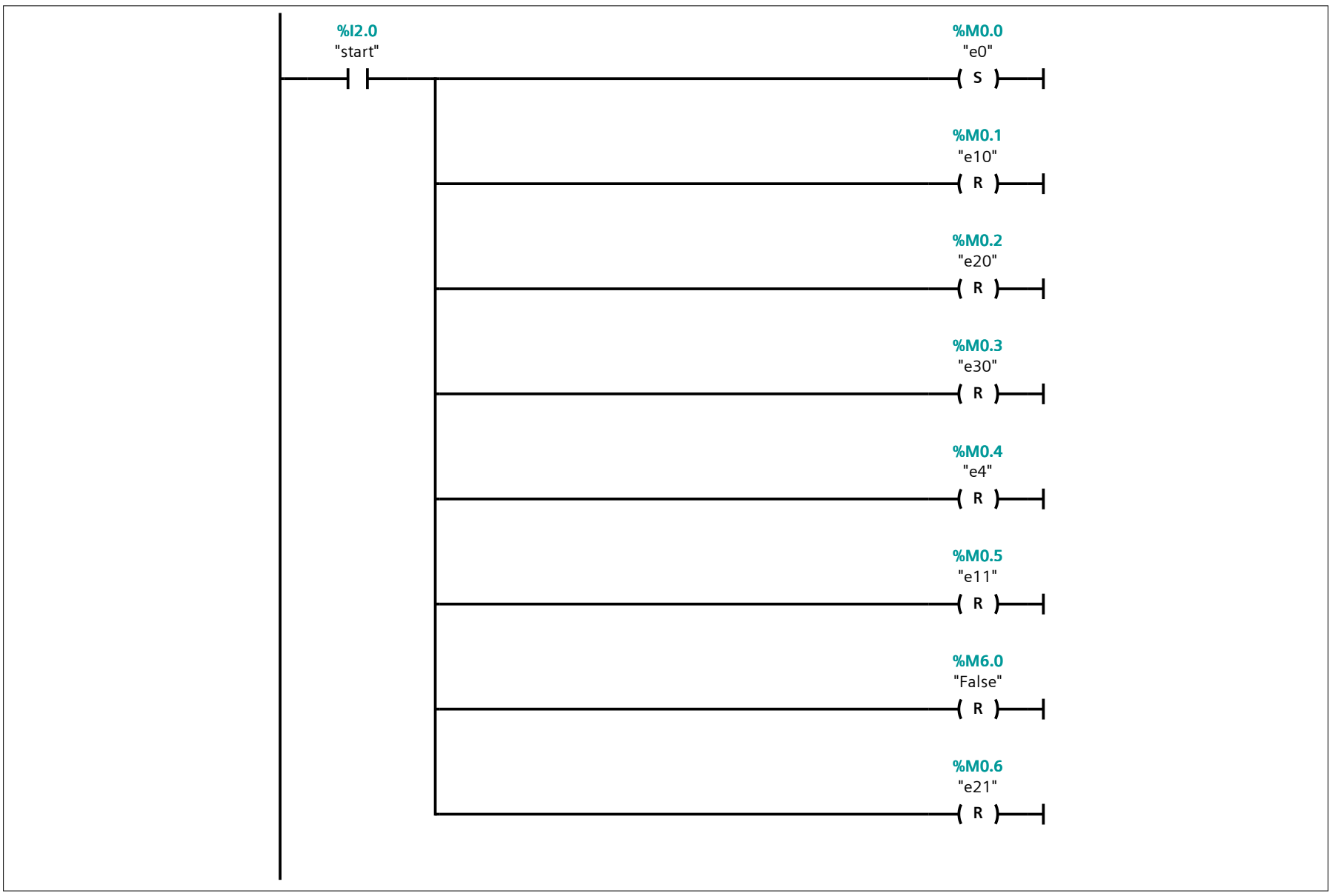
Main

Main Properties					
General					
Name	Main	**Number**	1	**Type**	OB
Language	LAD				
Information					
Title	"Main Program Sweep (Cycle)"	**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

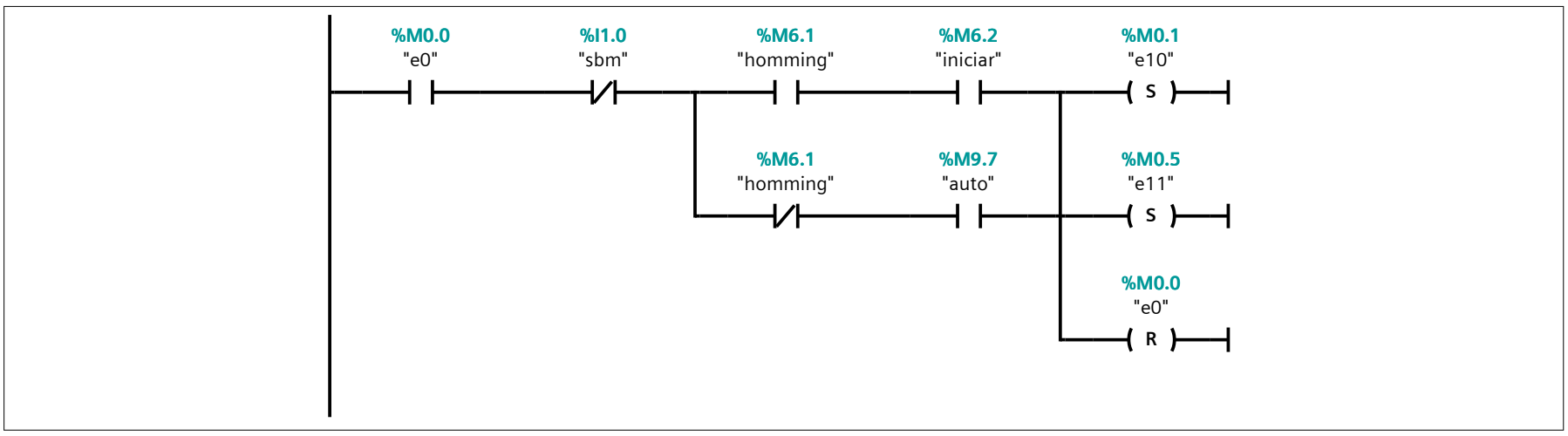
Name	Data type	Offset	Comment
▼ Temp			
OB1_EV_CLASS	Byte		Bits 0-3 = 1 (Coming event), Bits 4-7 = 1 (Event class 1)
OB1_SCAN_1	Byte		1 (Cold restart scan 1 of OB 1), 3 (Scan 2-n of OB 1)
OB1_PRIORITY	Byte		Priority of OB Execution
OB1_OB_NUMBR	Byte		1 (Organization block 1, OB1)
OB1_RESERVED_1	Byte		Reserved for system
OB1_RESERVED_2	Byte		Reserved for system
OB1_PREV_CYCLE	Int		Cycle time of previous OB1 scan (milliseconds)
OB1_MIN_CYCLE	Int		Minimum cycle time of OB1 (milliseconds)
OB1_MAX_CYCLE	Int		Maximum cycle time of OB1 (milliseconds)
OB1_DATE_TIME	Date_And_Time		Date and time OB1 started

