

**Example 5: Cyclic operation with event-triggered change of curve**

- 2 curves with the same clock distances: S-curve without standstill area and straight line
- digital input for quadratic coupling and decoupling
- digital input for switching of curve
- Master reference must be kept with exactly the same increments during the change
- The master position acquisition must continue in decoupled state

**Corresponding files:**

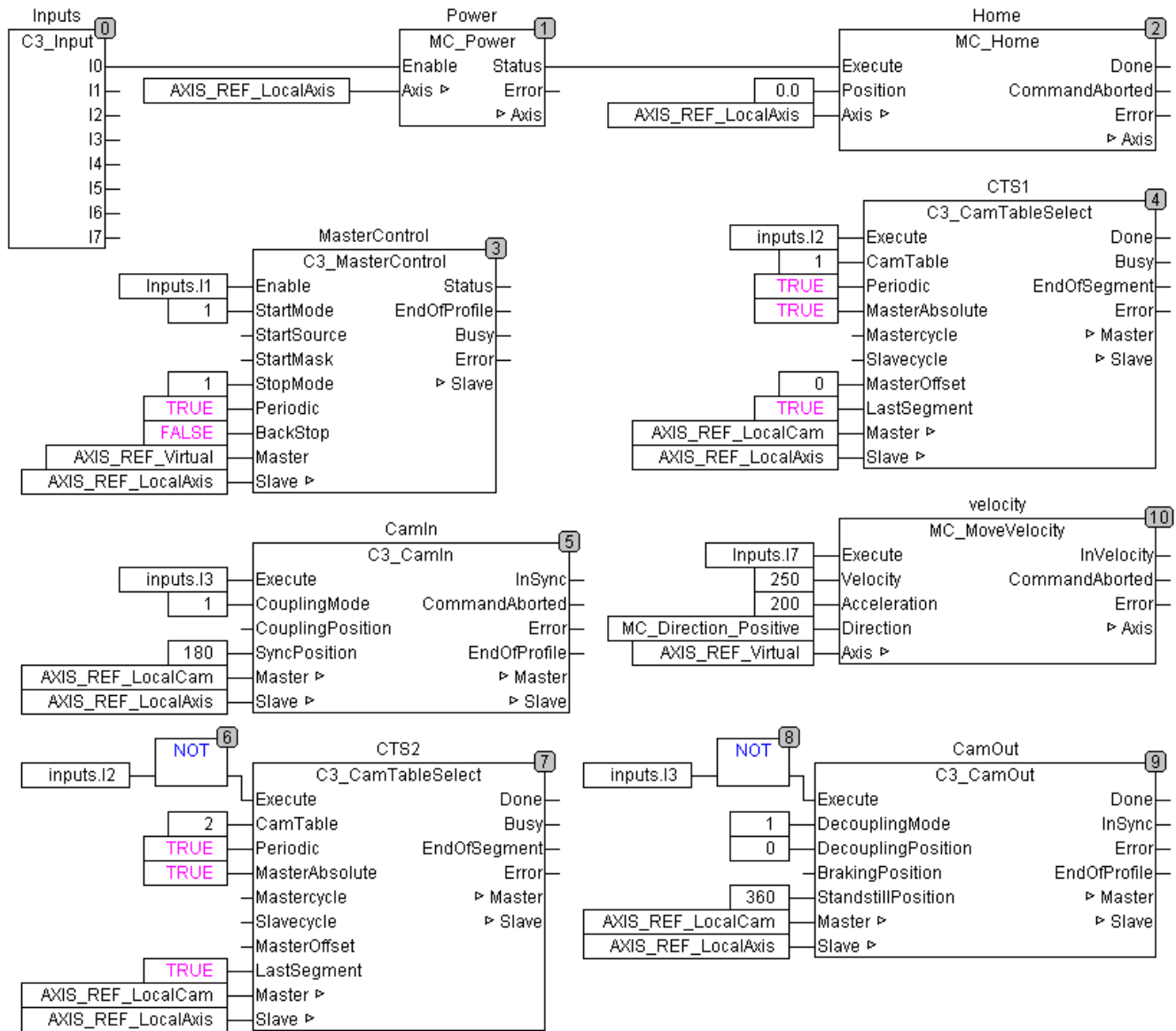
CamExample05.C3P (Compax3 project on the Compax3 CD:\Examples\Example5)

CamExample05.pro (CoDeSys project on the Compax3 CD:\Examples\Example5)

**Control interface:**

<b>Input</b>	<b>Function</b>
10	Energize axis, Homing
11	Enable and start of the master position detection
12	Selection of cam
13	Coupling / Decoupling
14	Free
15	Free
16	Free
17	Start of the virtual master

**Solution:**



**Explanations:**

- Via Input I2 either curve 1 (CTS1) or curve 2 (CTS2) is activated, both in the absolute mode (MasterAbsolute=TRUE).
- The detection starts with I1 (MasterControl).
- Coupling in takes place with rising edge of I3, decoupling takes place with falling edge of I3.