Program blocks

motortest [FB12]

motortest Properties					
General					
Name	motortest	**Number**	12	**Type**	FB
Language	SCL	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
links	Bool	false	Non-retain	True	True	True	False		
rechts	Bool	false	Non-retain	True	True	True	False		
Output									
k1	Bool	false	Non-retain	True	True	True	False		
k2	Bool	false	Non-retain	True	True	True	False		
InOut									
Static									
Temp									
Constant									

```
0001 IF #links = TRUE THEN
0002   #k1 := TRUE;
0003 ELSE
0004   #k1 := FALSE;
0005 END_IF;
0006 IF #rechts = TRUE THEN
0007   #k2 := TRUE;
0008 ELSE
0009   #k2 := FALSE;
0010 END_IF;
0011
```

Symbol	Address	Type	Comment
#k1		Bool	
#k2		Bool	
#links		Bool	
#rechts		Bool	

Program blocks

AnalogeSensor_Materiaal [FB13]

AnalogeSensor_Materiaal Properties					
General					
Name	AnalogeSensor_Materiaal	**Number**	13	**Type**	FB
Language	SCL	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
Sensor_materiaal	Int	0	Non-retain	True	True	True	False		
▼ Output									
metaal	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
maxwaarde_metaal	Int	15000	Non-retain	True	True	True	False		
Temp									
Constant									

```
0001 IF #Sensor_materiaal <= #maxwaarde_metaal THEN
0002   #metaal := TRUE;
0003 ELSE
0004   #metaal := FALSE;
0005 END_IF;
0006
```

Symbol	Address	Type	Comment
#maxwaarde_metaal		Int	
#metaal		Bool	
#Sensor_materiaal		Int	

Program blocks

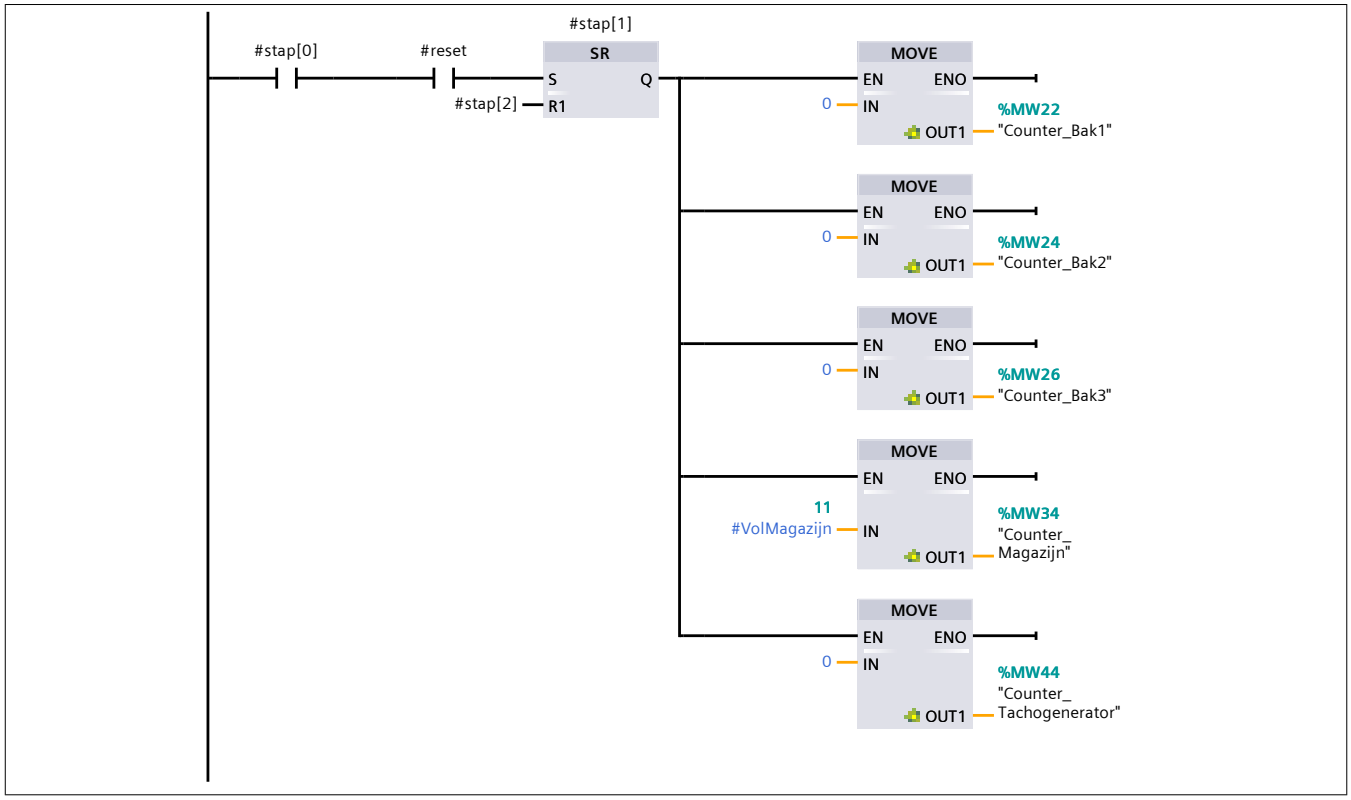
Reset_1 [FB2]

Reset_1 Properties					
General					
Name	Reset_1	**Number**	2	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

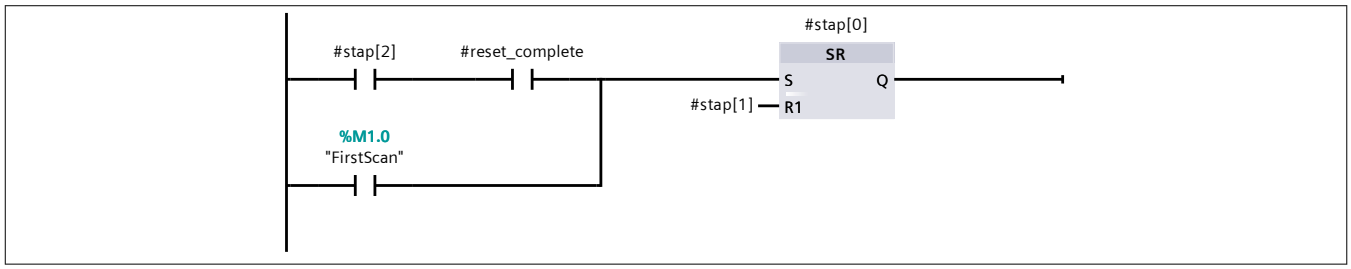
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
reset	Bool	false	Non-retain	False	False	False	False		
Cil_V_in	Bool	false	Non-retain	False	False	False	False		
Cil_H_in	Bool	false	Non-retain	False	False	False	False		
Cil_M_in	Bool	false	Non-retain	False	False	False	False		
Output									
Ven_H_in	Bool	false	Non-retain	False	False	False	False		
Ven_V_in	Bool	false	Non-retain	False	False	False	False		
Ven_M_in	Bool	false	Non-retain	False	False	False	False		
Ven_H_uit	Bool	false	Non-retain	False	False	False	False		
Ven_V_uit	Bool	false	Non-retain	False	False	False	False		
Ven_M_uit	Bool	false	Non-retain	False	False	False	False		
reset_complete	Bool	false	Non-retain	False	False	False	False		
InOut									
Static									
stap	Array[0..2] of Bool		Non-retain	True	True	True	False		
stap[0]	Bool	false	Non-retain	True	True	True	False		
stap[1]	Bool	false	Non-retain	True	True	True	False		
stap[2]	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

Name	Data type	Default value	Retain	Acces-sible from HMI/OPC UA	Wri ta-ble fro m HM I/O PC UA	Visible in HMI engi-neer-ing	Set-point	Super-vision	Comment
VolMagazijn	Int	11							

Network 1:



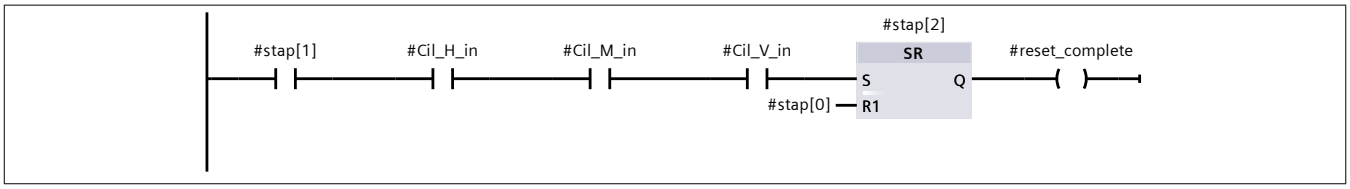
Network 2:



