TargetVisu: TargetVisu

1.1.1.4.2 WebVisu: WebVisu

1.1.1.5 Visualization: Panel_HMI_wizualizacja



General

Visualization size algorithm version: Respecting scrollbar location

Background

Use background color: False

Background color: 16777215

Interface

VAR_IN_OUT

END_VAR

Visual Element List

Lamp1 Id: 0

Element name: GenElemInst_1

Type of element: Lamp1

Static optimized: False

Tooltip ID: 652

Position

X: 394

Y: 112

Width: 70

Height: 70

Variable: Application.PLC_PRG.out_D1

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Texts

Tooltip: D1

Background

Image: Green

Lamp1 Id: 1

Element name: GenElemInst_2

Type of element: Lamp1
Static optimized: False
Tooltip ID: 178
Position
X: 562
Y: 112
Width: 70
Height: 70
Variable: Application.PLC_PRG.out_D3
Image settings
Transparent: False
Transparent color: Black
Isotropic type: Isotropic
Horizontal alignment: Left
Vertical alignment: Top
Texts
Tooltip: D3
Background
Image: Green

● Lamp1 Id: 2
Element name: GenElemInst_3
Type of element: Lamp1
Static optimized: False
Tooltip ID: 247
Position
X: 397
Y: 264
Width: 70
Height: 70
Variable: Application.PLC_PRG.out_D2
Image settings
Transparent: False
Transparent color: Black
Isotropic type: Isotropic
Horizontal alignment: Left
Vertical alignment: Top
Texts
Tooltip: D2
Background
Image: Green

● Lamp1 Id: 3
Element name: GenElemInst_4
Type of element: Lamp1
Static optimized: False
Tooltip ID: 773
Position
X: 562
Y: 264
Width: 70
Height: 70
Variable: Application.PLC_PRG.out_D4
Image settings
Transparent: False
Transparent color: Black
Isotropic type: Isotropic
Horizontal alignment: Left
Vertical alignment: Top
Texts

Tooltip: D4
Background
Image: Green
● PushSwitch Id: 5
Element name: GenElemInst_6
Type of element: PushSwitch
Static optimized: False
Position
X: 195
Y: 99
Width: 70
Height: 70
Variable: Application.PLC_PRG.S1_NO
Image settings
Transparent: False
Transparent color: Black
Isotropic type: Isotropic
Horizontal alignment: Left
Vertical alignment: Top
Element behavior: Image tapper
Tap FALSE: False
Background
Image: Gray
⊗ DipSwitch Id: 4
Element name: GenElemInst_5
Type of element: DipSwitch
Static optimized: False
Position
X: 195
Y: 275
Width: 70
Height: 70
Variable: Application.PLC_PRG.S2_NC
Image settings
Transparent: False
Transparent color: Black
Isotropic type: Isotropic
Horizontal alignment: Left
Vertical alignment: Top
Element behavior: Image toggler
Tap FALSE: False
Background
Image: Gray
⌚ Label Id: 6
Element name: GenElemInst_7
Type of element: Label
Static optimized: True
Text ID: 769
Texts
Text: S1
Position
X: 101
Y: 99
Width: 70
Height: 70
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered

1.1.1.5 Visualization: Panel_HMI_wizualizacja

Text format: Default
Font: Arial;40;Bold;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

Label Id: 9
Element name: GenElemInst_9
Type of element: Label
Static optimized: True
Text ID: 733
Texts
Text: S2
Position
X: 101
Y: 275
Width: 70
Height: 70
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered
Text format: Default
Font: Arial;40;Bold;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

Label Id: 10
Element name: GenElemInst_10
Type of element: Label
Static optimized: True
Text ID: 101
Texts
Text: Zliczanie w gore
Position
X: 155
Y: 248
Width: 150
Height: 30
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered
Text format: Default
Font: Arial;12;Regular;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

Label Id: 12
Element name: GenElemInst_12
Type of element: Label
Static optimized: True
Text ID: 12
Texts
Text: Zliczanie w dol
Position
X: 155
Y: 345
Width: 150
Height: 30
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered
Text format: Default