Network 1: Start



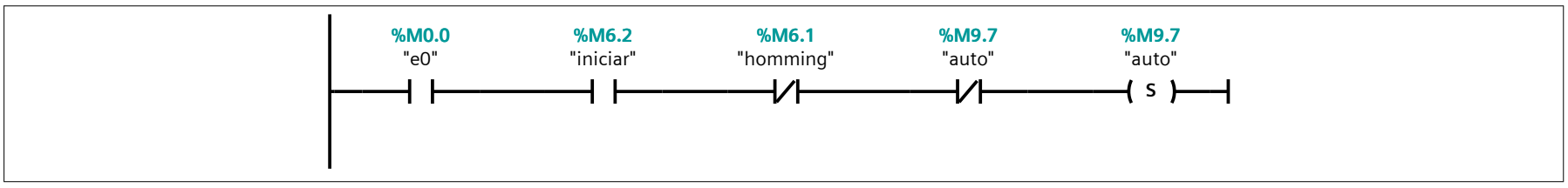
Symbol	Address	Type	Comment
"e0"	%M0.0	Bool	Estado 0
"start"	%I2.0	Bool	Inicia o sistema
"e10"	%M0.1	Bool	Estado 1.0
"e20"	%M0.2	Bool	Estado 2.0
"e30"	%M0.3	Bool	Estado 3.0
"e4"	%M0.4	Bool	Estado 4
"e11"	%M0.5	Bool	Estado 1.1
"False"	%M6.0	Bool	Variavel auxiliar = 0
"e21"	%M0.6	Bool	Estado 2.1

Network 2: Transicoes e0



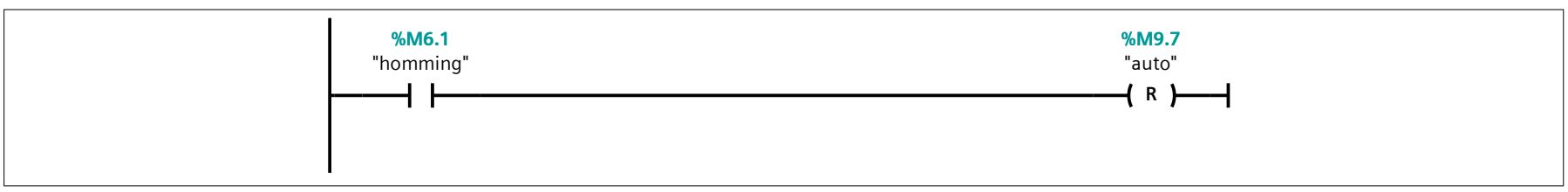
Symbol	Address	Type	Comment
"e0"	%M0.0	Bool	Estado 0
"iniciar"	%M6.2	Bool	Botao iniciar
"e10"	%M0.1	Bool	Estado 1.0
"sbm"	%I1.0	Bool	Sensor de nivel baixo maturador
"e11"	%M0.5	Bool	Estado 1.1
"homming"	%M6.1	Bool	Modo homming
"auto"	%M9.7	Bool	Modo automatico

Network 3: Inicia modo automatico



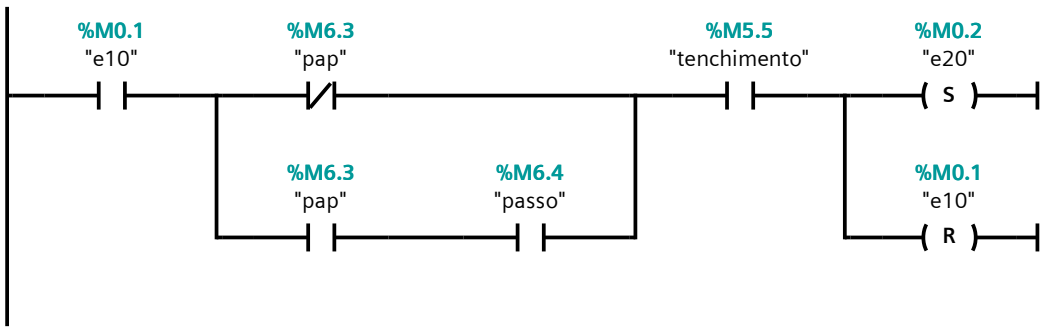
Symbol	Address	Type	Comment
"e0"	%M0.0	Bool	Estado 0
"iniciar"	%M6.2	Bool	Botao iniciar
"homming"	%M6.1	Bool	Modo homming
"auto"	%M9.7	Bool	Modo automatico

Network 4: Inicia modo homming



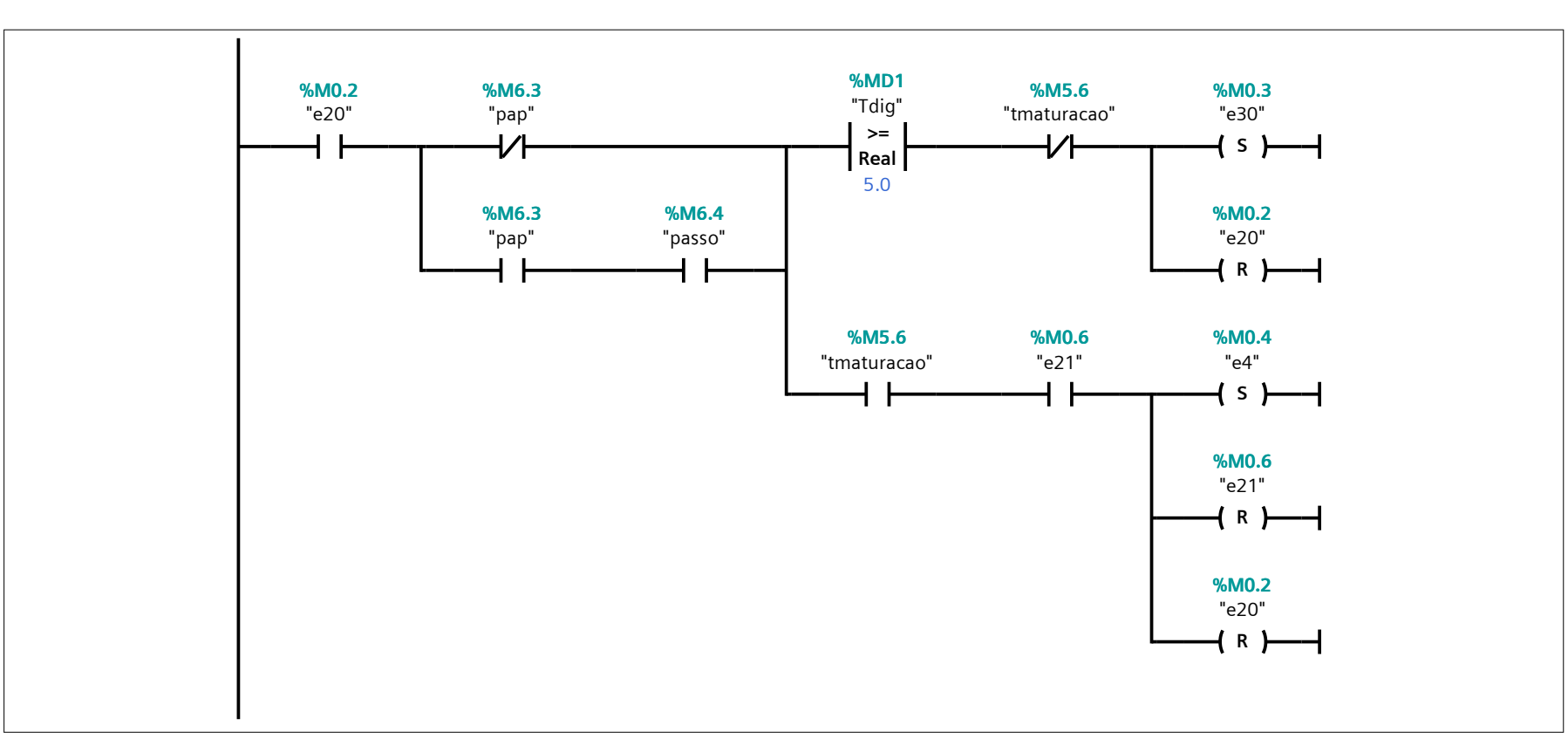
Symbol	Address	Type	Comment
"homming"	%M6.1	Bool	Modo homming
"auto"	%M9.7	Bool	Modo automatico