Network 3:


#stap[1]
#Ven_H_in
#Ven_M_in
#Ven_V_in

Network 4:


#stap[1]
#Cil_H_in
#Cil_M_in
#Cil_V_in
#stap[2]
SR
S
Q
#stap[0]
R1
#reset_complete

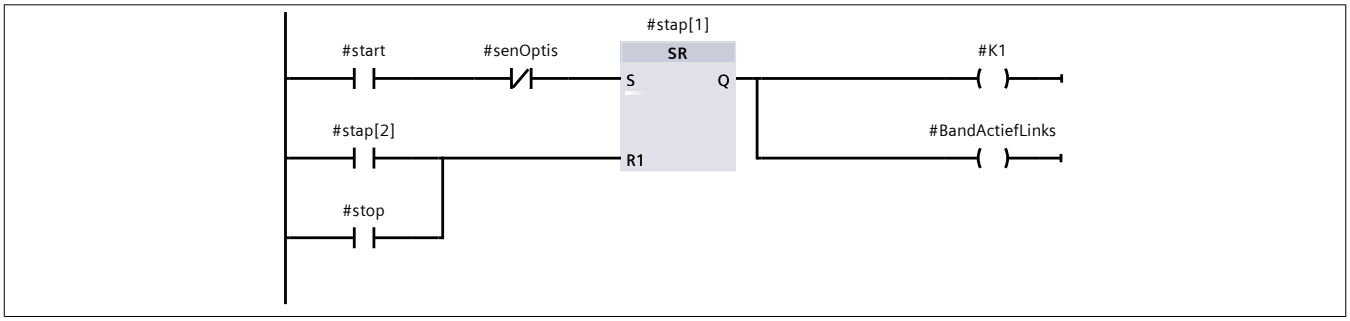
Program blocks

BN_Bak1 [FB5]

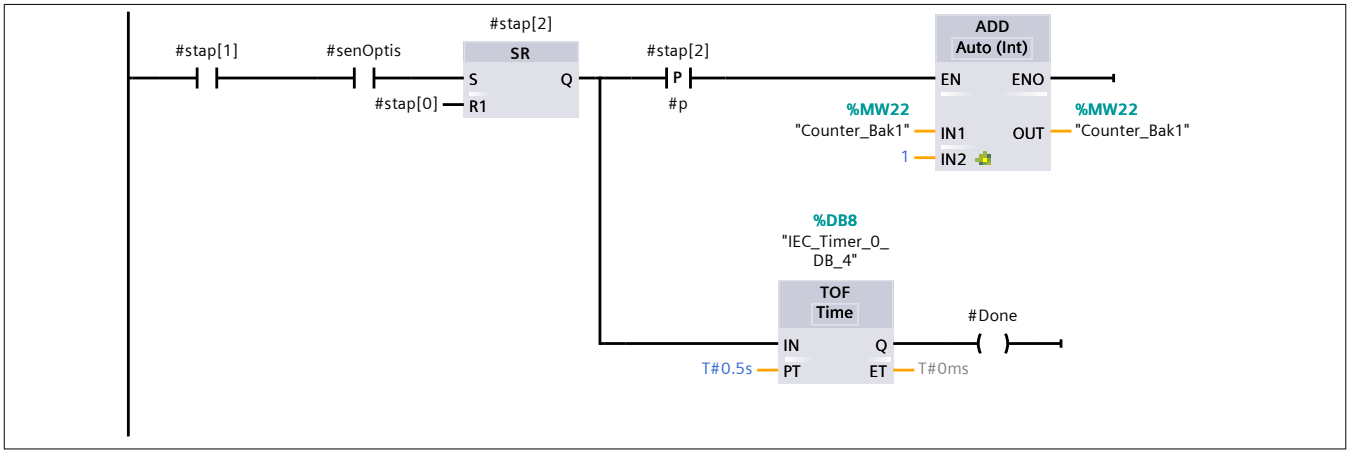
BN_Bak1 Properties					
General					
Name	BN_Bak1	**Number**	5	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
start	Bool	false	Non-retain	True	True	True	False		
stop	Bool	false	Non-retain	True	True	True	False		
senOptis	Bool	false	Non-retain	True	True	True	False		
Output									
InOut									
▼ Static									
▼ stap	Array[0..2] of Bool		Non-retain	True	True	True	False		
stap[0]	Bool	false	Non-retain	True	True	True	False		
stap[1]	Bool	false	Non-retain	True	True	True	False		
stap[2]	Bool	false	Non-retain	True	True	True	False		
K1	Bool	false	Non-retain	True	True	True	False		
K2	Bool	false	Non-retain	True	True	True	False		
BandActiefLinks	Bool	false	Non-retain	True	True	True	False		
p	Bool	false	Non-retain	True	True	True	False		
Done	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

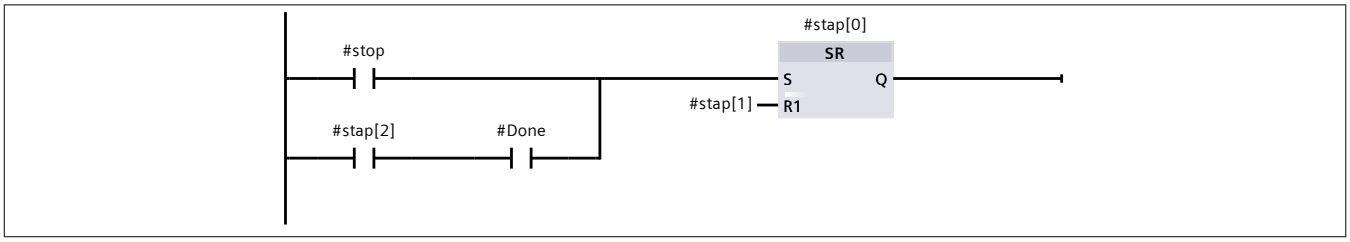
Network 1: Stap 1, Draai band Links



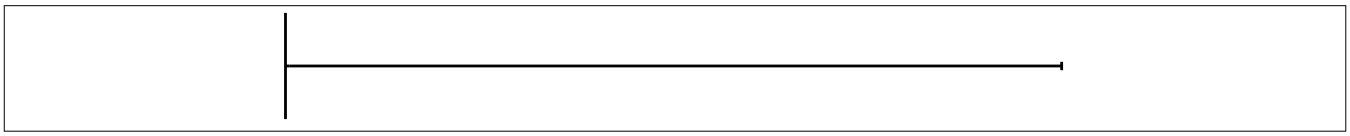
Network 2: stap 2, counter bak1 + 1, stuur done pulls



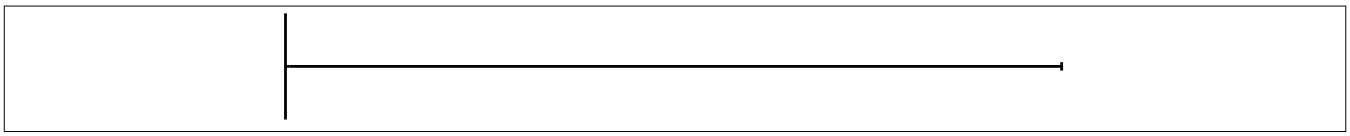
Network 3:



Network 4:



Network 5:



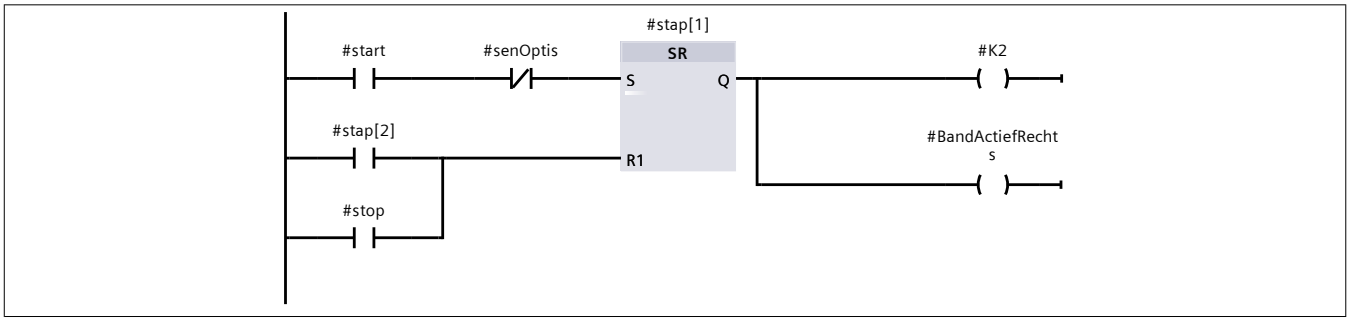
Program blocks

BN_Bak3 [FB7]