Font: Arial;12;Regular;Font-Default-Color, Color [A=255, R=0, G=0, B=0]

Font color

Transparency: 255

2 GlobalTextList: GlobalTextList

3 Visualization: Panel_HMI_wizualizacja



General

Visualization size algorithm version: Respecting scrollbar location

Background

Use background color: False

Background color: 16777215

Interface

VAR_IN_OUT

END_VAR

Visual Element List

● Lamp1 Id: 0

Element name: GenElemInst_1

Type of element: Lamp1

Static optimized: False

Tooltip ID: 652

Position

X: 394

Y: 112

Width: 70

Height: 70

Variable: PLC_PRG.out_D1

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Texts

Tooltip: D1

Background

Image: Green

● Lamp1 Id: 1

Element name: GenElemInst_2

Type of element: Lamp1

Static optimized: False

Tooltip ID: 178

Position

X: 562

Y: 112

Width: 70

Height: 70

Variable: PLC_PRG.out_D3

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Texts

Tooltip: D3

Background

Image: Green

● Lamp1 Id: 2

Element name: GenElemInst_3

Type of element: Lamp1

Static optimized: False

Tooltip ID: 247

Position

X: 394

Y: 264

Width: 70

Height: 70

Variable: PLC_PRG.out_D2

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Texts

Tooltip: D2

Background

Image: Green

● Lamp1 Id: 3

Element name: GenElemInst_4

Type of element: Lamp1

Static optimized: False

Tooltip ID: 773

Position

X: 562

Y: 264

Width: 70

Height: 70

Variable: PLC_PRG.out_D4

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Texts

Tooltip: D4

Background

Image: Green

● PushSwitch Id: 5

Element name: GenElemInst_6

Type of element: PushSwitch

Static optimized: False

Position

X: 195

Y: 99

Width: 70

Height: 70

Variable: PLC_PRG.S1_NO

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Element behavior: Image tapper

Tap FALSE: False

Background

Image: Gray

● DipSwitch Id: 4

Element name: GenElemInst_5

Type of element: DipSwitch

Static optimized: False

Position

X: 195

Y: 275

Width: 70

Height: 70

Variable: PLC_PRG.S2_NC

Image settings

Transparent: False

Transparent color: Black

Isotropic type: Isotropic

Horizontal alignment: Left

Vertical alignment: Top

Element behavior: Image toggler

Tap FALSE: False

Background

Image: Gray

T Label Id: 6

Element name: GenElemInst_7

Type of element: Label

Static optimized: True

Text ID: 769

Texts

Text: S1

Position

X: 101

Y: 99

Width: 70

Height: 70

Text properties

Horizontal alignment: Centered

Vertical alignment: Centered
Text format: Default
Font: Arial;40;Bold;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

└ Label Id: 9
Element name: GenElemInst_9
Type of element: Label
Static optimized: True
Text ID: 733
Texts
Text: S2
Position
X: 101
Y: 275
Width: 70
Height: 70
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered
Text format: Default
Font: Arial;40;Bold;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

└ Label Id: 10
Element name: GenElemInst_10
Type of element: Label
Static optimized: True
Text ID: 101
Texts
Text: Zliczanie w gore
Position
X: 155
Y: 248
Width: 150
Height: 30
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered
Text format: Default
Font: Arial;12;Regular;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

└ Label Id: 12
Element name: GenElemInst_12
Type of element: Label
Static optimized: True
Text ID: 12
Texts
Text: Zliczanie w dol
Position
X: 155
Y: 345
Width: 150
Height: 30
Text properties
Horizontal alignment: Centered
Vertical alignment: Centered

Text format: Default
Font: Arial;12;Regular;Font-Default-Color, Color [A=255, R=0, G=0, B=0]
Font color
Transparency: 255

4 : Project Settings

Static Analysis Light:

Unused variables (#33): 0
Overlapping memory areas (#28): 0
Write access from several tasks (#6): 0
Multiple write access on output (#4): 0
Multiple uses of identifiers (#27): 0
Report temporary FunctionBlock instances (#167): 0