Network 5: Transicao e10



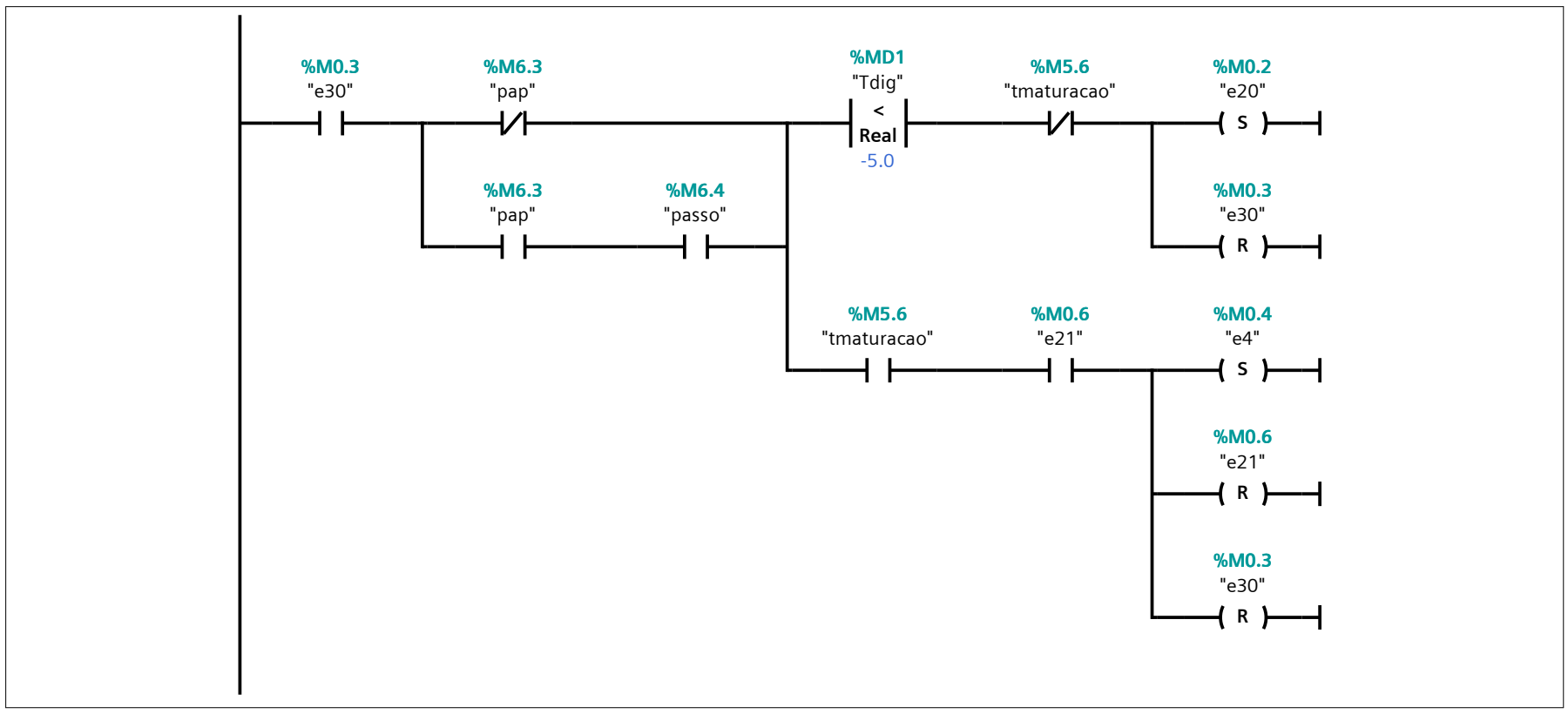
Symbol	Address	Type	Comment
"e10"	%M0.1	Bool	Estado 1.0
"e20"	%M0.2	Bool	Estado 2.0
"pap"	%M6.3	Bool	Modo passo a passo
"passo"	%M6.4	Bool	Botao de passo
"tenchimento"	%M5.5	Bool	Tempo de enchimento atingido

Network 6: Transicao e20



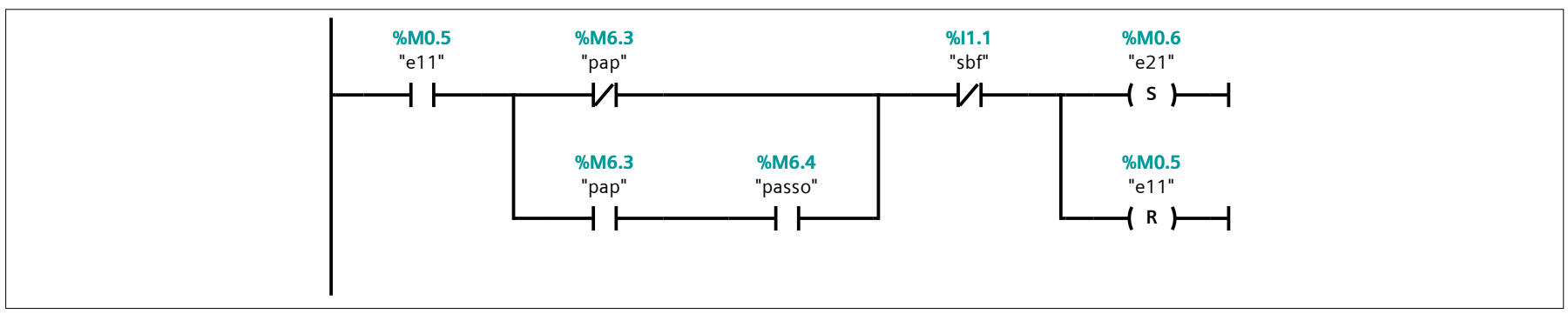
Symbol	Address	Type	Comment
"e20"	%M0.2	Bool	Estado 2.0
"e30"	%M0.3	Bool	Estado 3.0
"Tdig"	%MD1	Real	Temperatura do maturador
"e4"	%M0.4	Bool	Estado 4
"pap"	%M6.3	Bool	Modo passo a passo
"passo"	%M6.4	Bool	Botao de passo
"e21"	%M0.6	Bool	Estado 2.1
"tmaturacao"	%M5.6	Bool	Tempo de maturacao atingido
5.0	5.0	LReal	

