Totally Integ	rated						
Automation	PORTAI						
ain [OB1]							
ain Properties eneral	Main	Number 1		Trunc	ОВ	Language	LAD
ame umbering formation	Automatic	Number		Туре	ОВ	Language	LAU
tle	"Main Program Sweep (Cycle)"	Author		Comment		Family	
ersion	0.1	User-defined ID Data type	Default value		Comment		
nput Initial_Cal	I	Bool			Initial call of this C		
Remanen Temp	ce	Bool			=True, if remanen	t data are available	
Constant etwork 1:							
		%FC1 "Secuencia" — EN ENC					
		LIV					
etwork 2:							
		%FC2					
		"Seguridad" — EN ENC					
		<u> </u>					
etwork 3: E	scalado Salidas Analog	icas					
			%FC4 "Escalado_AQ				
		"DB_Sister Consigna Man_'	na". SP_	Salida — "SP_Manual"	1		
		10	/alv — Comando 0.0 — MAX_Comando 0.0 — MIN_Comando				
		27	MAX_Actuador MIN_Actuador				
			%FC4 "Escalado_AQ ———— EN	" ENO ———			
		"DB_Sister Consigna Auto	na".	%QW30 Salida — "SP_Velocida	d"		
		600	MAX_Comando 0.0 MIN_Comando 648 MAX_Actuador				
			0 — MIN_Actuador				
		<u>'</u>					

|--|

Secuencia [FC1]

Secuencia Prope	rties						
General							
Name	Secuencia	Number	1	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment	
Input				
Output				
InOut				
Temp				
Constant				
▼ Return				
Secuencia	Void			

Network 1:

```
"DB_Sistema". "DB_Sistema". Seguridad. Seguridad. Parada_ Parada_ Parada_ Emergencia "Arranque_L" "Selectora_LR" | Paso[1] | P
```

Network 2: Comando acople junta neumática

```
"DB_Sistema".
Paso[1]
                         "DB_Sistema".
Paso[2]
                                                                                                     %Q10.1
"CMD_Junta"
                               <del>-</del>1/1-
                                                                                                         -( s )-
                                                                               %DB2
                                                                          "Delay_acople
                                                                                TON
                                                                                                    %Q10.0
"CMD_Motor"
                                                                                Time
                                                                                                         -( s )-
                                                                           IN
                                                                T#1s — PT
                                                                                        ET — T#0ms
                                                  "DB_Sistema".
Lecturas.
Velocidad
                                                                                                    "DB_Sistema".
Paso[2]
                                                                                                          (s)_
                                                      Real
                                                       478.0
```

Network 3: Comando chispero 1

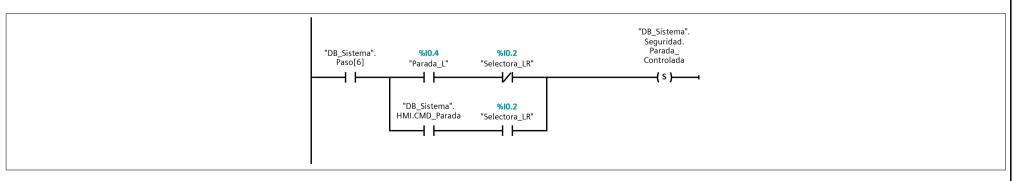
```
"DB_Sistema".
Paso[3]
"DB_Sistema".
Paso[2]
                                                                                             %Q10.2
"CMD_Chispero1"
     -| |-
                                                                                                     (s)—
                                                                                             %Q10.3
"CMD_Chispero2"
                                                                         %DB3
"Delay_
Chisperos"
                                                                                                                       %Q10.7
"CMD_Manual
Automático"
                                                                          TON
                                                                           Time
                                                                                                                            -( R )-
                                                            T#2s — PT
                                                                                   ET — T#0ms
                                                                                                                                               MOVE
                                                                        %I0.6
"Sensor_Q2"
                                                                                               "DB_Sistema".
Paso[3]
                                                                                                                                               EN
                                                    %10.5
                                                                                                                                     10.0 — IN
                                                 "Sensor_Q1"
                                                                                                                                                   "DB_Sistema".
Consigna.SP_
- OUT1 — Man_Valv
```