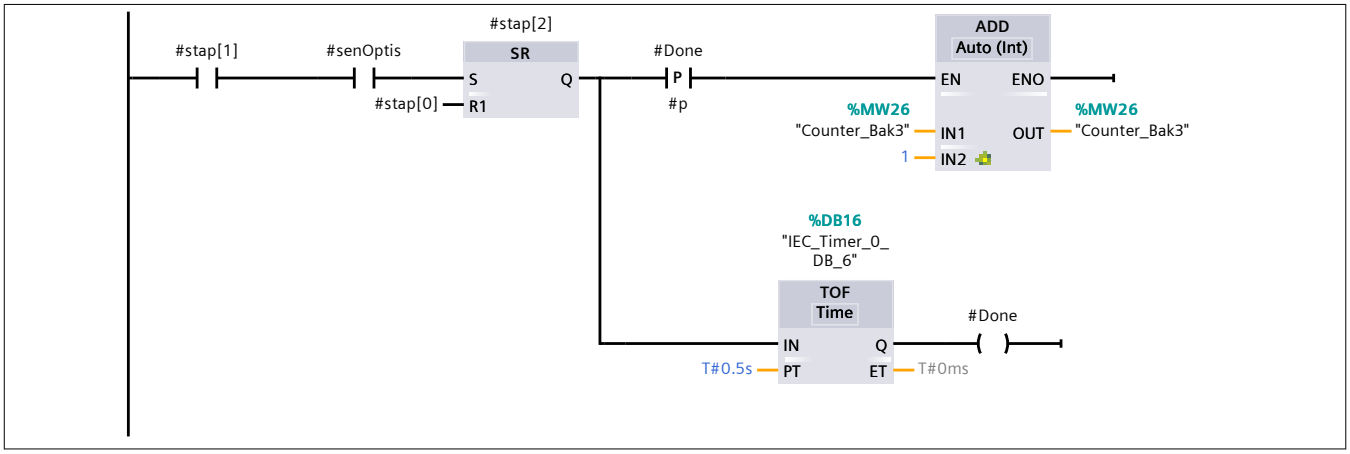
BN_Bak3 Properties					
General					
Name	BN_Bak3	**Number**	7	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
start	Bool	false	Non-retain	True	True	True	False		
stop	Bool	false	Non-retain	True	True	True	False		
senOptis	Bool	false	Non-retain	True	True	True	False		
Output									
InOut									
▼ Static									
▼ stap	Array[0..2] of Bool		Non-retain	True	True	True	False		
stap[0]	Bool	false	Non-retain	True	True	True	False		
stap[1]	Bool	false	Non-retain	True	True	True	False		
stap[2]	Bool	false	Non-retain	True	True	True	False		
K1	Bool	false	Non-retain	True	True	True	False		
K2	Bool	false	Non-retain	True	True	True	False		
BandActiefRechts	Bool	false	Non-retain	True	True	True	False		
Done	Bool	false	Non-retain	True	True	True	False		
p	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

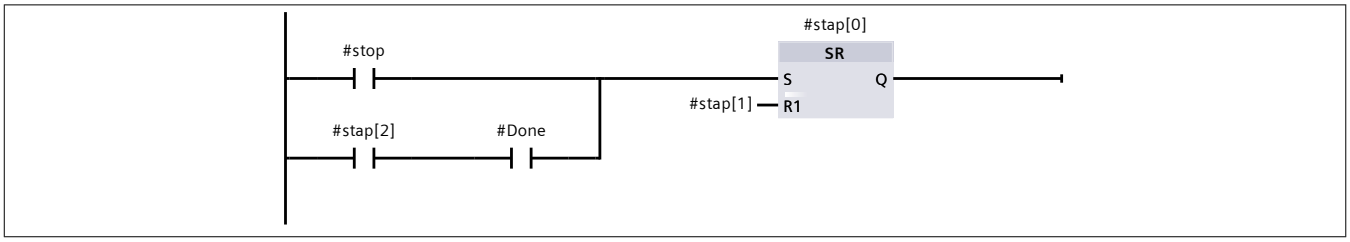
Network 1: Stap 1, Draai band Rechts



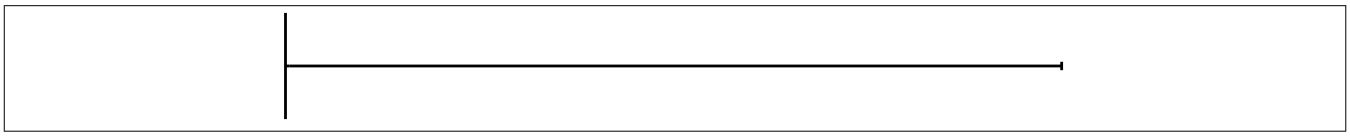
Network 2: stap 2, counter bak1 + 1, stuur done pulls



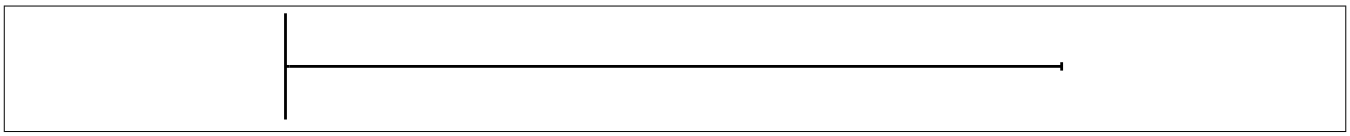
Network 3:



Network 4:



Network 5:



Program blocks

P&P_1 [FB3]

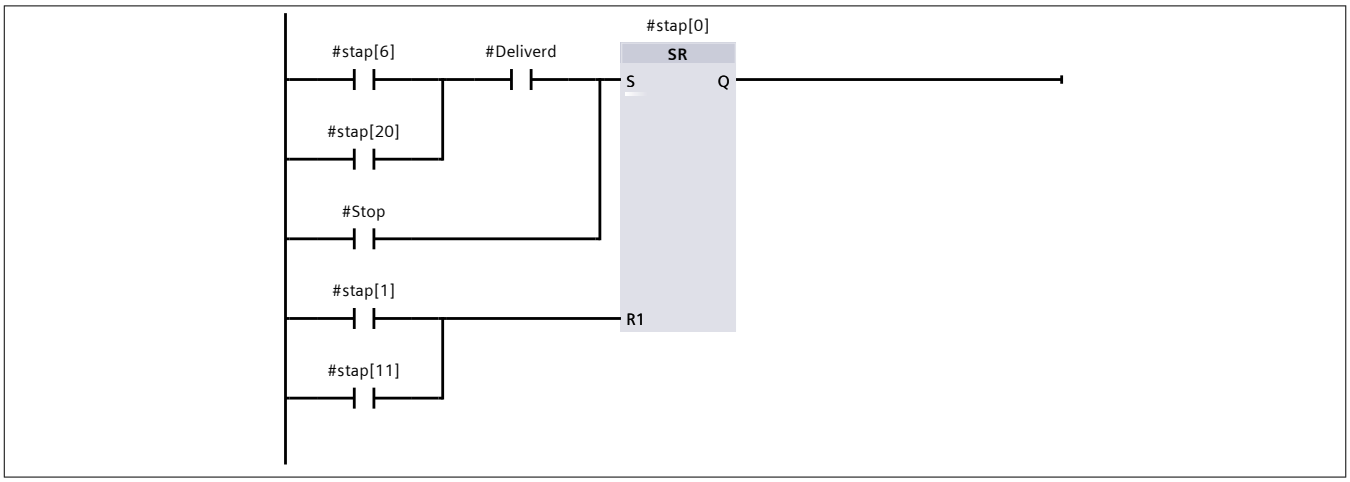
P&P_1 Properties					
General					
Name	P&P_1	**Number**	3	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Start_Knop_manual	Bool	false	Non-retain	False	False	False	False		
Start_P&P	Bool	false	Non-retain	False	False	False	False		
Pauze	Bool	false	Non-retain	False	False	False	False		
Stop	Bool	false	Non-retain	False	False	False	False		
Sen_Cil_Magazijn_in	Bool	false	Non-retain	False	False	False	False		
Sen_Cil_Magazijn_uit	Bool	false	Non-retain	False	False	False	False		
Sen_Cil_Verticaal_in	Bool	false	Non-retain	False	False	False	False		
Sen_Cil_Verticaal_uit	Bool	false	Non-retain	False	False	False	False		
Sen_Cil_Horizontaal_in	Bool	false	Non-retain	False	False	False	False		
Sen_Cil_Horizontaal_uit	Bool	false	Non-retain	False	False	False	False		
Manual	Bool	false	Non-retain	False	False	False	False		
Sensor_zuiger	Bool	false	Non-retain	True	True	True	False		
Output									
Ven_Magazijn_in	Bool	false	Non-retain	False	False	False	False		
Ven_Magazijn_uit	Bool	false	Non-retain	False	False	False	False		
Ven_Verticaal_in	Bool	false	Non-retain	False	False	False	False		
Ven_Verticaal_uit	Bool	false	Non-retain	False	False	False	False		
Ven_Horizontaal_in	Bool	false	Non-retain	False	False	False	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Ven_Horizontaal_uit	Bool	false	Non-retain	False	False	False	False		
Ven_Zuiger	Bool	false	Non-retain	False	False	False	False		
Deliverd	Bool	false	Non-retain	False	False	False	False		
InOut									
Static									
stap	Array[0..20] of Bool		Non-retain	False	False	False	False		
stap[0]	Bool	false	Non-retain	False	False	False	False		
stap[1]	Bool	false	Non-retain	False	False	False	False		
stap[2]	Bool	false	Non-retain	False	False	False	False		
stap[3]	Bool	false	Non-retain	False	False	False	False		
stap[4]	Bool	false	Non-retain	False	False	False	False		
stap[5]	Bool	false	Non-retain	False	False	False	False		
stap[6]	Bool	false	Non-retain	False	False	False	False		
stap[7]	Bool	false	Non-retain	False	False	False	False		
stap[8]	Bool	false	Non-retain	False	False	False	False		
stap[9]	Bool	false	Non-retain	False	False	False	False		
stap[10]	Bool	false	Non-retain	False	False	False	False		
stap[11]	Bool	false	Non-retain	False	False	False	False		
stap[12]	Bool	false	Non-retain	False	False	False	False		
stap[13]	Bool	false	Non-retain	False	False	False	False		
stap[14]	Bool	false	Non-retain	False	False	False	False		
stap[15]	Bool	false	Non-retain	False	False	False	False		
stap[16]	Bool	false	Non-retain	False	False	False	False		
stap[17]	Bool	false	Non-retain	False	False	False	False		
stap[18]	Bool	false	Non-retain	False	False	False	False		
stap[19]	Bool	false	Non-retain	False	False	False	False		

