

VARIABLES

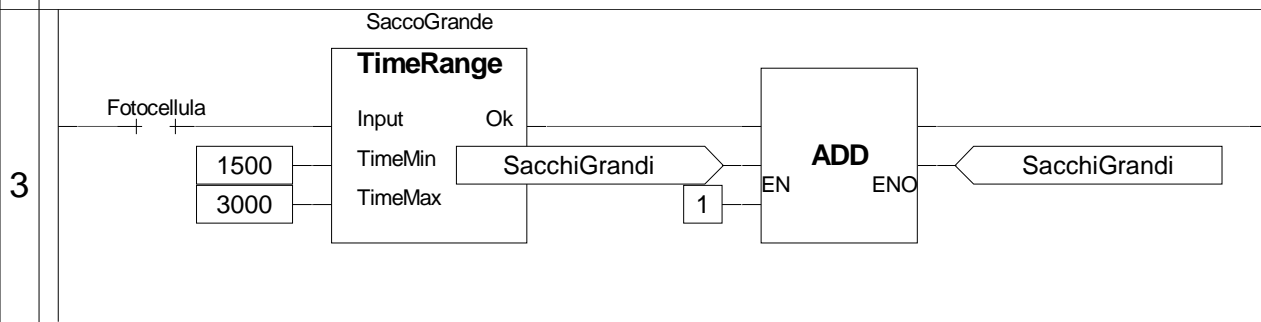
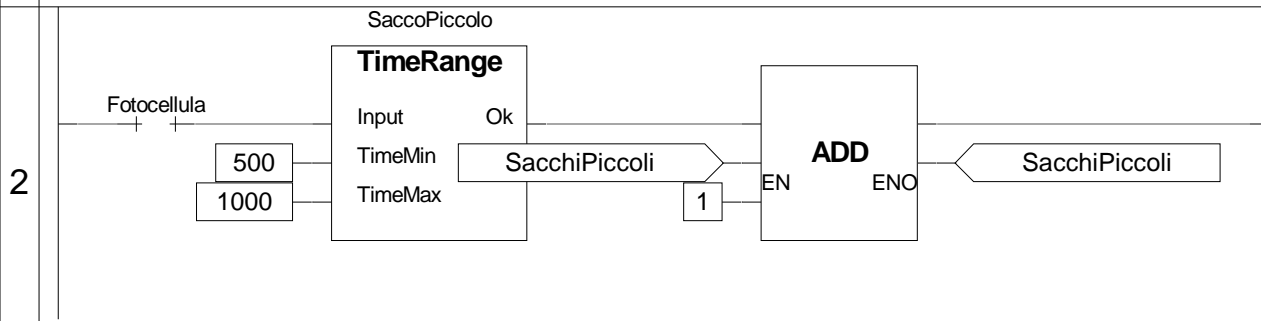
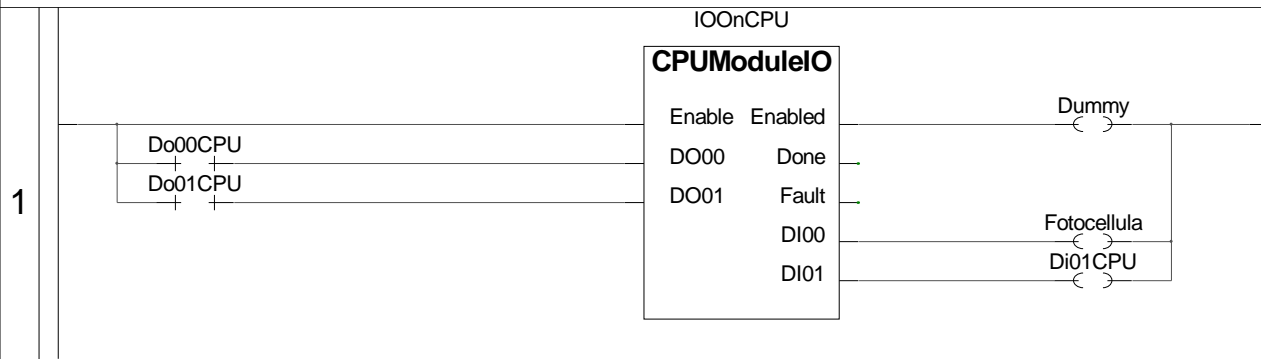
```

VAR_GLOBAL
Fotocellula : BOOL; (* Ingresso fotocellula *)
SacchiPiccoli AT %MW100.16 : UINT; (* Numero sacchi piccoli *)
SacchiGrandi AT %MW100.18 : UINT; (* Numero sacchi grandi *)
Di01CPU : BOOL; (* Di01 su modulo CPU *)
Do00CPU : BOOL; (* Do00 su modulo CPU *)
Do01CPU : BOOL; (* Do01 su modulo CPU *)
END_VAR
    
```

