FC9 - <offline>

"Temporizadores"

Nombre: **Familia:**
Autor: **Versión:** 0.1
Versión del bloque: 2
Hora y fecha Código: 25/08/2022 16:38:17
Interface: 25/08/2022 14:42:40
Longitud (bloque / código / datos): 00128 00034 00000

Nombre	Tipo de datos	Dirección	Comentario
IN		0.0	
OUT		0.0	
IN_OUT		0.0	
TEMP		0.0	
RETURN		0.0	
RET_VAL		0.0	

Bloque: FC9 TIMER AND COUNTER MANAGEMENT

These have been put apart from their corresponding logic due to the fact that I
am using Loops for the implementation of Finite State Machines.

So by using loops, in this case a SPL "CASE" loop, the counter and timer were
getting frozen between cycles inside the loops and could not re-start them, so
I chose to put them aside inside this FC.

Segm.: 1 TIMER TO COUNT THE TIME PASSED BETWEEN BOXES

```
// If Table busy with a box => Activate timer
      U     "tableBusyBit"  M10.7
      L     S5T#5S
      SE    "TimerPath"     T0
```

Segm.: 2 BOXES ON CONVEYOR BELT COUNTER

```
// Increment counter by 1 when entry sensor active
      U     "Var System Inputs".entrySensor     DB1.DBX0.4        -- Variable comodín provisional
      ZV    "BoxCounter"                        Z0                -- Counts  the number of boxes on the conve
                                                yor belt

// Decrement counter by 1 when box entering turn table
      U     "Var System Inputs".turnTableEntry  DB1.DBX0.7
      FN    "OnsDiscountBox"                    M252.5
      ZR    "BoxCounter"                        Z0                -- Counts  the number of boxes on the conve
                                                yor belt

// Load data into var Number of boxes to compare values
      L     "BoxCounter"                        Z0                -- Counts  the number of boxes on the conve
                                                yor belt
      T     "NumberOfBoxes"                     MW28
```