Network 7: Transicao e30



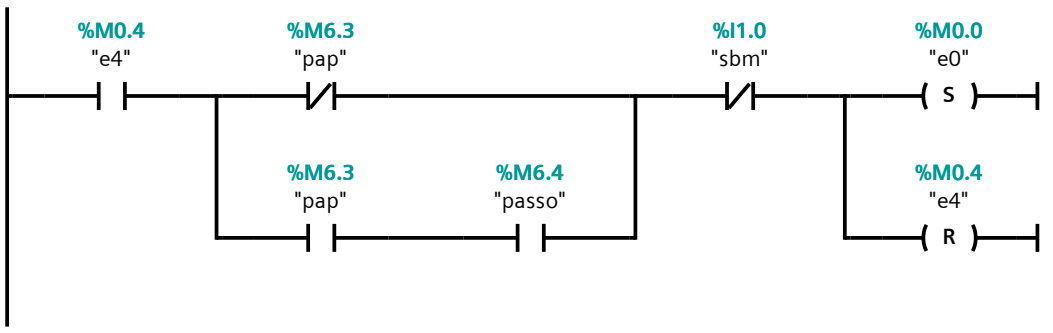
Symbol	Address	Type	Comment
"e20"	%M0.2	Bool	Estado 2.0
"e30"	%M0.3	Bool	Estado 3.0
"Tdig"	%MD1	Real	Temperatura do maturador
"e4"	%M0.4	Bool	Estado 4
"pap"	%M6.3	Bool	Modo passo a passo
"passo"	%M6.4	Bool	Botao de passo
"e21"	%M0.6	Bool	Estado 2.1
"tmaturacao"	%M5.6	Bool	Tempo de maturacao atingido
-5.0	-5.0	LReal	

Network 8: Transicao e11



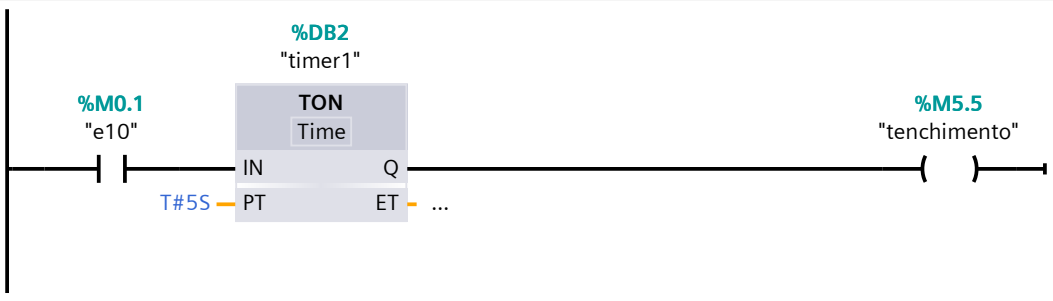
Symbol	Address	Type	Comment
"sbf"	%I1.1	Bool	Sensor de nivel baixo filtro
"e11"	%M0.5	Bool	Estado 1.1
"pap"	%M6.3	Bool	Modo passo a passo
"passo"	%M6.4	Bool	Botao de passo
"e21"	%M0.6	Bool	Estado 2.1

Network 9: Transicao e4



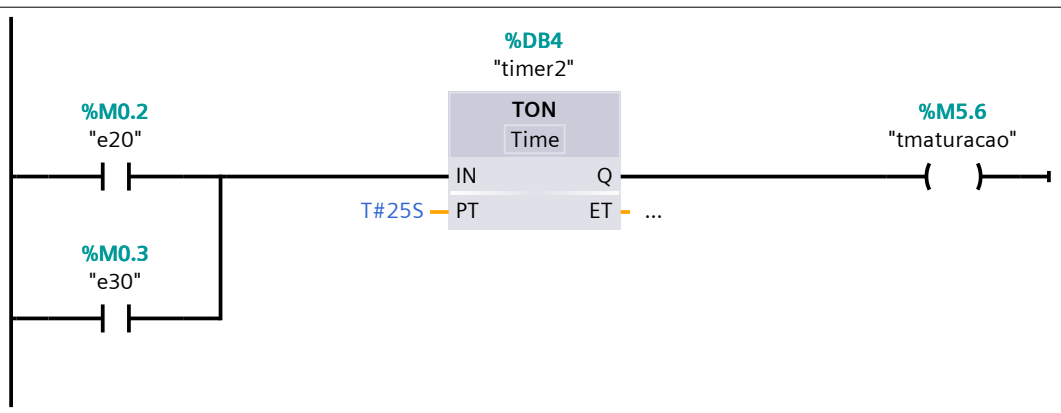
Symbol	Address	Type	Comment
"e0"	%M0.0	Bool	Estado 0
"sbm"	%I1.0	Bool	Sensor de nivel baixo maturador
"e4"	%M0.4	Bool	Estado 4
"pap"	%M6.3	Bool	Modo passo a passo
"passo"	%M6.4	Bool	Botao de passo

Network 10: Timer Enchimento



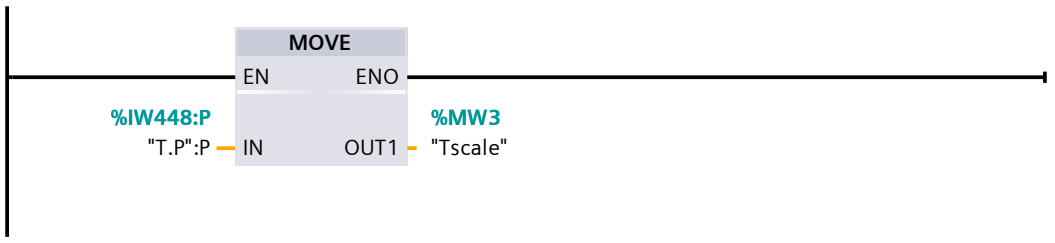
Symbol	Address	Type	Comment
"e10"	%M0.1	Bool	Estado 1.0
"timer1"	%DB2	Block_SFB	
T#5S	T#5S	Time	
"tenchimento"	%M5.5	Bool	Tempo de enchimento atingido