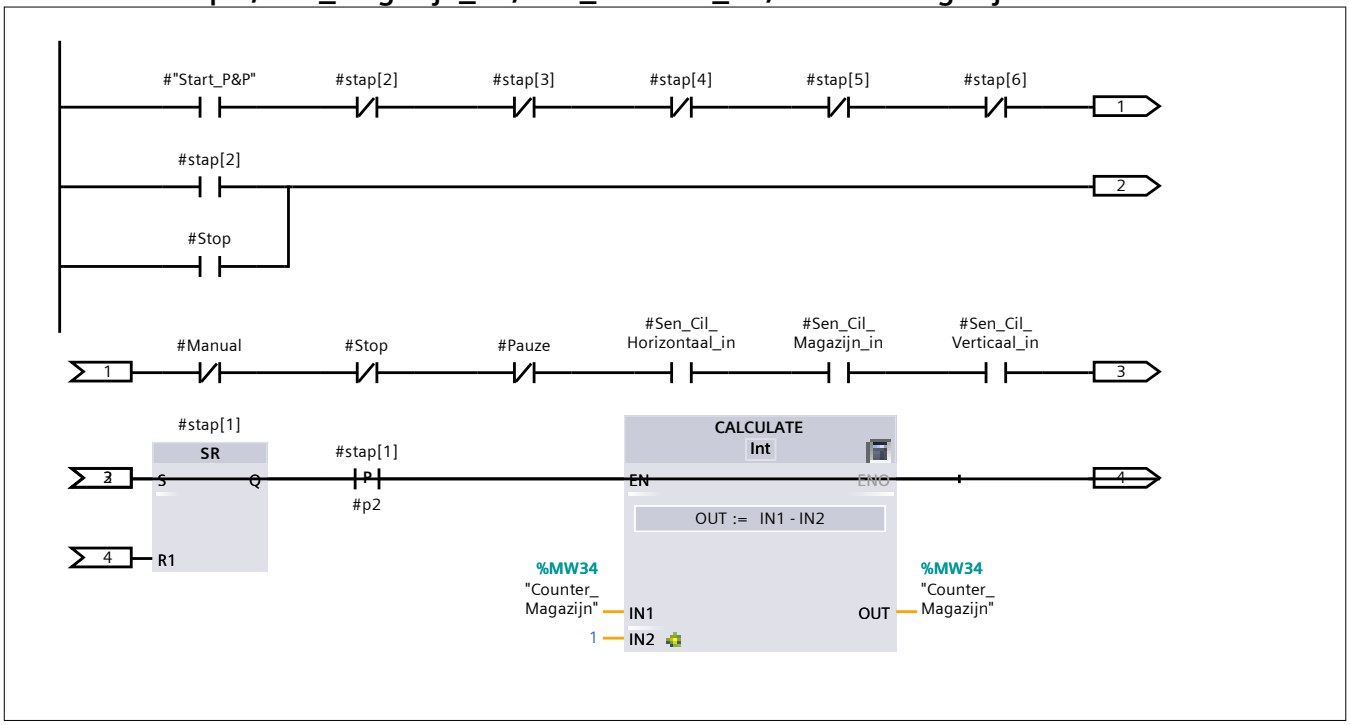
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
stap[20]	Bool	false	Non-retain	False	False	False	False		
p1	Bool	false	Non-retain	False	False	False	False		
p2	Bool	false	Non-retain	False	False	False	False		
P&P_Actief	Bool	false	Non-retain	True	True	True	False		
Delay_zuiger	Time	T#2S	Non-retain	True	True	True	False		
Delay_VenVerticaal_uit	Time	T#500ms	Non-retain	True	True	True	False		
Delay_VenVerticaal_in	Time	T#1s	Non-retain	True	True	True	False		
Probleem_Zuiger	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