Network 4: Comando chispero 1

Totally Integrated **Automation Portal** "DB_Sistema". Paso[3] "DB_Sistema". Paso[4] MOVE 25.0 — IN "DB_Sistema". Consigna.SP_ Man_Valv d OUT1 %Q10.2 "CMD_Chispero1" -(R)-%Q10.3 "CMD_Chispero2" -(R)-"DB_Sistema". Lecturas. "DB_Sistema". Paso[4] Velocidad -(s)-2750.0 Network 5: Comando acople junta neumática

Network 6: Comando al sistema de control 0 = MANUAL; 1 = AUTO

Network 7: Condiciones para Parada Controlada



Network 8: Parada Controlada

Totally Integrated
Automation Portal

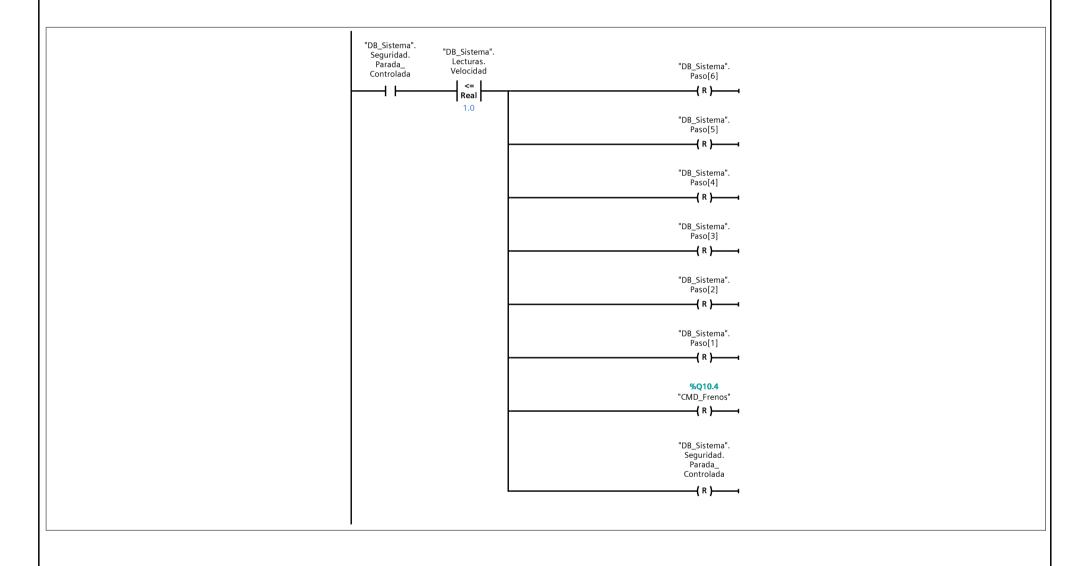
"DB_Sistema".
Seguridad.
Parada_
Parada_
Controlada

Controlada

```
"DB_Sistema".
Seguridad.
Parada_
Controlada
                                                                                       %Q10.7
"CMD_Manual Automático"
                     "Delay_Parada
Ctrl".Q
                                           MOVE
                                           EN - ENO
                                           "DB_Sistema".
Consigna.SP_

OUT1 — Man_Valv
                                  10.0 — IN
                                                %DB5
                                           "Delay_Parada
Ctrl"
                                            TON
Time
                                                                                                            MOVE
                                                                                                     0.0 — IN
                                                                                                            "DB_Sistema".
Consigna.SP_
dan_Valv
                                T#10s — PT ET — T#0ms
                     "DB_Sistema".
Lecturas.
Velocidad
                                                                                       %Q10.4
"CMD_Frenos"
                          <=
Real
                                                                                            -( s )--
                         2500.0
```

