Counter_Blade_Control [FC2]

Counter_Blade_Control Properties							
General							
Name	Counter_Blade_Control	**Number**	2	**Type**	FC	**Language**	SCL
Numbering	Automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
▼ Input		
atExit	Bool	
resetCounter	Bool	
atBufferExit	Bool	
atBufferEntry	Bool	
▼ Output		
counterDisplay	DInt	
resetLight	Bool	
stopBlade	Bool	
InOut		
Temp		
Constant		
▼ Return		
Counter_Blade_Control	Void	

```
0001 // Counter Box Logic
0002 REGION Box Counter
0003   // At Exit sensor activate Risind Edge
0004   "F_TRIG_COUNT"(CLK:=#atBufferEntry,
0005           Q=>"Data".Counter_Box.fTrigger);
0006    // Reset button gets counter to 0
0007    IF #resetCounter OR "Data".HMI.resetButton THEN
0008      "Data".Counter_Box.currentCount := 0;
0009      #resetLight := TRUE;
0010      // When the Falling Edge is activated, the count value increase 1
0011    ELSIF "Data".Counter_Box.fTrigger THEN
0012      "Data".Counter_Box.currentCount := "Data".Counter_Box.currentCount + 1;
0013    END_IF;
0014    #counterDisplay := "Data".Counter_Box.currentCount;
0015 END_REGION
0016
0017 // Blade Control Logic
0018 REGION Blade Control
0019   IF "Data".S_R_Conveyors THEN
0020     // At Buffer Exit sensor activate Rising Edge
0021     "R_TRIG_Blade"(CLK := #atBufferExit,
0022              Q => "Data".freqBufferConveyor.setBlade);
0023     // RESET Blade
0024     // At Exit sensor reset blade via Rising Edge or if the current counter is less than 2
0025     "R_TRIG_Exit"(CLK := #atExit,
0026             Q => "Data".freqBufferConveyor.resetBlade);
0027     IF "Data".freqBufferConveyor.resetBlade OR "Data".Counter_Box.currentCount = 0 THEN
0028       "Data".freqBufferConveyor.stopBladeState := FALSE;
0029       // SET Blade
0030     ELSIF "Data".freqBufferConveyor.setBlade THEN
0031       "Data".freqBufferConveyor.stopBladeState := TRUE;
0032     END_IF;
0033   END_IF;
0034   #stopBlade := "Data".freqBufferConveyor.stopBladeState;
0035 END_REGION
0036
0037
```