Network 1: Stap 0, Rust, Stop

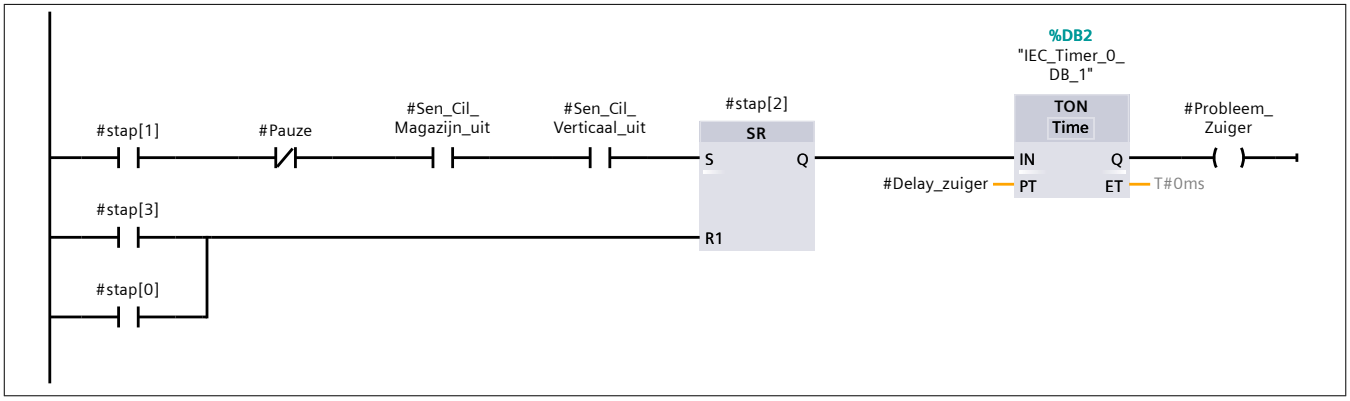


Network 2: Stap 1, Ven_magazijn_uit, Ven_verticaal_uit, counter magazijn -1

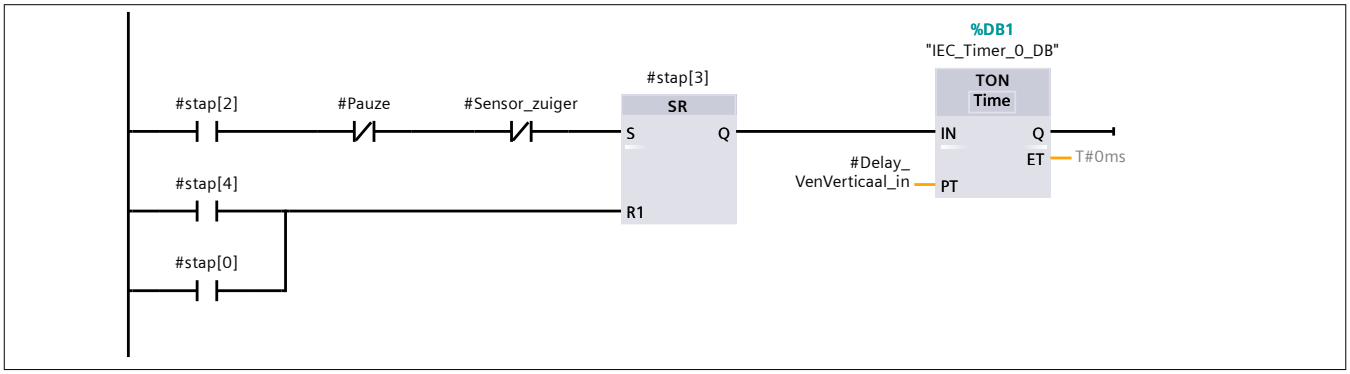
Network 2: Stap 1, Ven_magazijn_uit, Ven_verticaal_uit, counter magazijn -1



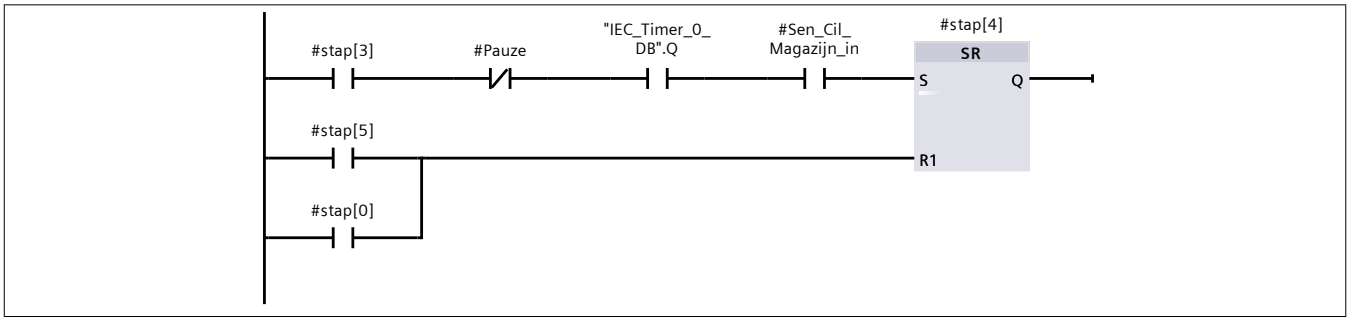
Network 3: Stap 2, Zuiger



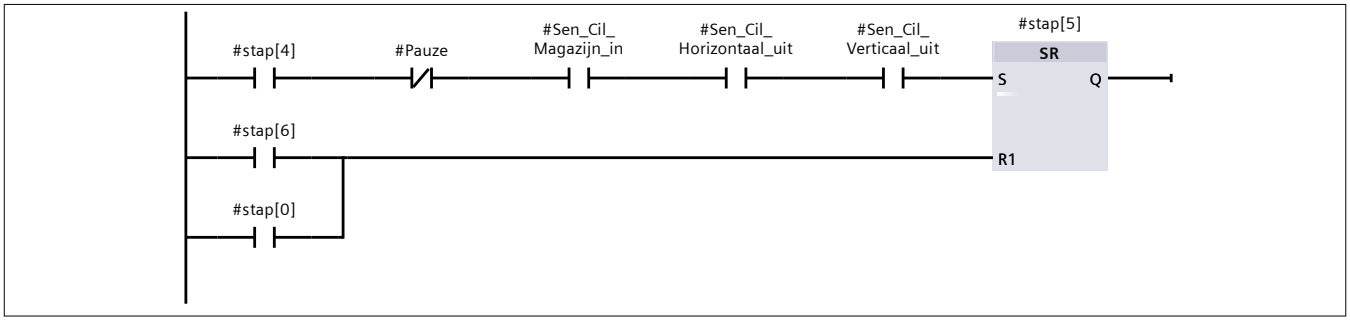
Network 4: Stap 3, Ven_magazijn_in, Ven_Horizontaal_in, zuiger, wacht 2s



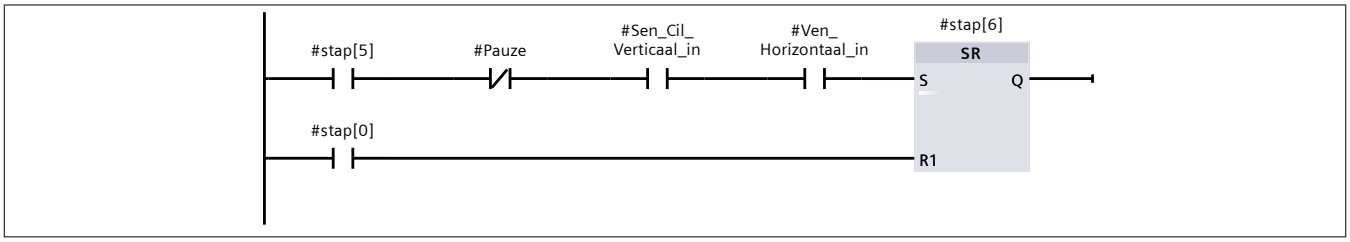
Network 5: Stap 4, Ven_magazijn_in, Ven_verticaal_uit, Ven_horizontaal_uit, zuiger



