

Energy_Drink_V15.1 / ENERGY_DRINK_PROC [CPU 314C-2 PN/DP] / Program blocks / 05-CONVEYOR MANAGEMENT

CONVEYOR_BELT [FC10]

CONVEYOR_BELT Properties							
General							
Name	CONVEYOR_BELT	Number	10	Type	FC	Language	FBD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

CONVEYOR_BELT				
Name	Data type	Offset	Default value	Comment
▼ Input				
Conveyor_Cmd	Bool			
Time_Act	Time			
Output				
InOut				
Temp				
Constant				
▼ Return				
CONVEYOR_BELT	Void			

Network 1: *****COMMANDS AND CONDITIONS TO MANAGE CONVEYOR BELT*****/

```
0001 // WHEN SCALE IS FINISHED WEIGHING ALL THE PRODUCTS => BACH IN PROGRESS =1
0002 // SEND COMMAND TO ACTIVATE THE CONVEYOR BELT
0003     U      #Conveyor_Cmd
0004     FP     "FP_Conveyor_Act"
0005     S      "Var_System_DB".System_Generic.Mixer_Station
0006
0007     U      "Var_System_DB".System_Generic.Mixer_Station
0008     FP     "Tag_14"
0009     =      "Var_System_DB".Conveyor_Belt.Motor_Cmd
0010
0011
0012 // TIMER ACTIVATION: IF FN PULSE OF CONVEYOR_CMD => SET TIMER_ACT
0013     U      #Conveyor_Cmd
0014     FN     "FN_Bach_in_Prog"
0015     =      "Var_System_DB".Conveyor_Belt.Timer_Act
0016
0017 // IF TIMER_ACT = 1 => ACTIVATE TIMER
0018     CALL   TP , "T_CONVEYOR"
0019         Time
0020         IN := "Var_System_DB".Conveyor_Belt.Timer_Act
0021         PT := #Time_Act
0022         Q  :=
0023         ET :=
0024
0025
0026 // IF TIMER.Q => SEND PULSE TO RESET MOTOR_CMD
0027     U      "T_CONVEYOR".Q
0028     FN     "FN_TIMER.Q"
0029     R      "Var_System_DB".Conveyor_Belt.M_Stop
0030
0031
0032 // SEND PULSE TO SET STOP COMMAND TO ITS NORMAL POSITON "NC" WHEN FN OF FEEDBACK
0033     U      "Var_System_DB".Conveyor_Belt.M_Feedback
0034     FN     "FN_STOP_CMD"
0035     S      "Var_System_DB".Conveyor_Belt.M_Stop
0036     S      "Var_System_DB".System_Generic.Conveyor_Station
0037
0038
0039 // RESET CONVEYOR STATION
0040     U      "AGITATOR_TIMER_DB".Q
0041     R      "Var_System_DB".System_Generic.Conveyor_Station
0042
0043 // MOTOR MEMORY STATE: IN CASE STOP BUTTON IS PRESSED AND THE MOTOR WAS ACTIVE,
0044 // WE WANT TO KEEP THE MOTOR "ON" AFTER THE STOP BUTTON IS REALESED AGAIN
0045     U      "Var_System_DB".Conveyor_Belt.M_Feedback
0046     S      "Var_System_DB".Conveyor_Belt.State
0047
0048 // RESET BELT STATE BIT
0049     UN     "Var_System_DB".System_Generic.Stop_Process
0050     UN     "Var_System_DB".System_Generic.System_Failure
0051     O(
0052     U      "Var_System_DB".System_Generic.Start
0053     FN     "Tag_27"
0054     )
0055     R      "Var_System_DB".Conveyor_Belt.State
0056
```

Network 2: ***** CONVEYOR BELT MOTOR ACTIVATION*****/