Network 11: Timer Maturacao



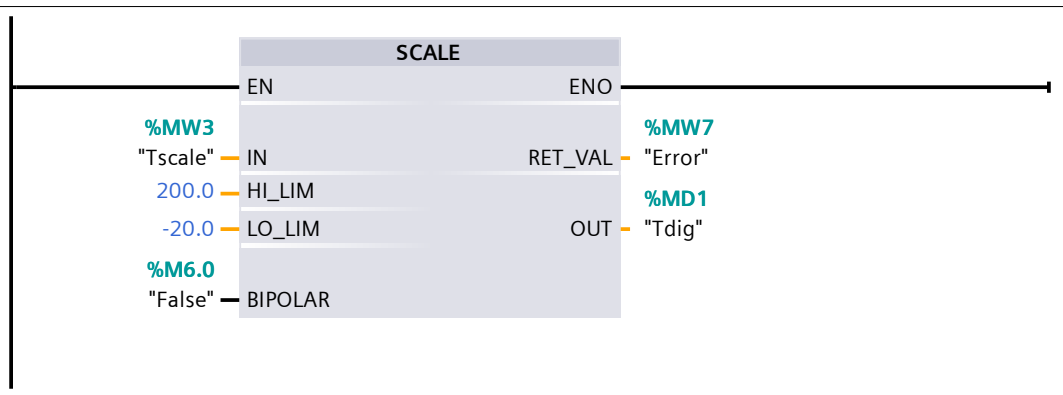
Symbol	Address	Type	Comment
"e20"	%M0.2	Bool	Estado 2.0
"e30"	%M0.3	Bool	Estado 3.0
"tmaturacao"	%M5.6	Bool	Tempo de maturacao atingido
"timer2"	%DB4	Block_SFB	
T#25S	T#25S	Time	

Network 12: Conversor Temperatura Analogica



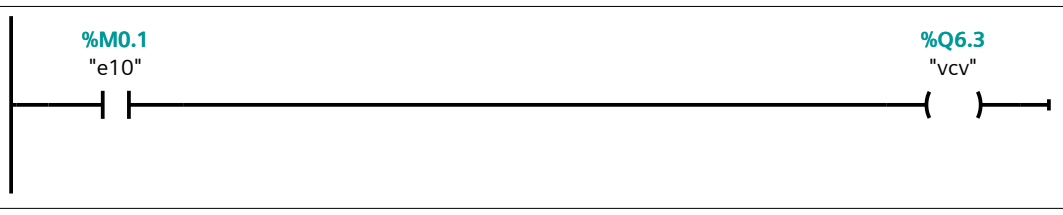
Symbol	Address	Type	Comment
"Tscale"	%MW3	Int	Sinal de temperatura digital
"T.P":P	%IW448:P	Int	Sinal de temperatura

Network 13: Scala temperatura



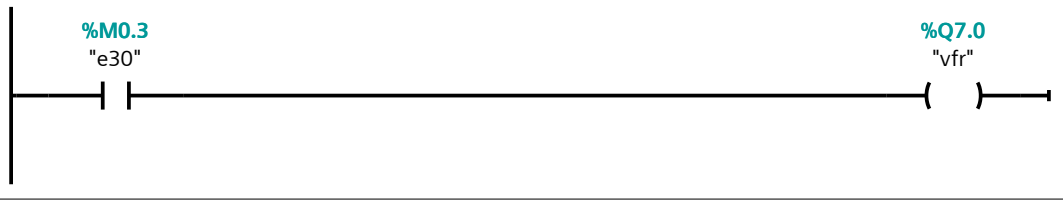
Symbol	Address	Type	Comment
"Tdig"	%MD1	Real	Temperatura do maturador
"Tscale"	%MW3	Int	Sinal de temperatura digital
200.0	200.0	LReal	
"False"	%M6.0	Bool	Variavel auxiliar = 0
"Error"	%MW7	Word	Variavel auxiliar
-20.0	-20.0	LReal	

Network 14: Saidas vcv



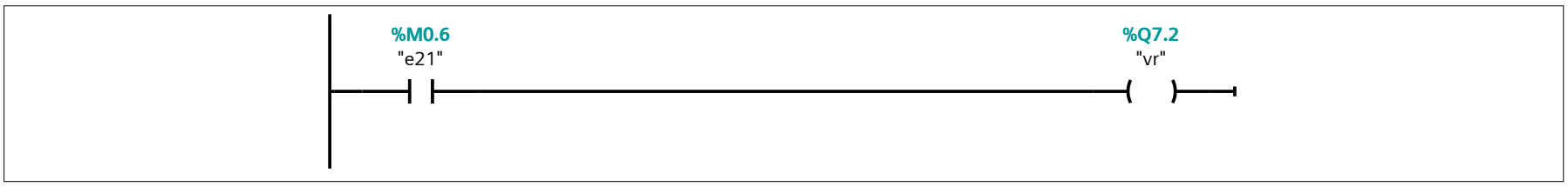
Symbol	Address	Type	Comment
"e10"	%M0.1	Bool	Estado 1.0
"vcv"	%Q6.3	Bool	Valvula cerveja verde

Network 15: Saidas vfr



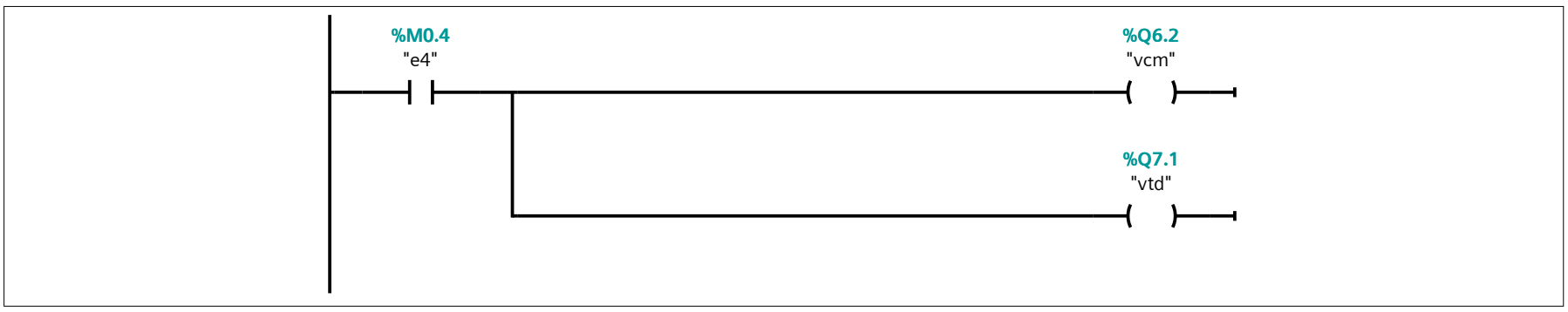
Symbol	Address	Type	Comment
"e30"	%M0.3	Bool	Estado 3.0
"vfr"	%Q7.0	Bool	Valvula fluido refrigerante