Network 6: Stap 5, Ven_verticaal_in, Ven_horizontaal_in

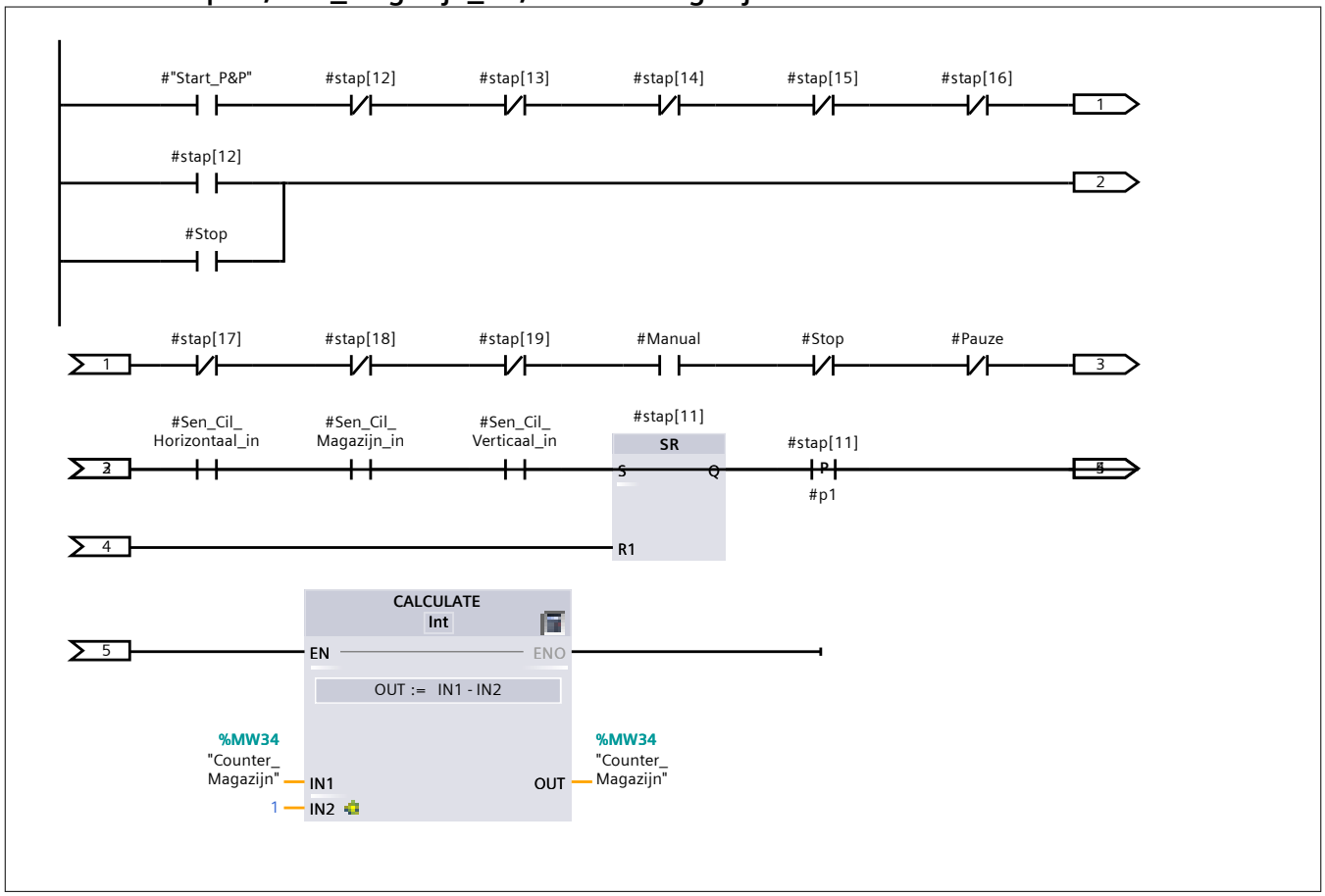


Network 7: Stap 6, puls dat blokje op de band geleverd is

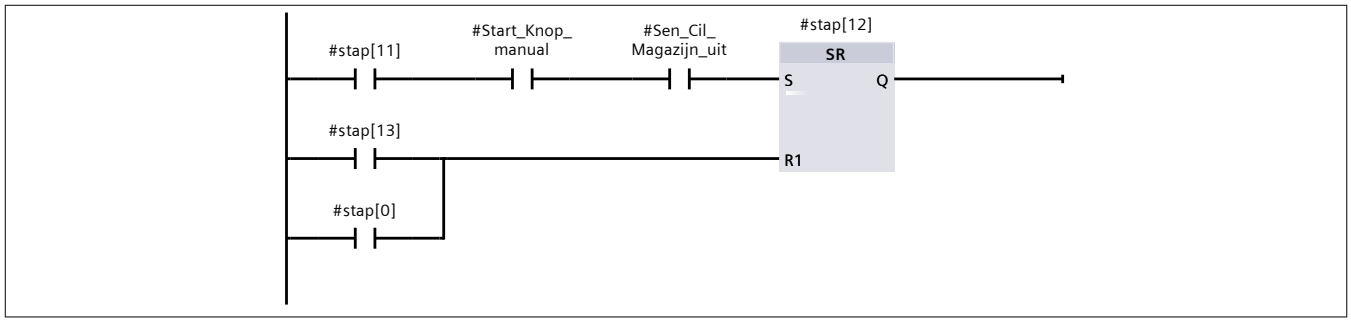


Network 8: Stap 11, Ven_Magazijn_uit, counter magazijn -1

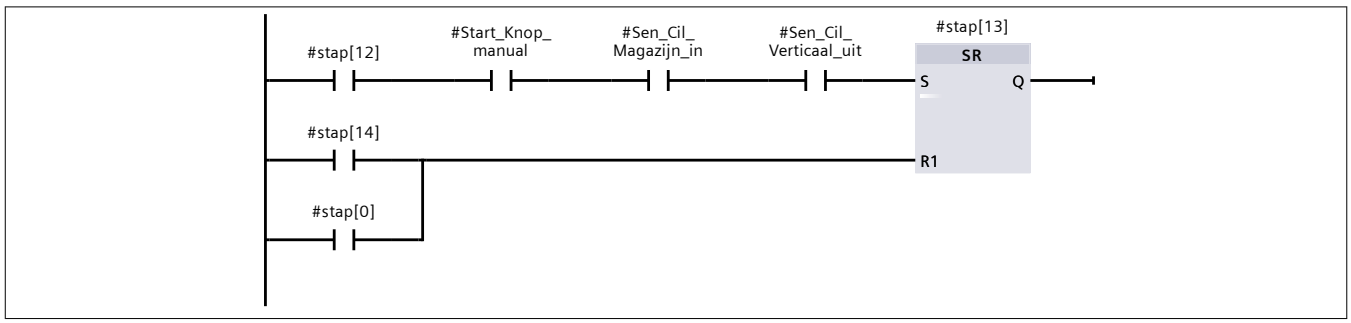
Network 8: Stap 11, Ven_Magazijn_uit, counter magazijn -1



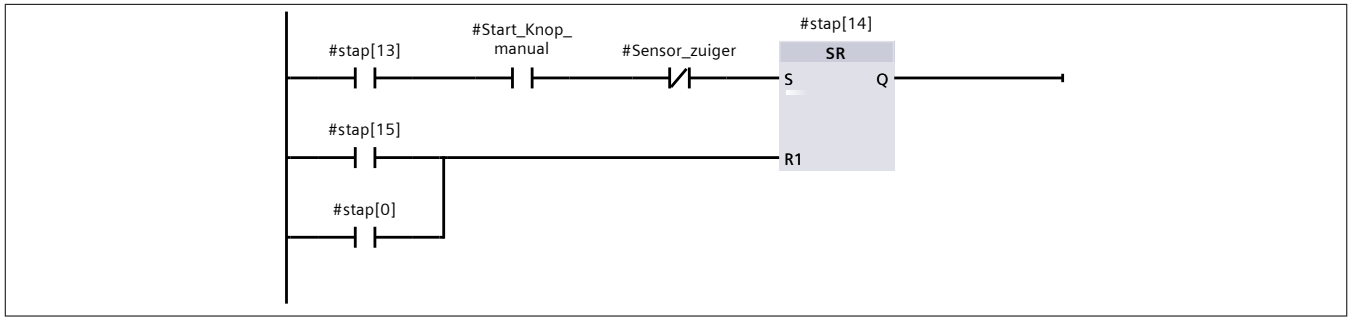
Network 9: Stap 12, Ven_magazijn_in, Ven_verticaal_uit



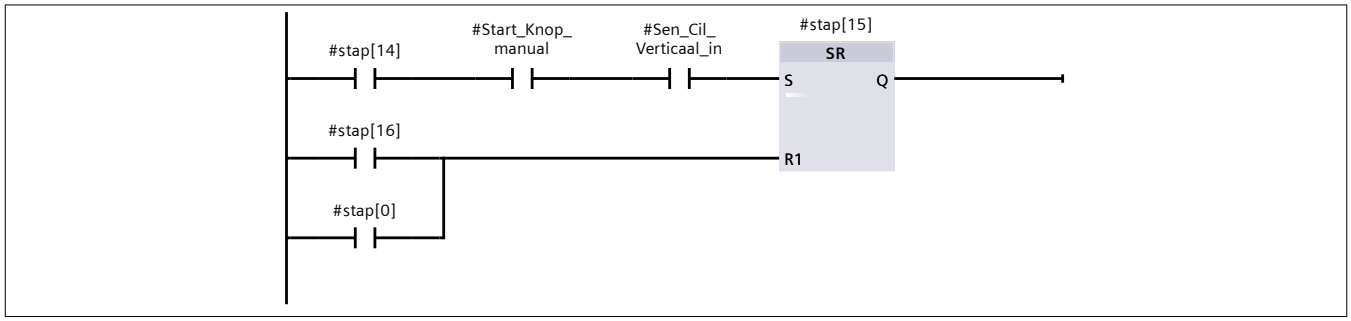
Network 10: Stap 13, zuiger



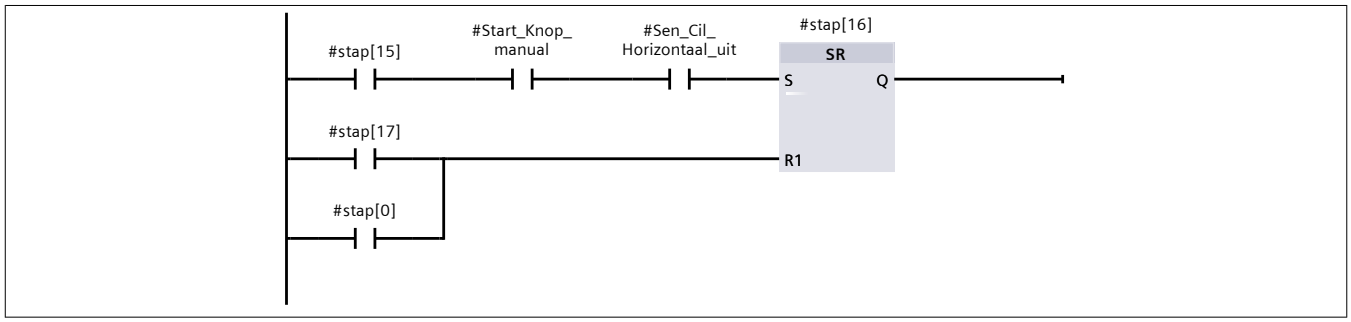
Network 11: stap 15, ven_verticaal_in, zuiger



