



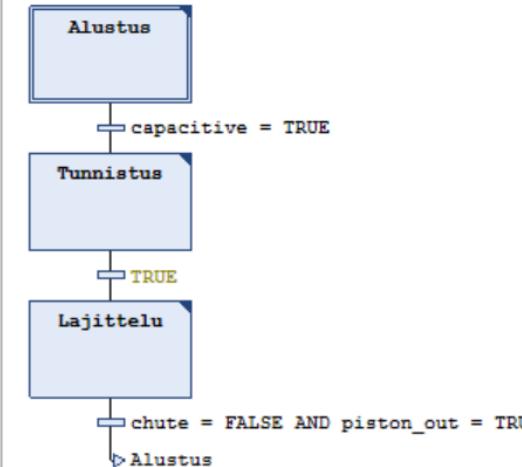
Devices

BallSorting_student1

- Device (CODESYS Control Win V3)
 - PLC Logic
 - Application
 - BALL (STRUCT)
 - PISTON (STRUCT)
 - Library Manager
 - Model (PRG)
 - PLC_PRG (PRG)
 - Alustus_active
 - Lajittelu_active
 - Tunnistus_active
 - Task Configuration
 - MainTask (IEC-Tasks)
 - Model
 - PLC_PRG
 - Visualization Manager
 - Visualization

PLC_PRG X PLC_PRG.Alustus_active PLC_PRG.Tunnistus_active PLC_PRG.Lajittelu_active

```
1 PROGRAM PLC_PRG
2 VAR_INPUT
3     piston_in:BOOL;
4     piston_out:BOOL;
5     capacitive:BOOL;
6     optical:BOOL;
7     inductive:BOOL;
8     chute:BOOL;
9 END_VAR
10 VAR_OUTPUT
11     eject:BOOL;
12     gate1:BOOL;
13     gate2:BOOL;
14 END_VAR
```



Properties

Property	Value



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PLC_PRG

1 gate1 := FALSE;
2 gate2 := FALSE;
3 eject := FALSE;

PLC_PRG.Alustus_active

PLC_PRG.Tunnistus_active

PLC_PRG.Lajittelu_active

Properties

Filter | Sort by ▲ Sort order ▼

Property	Value



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PLC_PRG

PLC_PRG.Alustus_active

PLC_PRG.Tunnistus_active

PLC_PRG.Lajittelu_active

```
1 IF inductive = TRUE THEN;
2     gate1 := TRUE;
3 ELSIF optical = TRUE AND inductive = FALSE THEN;
4     gate2 := TRUE;
5 END_IF
```

Properties

Filter | Sort by ▲ Sort order ▼

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PLC_PRG

1 eject := TRUE;

PLC_PRG.Alustus_active

PLC_PRG.Tunnistus_active

PLC_PRG.Lajittelu_active

Properties

Filter | Sort by ▲ Sort order ▼

Property	Value
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Reflektointi

Järjestelmässä turhia antureita ovat työntömännän anturit *piston in* ja *piston out*. Käyttämättä antureiden arvoja, työntömäntä oltaisiin voitu ohjelmoida siten, että työnettyään pallon kuiluun, se palaisi tietyn ajan kuluttua automaattisesti takaisin alkuasentoon. Tämä oltaisiin voitu toteuttaa helposti esimerkiksi FDB-kielen TOF-lohkolla (Timer Off-Delay).