Network 16: Saidas vr



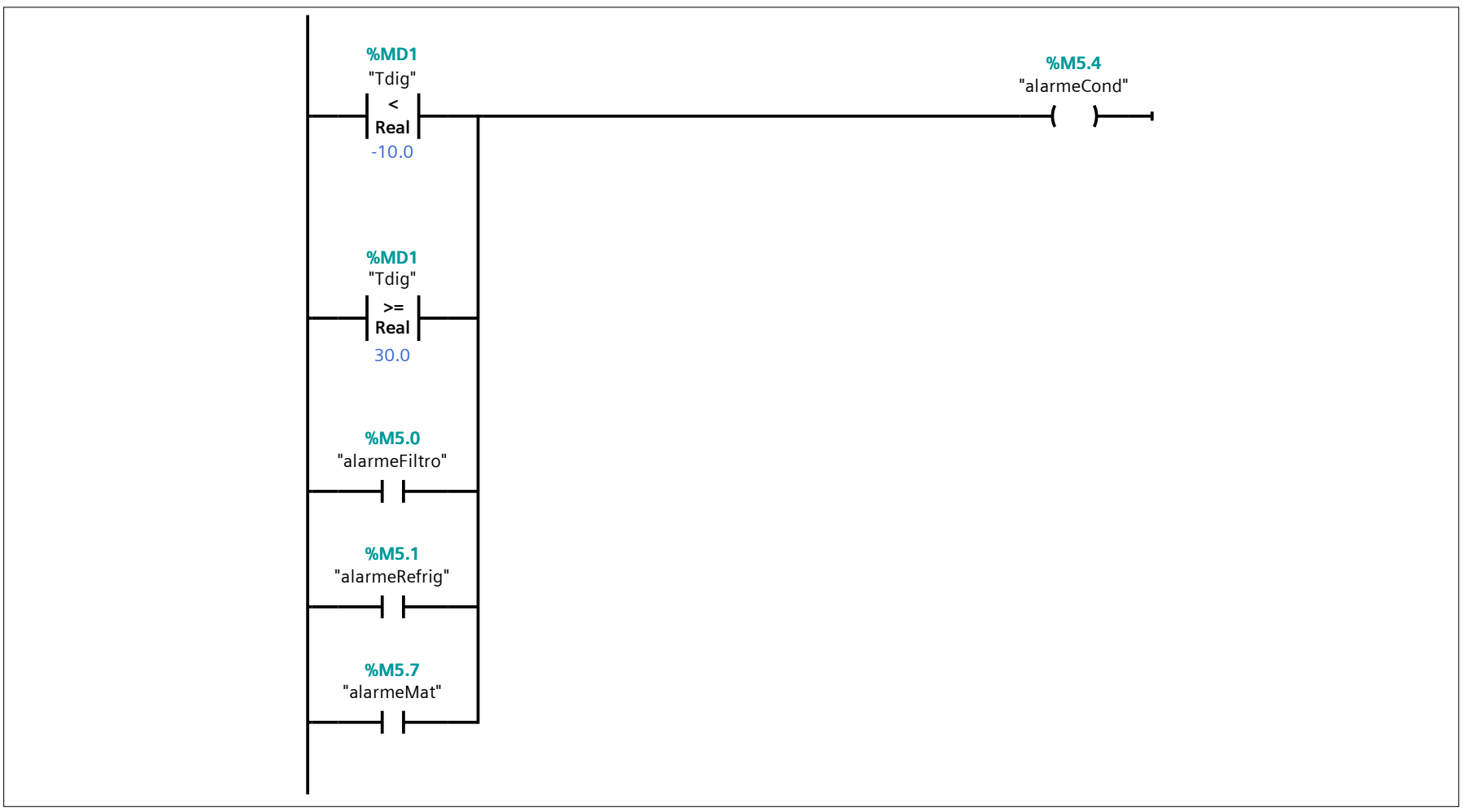
Symbol	Address	Type	Comment
"e21"	%M0.6	Bool	Estado 2.1
"vr"	%Q7.2	Bool	Valvula de residuos

Network 17: Saidas vcm e vtd



Symbol	Address	Type	Comment
"e4"	%M0.4	Bool	Estado 4
"vcm"	%Q6.2	Bool	Valvula cerveja maturada
"vtd"	%Q7.1	Bool	Valvula de terra diatomacea

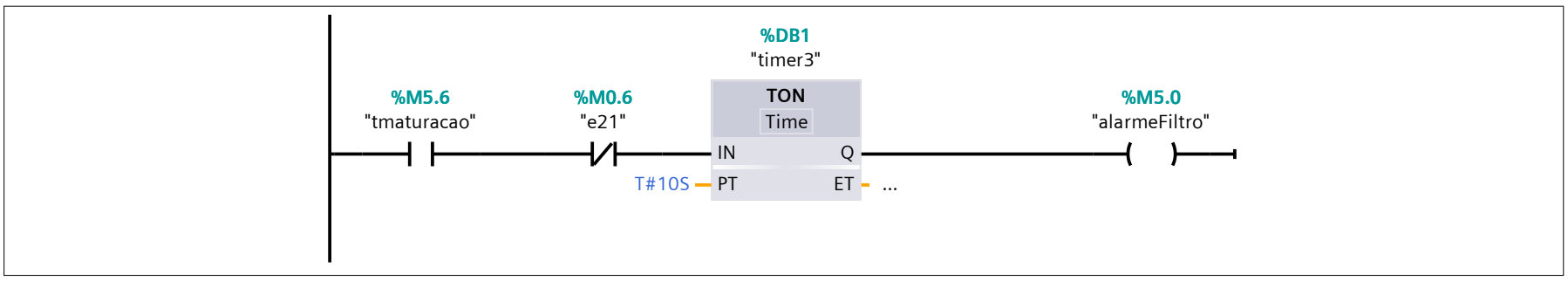
Network 18: Alarme



Symbol	Address	Type	Comment
"Tdig"	%MD1	Real	Temperatura do maturador

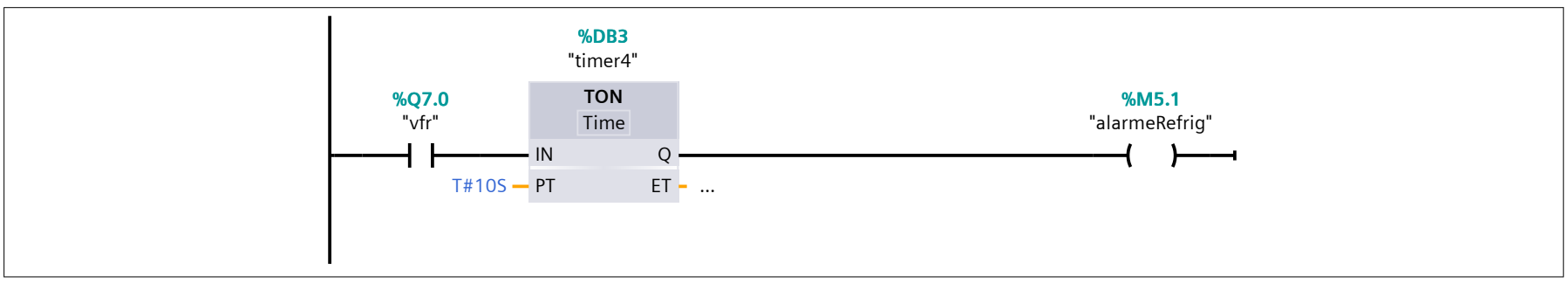
Symbol	Address	Type	Comment
"alarmeFiltro"	%M5.0	Bool	Alarme por tempo do filtro
"alarmeRefrig"	%M5.1	Bool	Alarme por tempo do Refrigerante
"alarmeCond"	%M5.4	Bool	Condicao de alarme
-10.0	-10.0	LReal	
30.0	30.0	LReal	
"alarmeMat"	%M5.7	Bool	Alarme por tempo do maturador