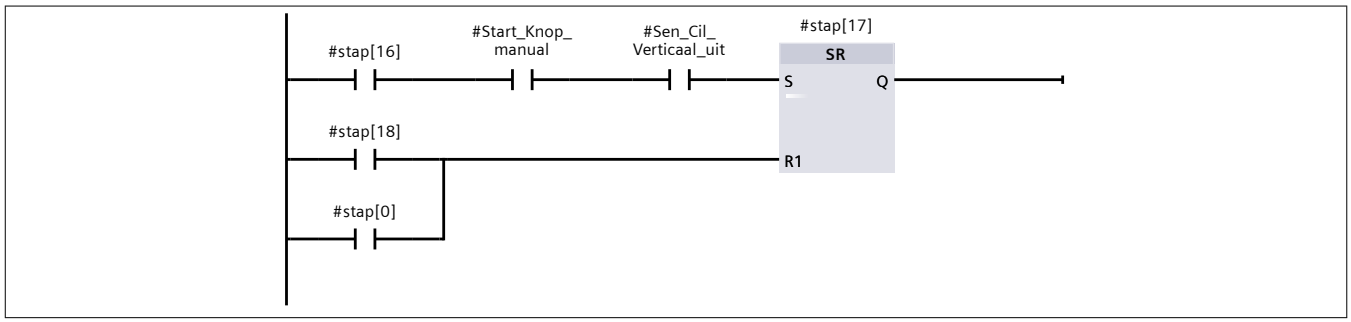
Network 12: Stap 15, Ven_horizontaal_uit, zuiger



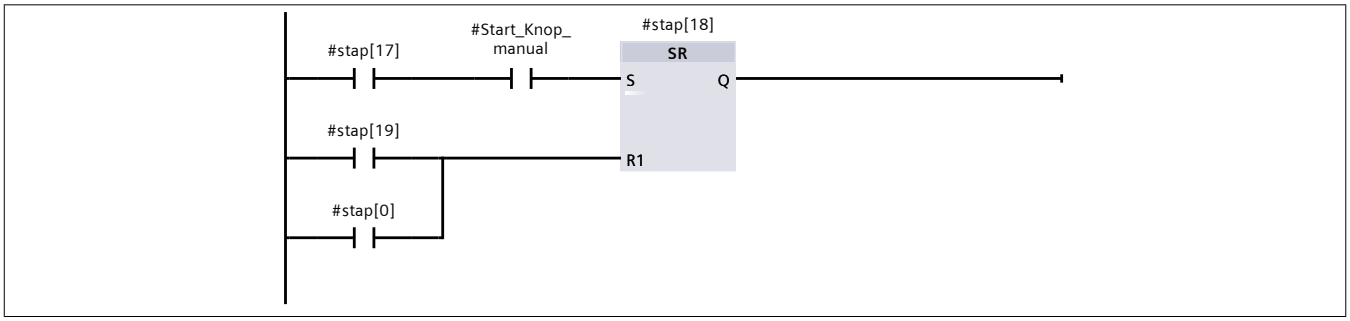
Network 13: Stap 16, Ven_Verticaal_uit, zuiger