Network 9: Reinicio Secuencia



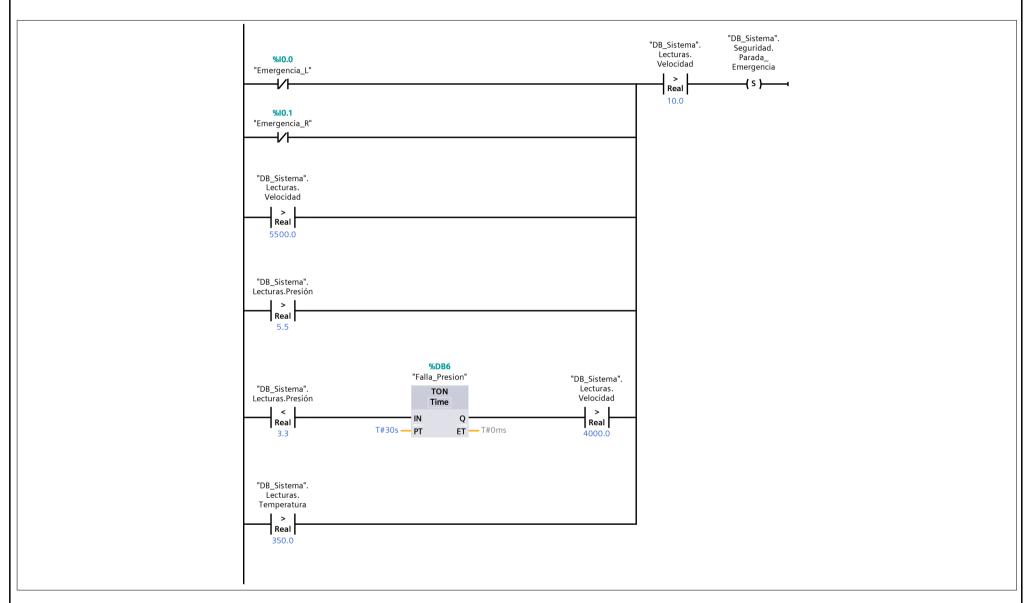
•

Seguridad [FC2]

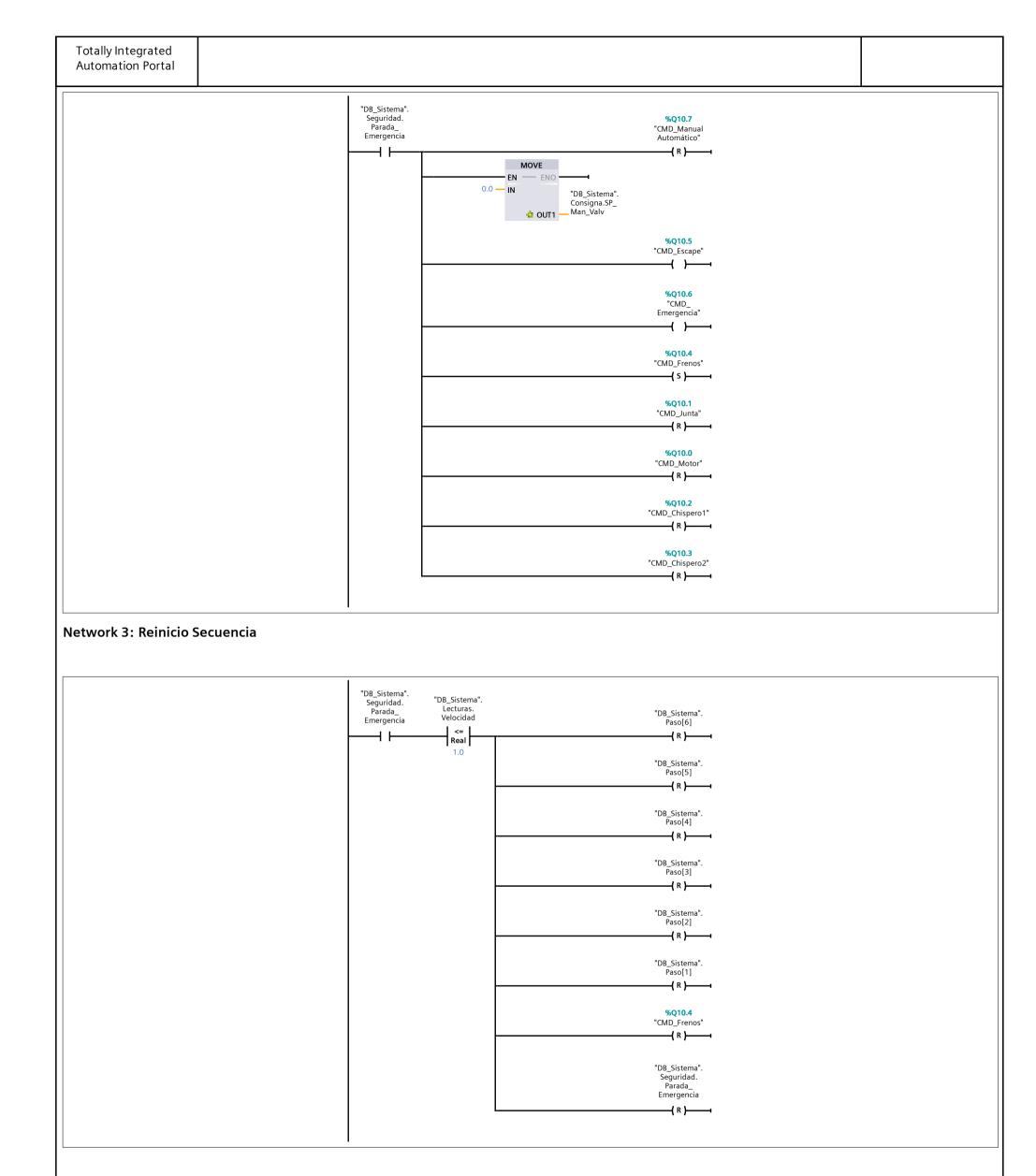
Seguridad Prope	erties						
General							
Name	Seguridad	Number	2	Туре	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
Input			
Output			
InOut			
Temp			
Constant			
▼ Return			
Seguridad	Void		