Network 19: Timer alarme filtro



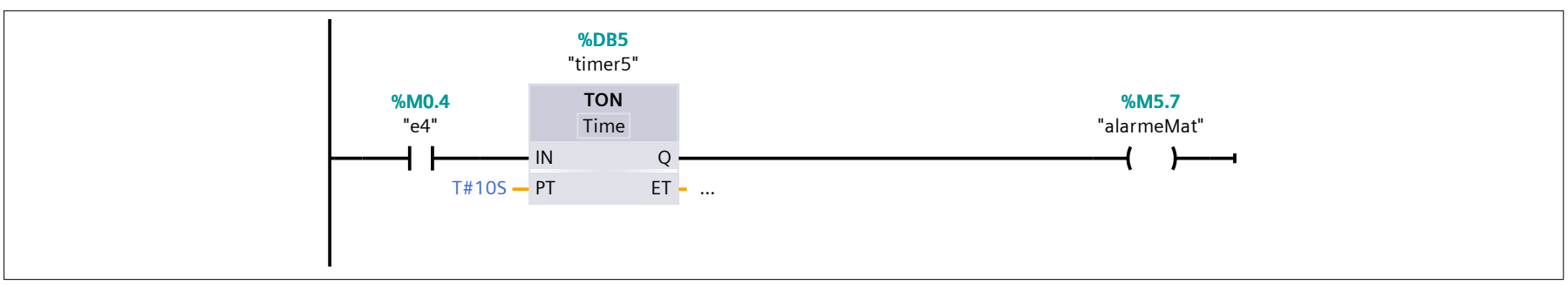
Symbol	Address	Type	Comment
"timer3"	%DB1	Block_SFB	
"alarmeFiltro"	%M5.0	Bool	Alarme por tempo do filtro
T#10S	T#10S	Time	
"e21"	%M0.6	Bool	Estado 2.1
"tmaturacao"	%M5.6	Bool	Tempo de maturacao atingido

Network 20: Timer alarme refrigerador



Symbol	Address	Type	Comment
"vfr"	%Q7.0	Bool	Valvula fluido refrigerante
"timer4"	%DB3	Block_SFB	
"alarmeRefrig"	%M5.1	Bool	Alarme por tempo do Refrigerante
T#10S	T#10S	Time	

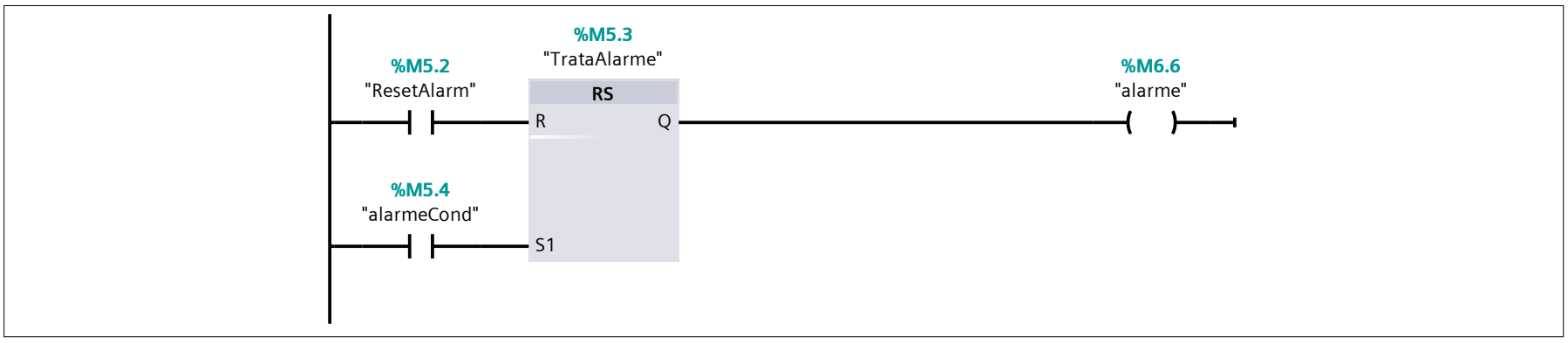
Network 21: Timer alarme Maturacao



Symbol	Address	Type	Comment
"e4"	%M0.4	Bool	Estado 4
T#10S	T#10S	Time	
"timer5"	%DB5	Block_SFB	

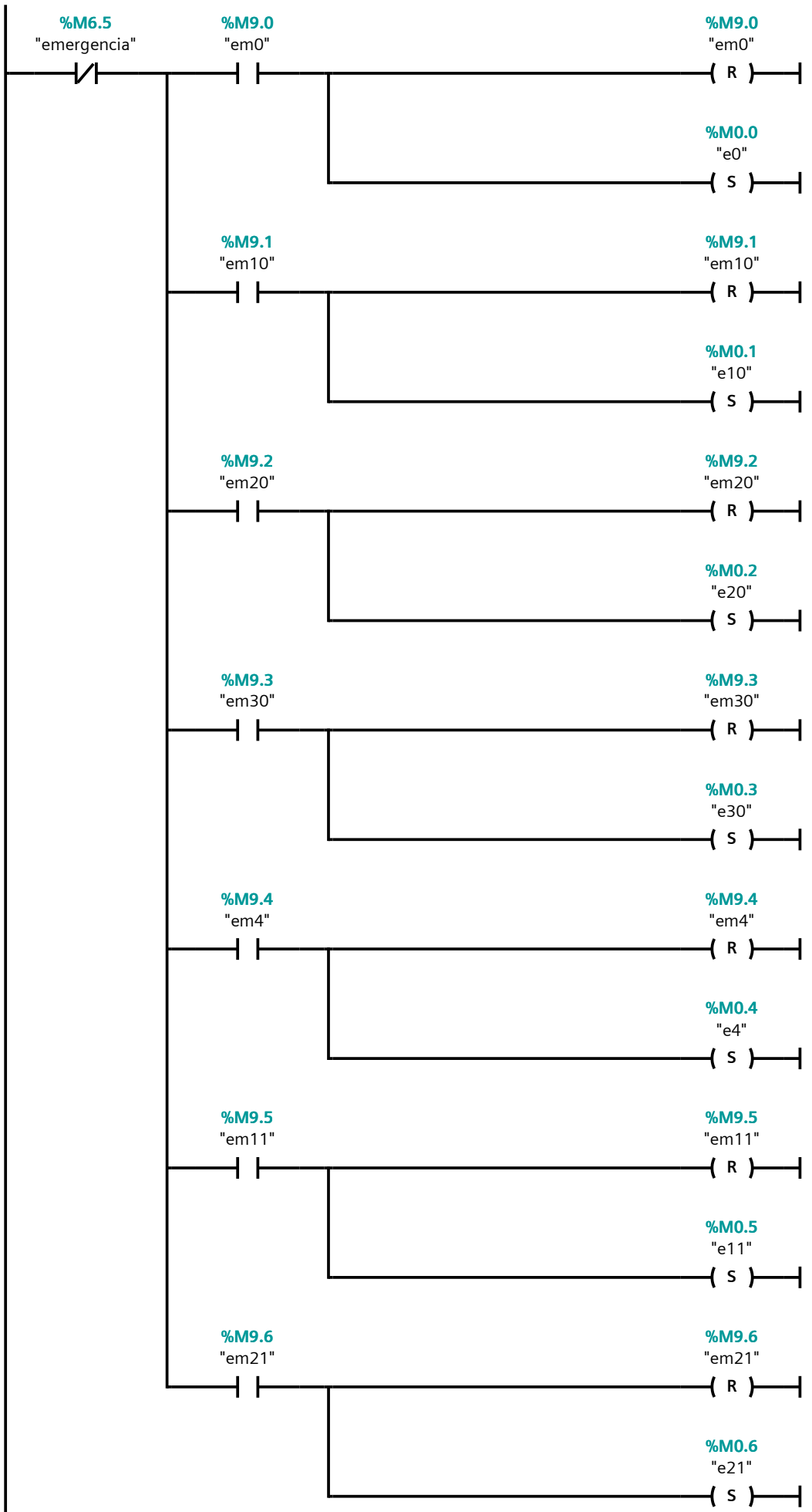
Symbol	Address	Type	Comment
"alarmeMat"	%M5.7	Bool	Alarme por tempo do maturador