	Project : BagCounter	
	VARIABLES :	
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VAR
SaccoPiccolo : TimeRange; (* FB controllo sacco piccolo *)
SaccoGrande : TimeRange; (* FB controllo sacco grande *)
IOOnCPU : CPUModuleIO; (* FB acquisizione I/O su modulo CPU *)
Dummy : BOOL; (* Dummy variable *)
END_VAR
    
```



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PROGRAM : BagCounter	
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VAR_INPUT
Input : BOOL; (* Input to detect *)
TimeMin : UINT; (* Minimum time (S) *)
TimeMax : UINT; (* Maximum time (S) *)
END_VAR

VAR_OUTPUT
Ok : BOOL; (* Time in range *)
END_VAR

VAR_EXTERNAL
SysTime : UDINT; (* System time (mS) *)
END_VAR

VAR
Pulse : BOOL; (* Pulse detection *)
TimeBf : UDINT; (* Buffer gestione tempo *)
TimeActive : UDINT; (* Tempo attivazione ingresso (mS) *)
END_VAR
    
```

```

1 (* ***** *)
2 (* FUNCTION BLOCK "TimeRange" *)
3 (* ***** *)
4 (* Questo blocco funzione controlla se l'ingresso rimane attivo per un tempo *)
5 (* compreso tra i valori "Min" e "Max". Se compreso si attiva per un loop *)
6 (* l'uscita di "Ok". *)
7 (* ----- *)
8 (* Eseguo reset uscite impulsive. *)
9
10 Ok:=FALSE; (* Time in range *)
11
12 (* Eseguo controllo se variazione stato ingresso. *)
13
14 IF (Input = Pulse) THEN RETURN; END_IF;
15 Pulse:=Input; (* Pulse detection *)
16
17 (* Controllo attivazione ingresso, su attivazione salvo tempo. *)
18
19 IF (Input) THEN
20     TimeBf:=SysTime; (* Buffer gestione tempo *)
21 END_IF;
22
23 (* Controllo disattivazione ingresso, su disattivazione controllo *)
24 (* tempo trascorso e gestisco counter relativo. *)
25
26 IF NOT(Input) THEN
27     TimeActive:=SysTime-TimeBf; (* Tempo attivazione ingresso (mS) *)
28
29     (* Controllo se tempo di attivazione compreso tra valori di soglia. *)
30
31     IF (TimeActive >= TimeMin) AND (TimeActive <= TimeMax)THEN
32         Ok:=TRUE; (* Time in range *)
33     END_IF;
34 END_IF;
35
36 (* [End of file] *)
37
    
```

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FUNCTION BLOCK : TimeRange	
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	FUNCTION BLOCK : TimeRange	
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FUNCTION\_BLOCK CPUModuleIO

(SFR054B000) Manages the logic I/O on the CPU module  
ENCRYPTED CODE

```
VAR_INPUT
Enable : BOOL; (* Function enable *)
DO00 : BOOL; (* Digital output 0 *)
DO01 : BOOL; (* Digital output 1 *)
END_VAR

VAR_OUTPUT
Enabled : BOOL; (* Function enabled *)
Done : BOOL; (* Function done *)
Fault : BOOL; (* Function fault *)
DI00 : BOOL; (* Digital input 0 *)
DI01 : BOOL; (* Digital input 0 *)
END_VAR
```

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	FUNCTION BLOCK : CPUModuleIO	
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