Network 1: Indicacion Parada de Emergencia



Network 2: Comando al sistema de control 0 = MANUAL; 1 = AUTO



alado_Al Pr	AI [FC3]										
ilado_Ai Pro ieral	operties										
ne	Escalado_Al		Number	3		Туре	FC	Lang	uage	LAD	
nbering rmation	Automatic										
.	0.1		Author			Comment		Fami	ly		
sion	0.1		User-defined ID								
ne nput			Data type		Default value		Comment				
Sensor			Int								
MAX_Ser	nsor		Real								
MIN_Sen			Real								
MAX_Car MIN_Can			Int Int								
Dutput											
Sensor_E	scalado		Real								
nOut											
emp Sensor N	Normalizado		Real								
Sensor_N Constant	voi i i i a ii ZaUO		neai								
Return											
Escalado,	_AI		Void								
		#MAX				#MAX_Sensor -	VALUE MAX				
						#MAX_Sensor –	МАХ				
						#MAX_Sensor –	MAX				
						#MAX_Sensor -	MAX				
						#MAX_Sensor =	MAX				
						#MAX_Sensor =	MAX				
						#MAX_Sensor =	MAX				
						#MAX_Sensor -	MAX				
						#MAX_Sensor -	MAX				
						#MAX_Sensor -	MAX				
						#MAX_Sensor -	MAX				
						#MAX_Sensor -	MAX				

Totally Integrated Automation Porta	ed tal										
calado_AQ	[FC4]										
alado_AQ Proper ieral	rties										
	calado_AQ	Nu	ımber	4		Туре	FC		Language	LAD	
nbering Aut	utomatic					- 3 -					
rmation											
2		Αι	ıthor			Comment			Family		
ion 0.1	1		er-defined ID)							
ie			Data type	D	efault value		Comment				
nput											
Comando			Real								
MAX_Comand	do		Real								
MIN_Comando			Real								
MAX_Actuado			Int								
MIN_Actuador			Int								
Output	•										
			Lat								
Salida			Int								
nOut											
emp											
Normalizado			Real								
onstant											
eturn											
Escalado_AQ			Void								
L3CalaUO_AQ			void								
work 1:											
			NO Real	DRM_X to Real			SCALE_X Real to Int				
			EN	EN			EN	— ENO			
		#MIN_Comando #Comando	— MIN	Ol	UT — #Normalizado	#MIN_Actuador #Normalizado		out —	# >alida		
		#MAX_Comando	— MAX			#MAX_Actuador	— MAX				
		<u>.</u>									
		<u>'</u>									
		<u>'</u>									
		<u>'</u>									
		<u>'</u>									
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