Network 22: Flipflop Alarme



Symbol	Address	Type	Comment
"alarme"	%M6.6	Bool	Estado de Alarme
"ResetAlarm"	%M5.2	Bool	Reseta alarme
"TrataAlarme"	%M5.3	Bool	
"alarmeCond"	%M5.4	Bool	Condicao de alarme

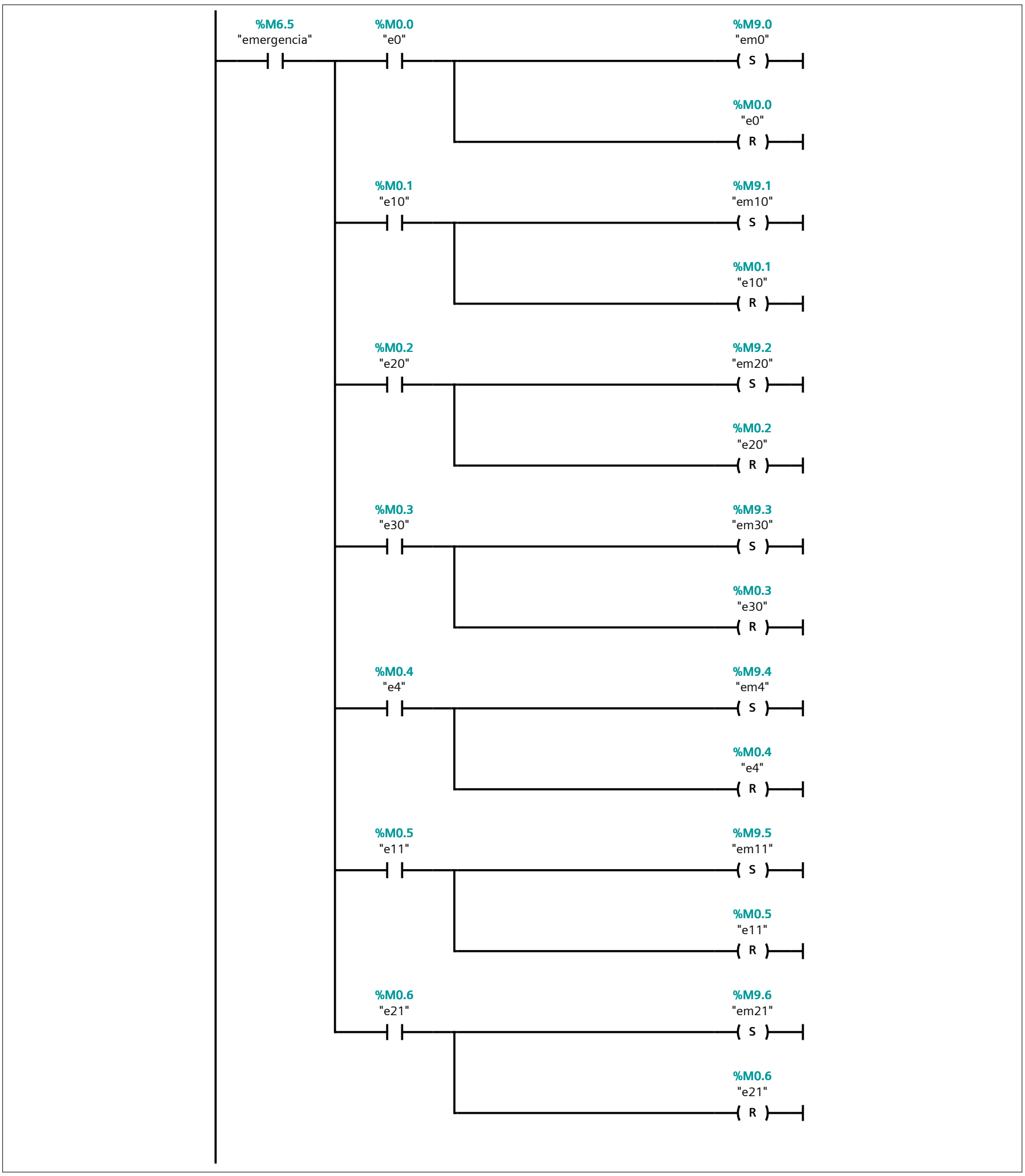
Network 23: Reseta Emergencia



Symbol	Address	Type	Comment
"e0"	%M0.0	Bool	Estado 0
"e10"	%M0.1	Bool	Estado 1.0
"e20"	%M0.2	Bool	Estado 2.0
"e30"	%M0.3	Bool	Estado 3.0
"e4"	%M0.4	Bool	Estado 4
"e11"	%M0.5	Bool	Estado 1.1
"emergencia"	%M6.5	Bool	Modo de emergencia
"em0"	%M9.0	Bool	Estado de emergencia 0
"em10"	%M9.1	Bool	Estado de emergencia 1.0
"em20"	%M9.2	Bool	Estado de emergencia 2.0

Symbol	Address	Type	Comment
"em30"	%M9.3	Bool	Estado de emergencia 3.0
"em4"	%M9.4	Bool	Estado de emergencia 4
"em11"	%M9.5	Bool	Estado de emergencia 1.1
"e21"	%M0.6	Bool	Estado 2.1
"em21"	%M9.6	Bool	Estado de emergencia 2.1

Network 24: Inicia Emergencia



Symbol	Address	Type	Comment
"e0"	%M0.0	Bool	Estado 0
"e10"	%M0.1	Bool	Estado 1.0
"e20"	%M0.2	Bool	Estado 2.0
"e30"	%M0.3	Bool	Estado 3.0
"e4"	%M0.4	Bool	Estado 4
"e11"	%M0.5	Bool	Estado 1.1
"emergencia"	%M6.5	Bool	Modo de emergencia
"em0"	%M9.0	Bool	Estado de emergencia 0
"em10"	%M9.1	Bool	Estado de emergencia 1.0
"em20"	%M9.2	Bool	Estado de emergencia 2.0
"em30"	%M9.3	Bool	Estado de emergencia 3.0
"em4"	%M9.4	Bool	Estado de emergencia 4
"em11"	%M9.5	Bool	Estado de emergencia 1.1
"e21"	%M0.6	Bool	Estado 2.1
"em21"	%M9.6	Bool	Estado de emergencia 2.1