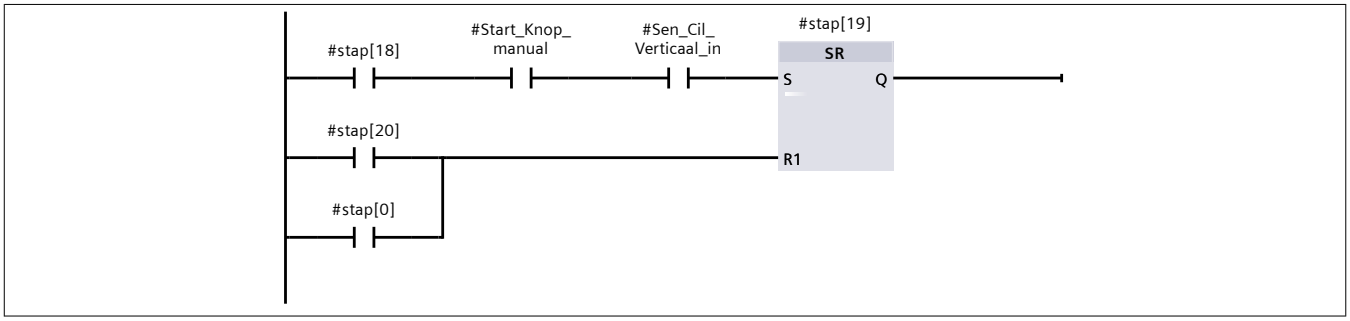
Network 14: Stap 17, zuiger gaat uit



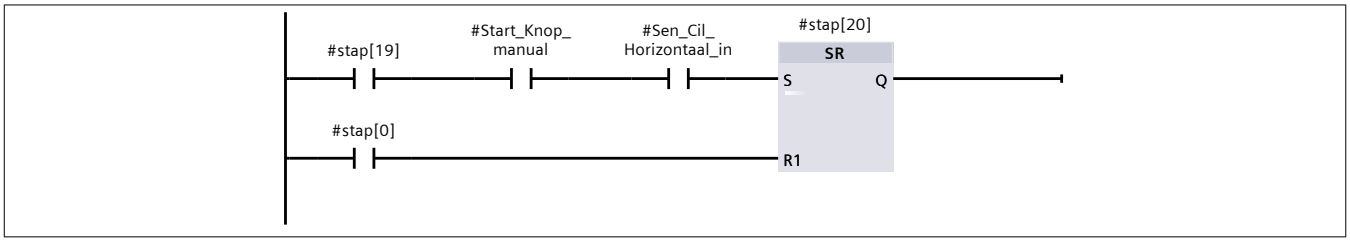
Network 15: Stap 18, Ven_veticaal_in



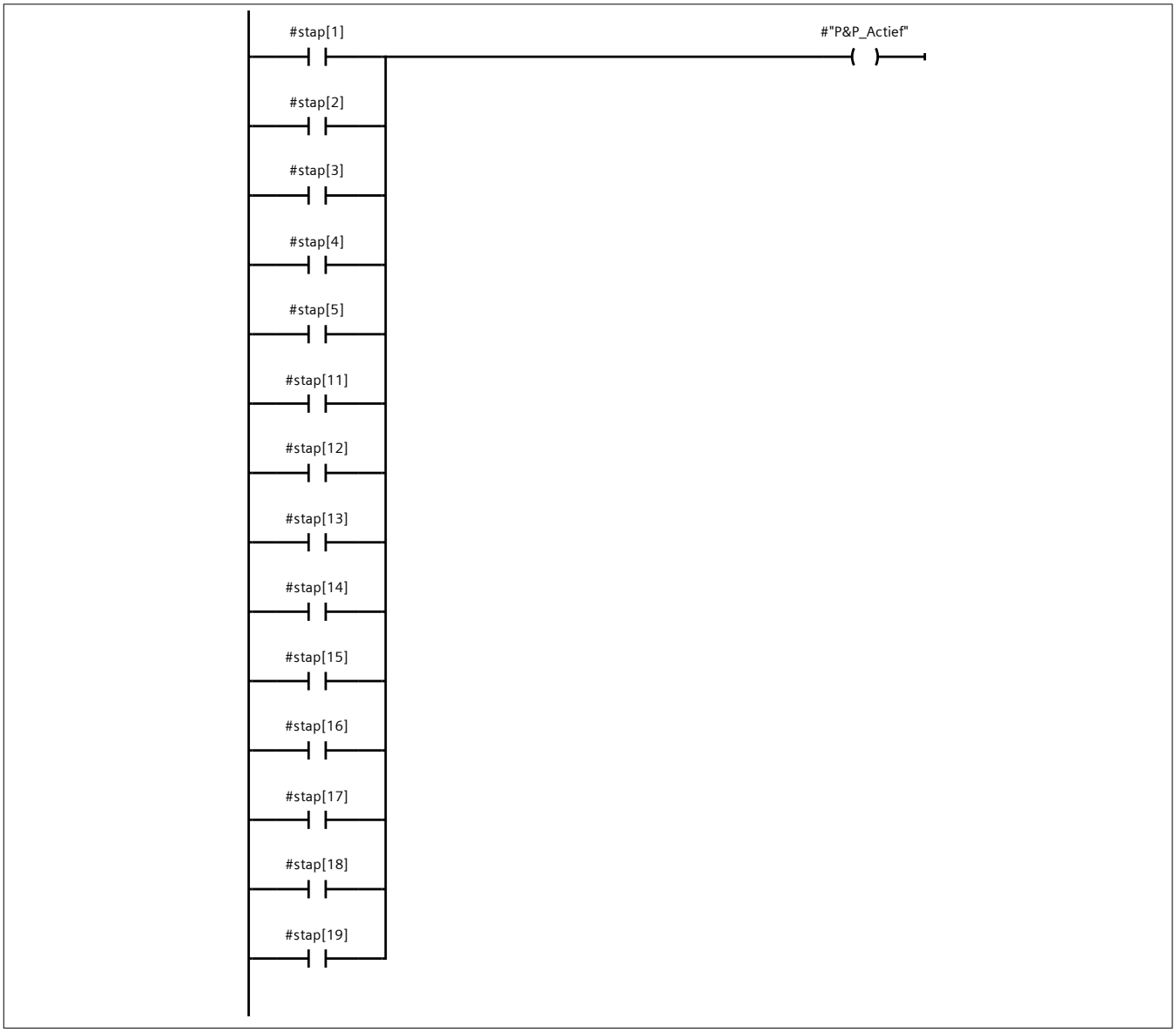
Network 16: Stap 19, Ven_horizontaal_in



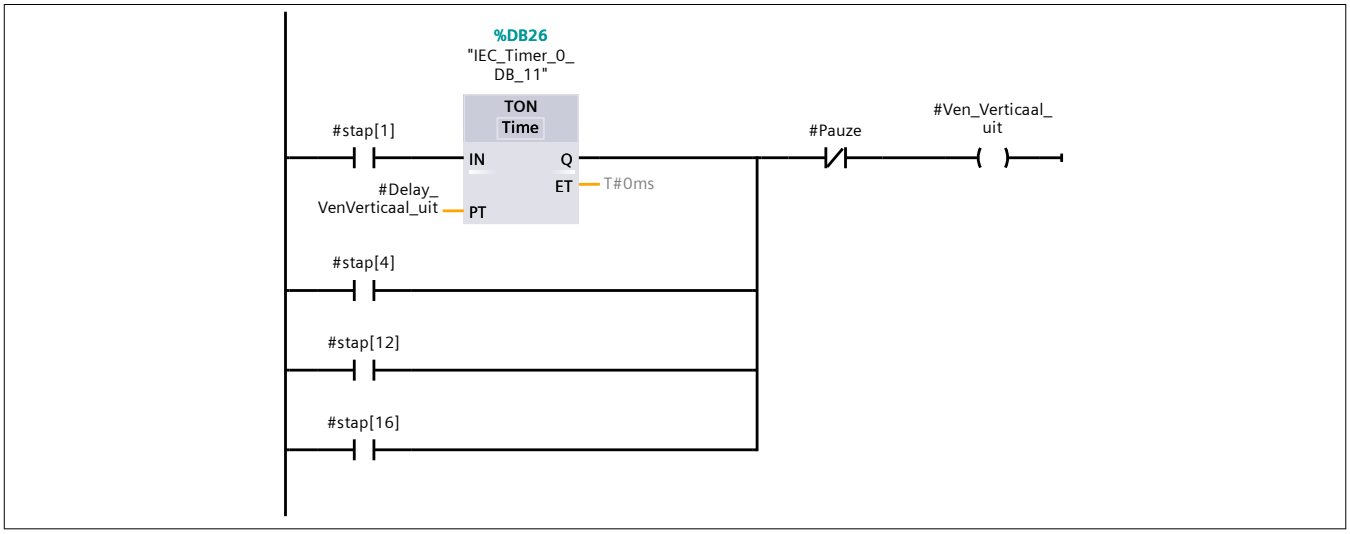
Network 17: Stap 20, stuur puls dat blokje geleverd is op band



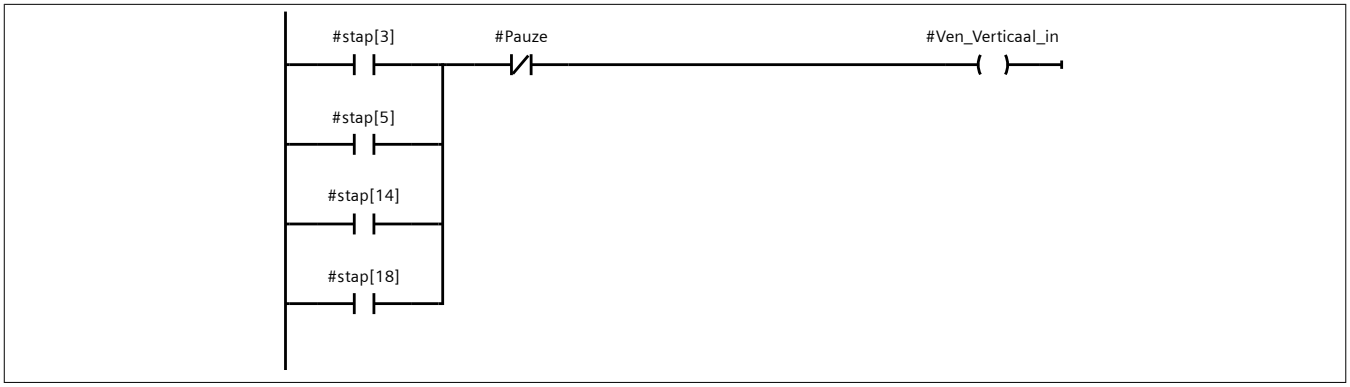
Network 18: Uitsturing P&P Actief



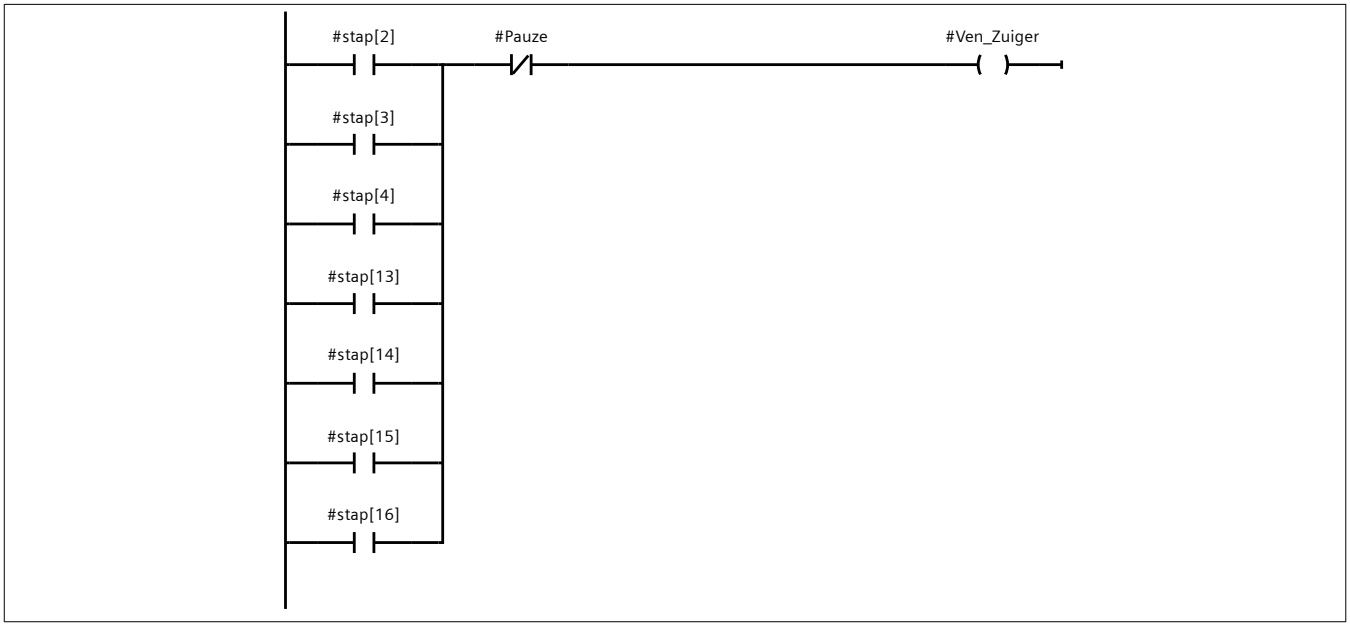
Network 19: Uistruing Ven_Verticaal_uit



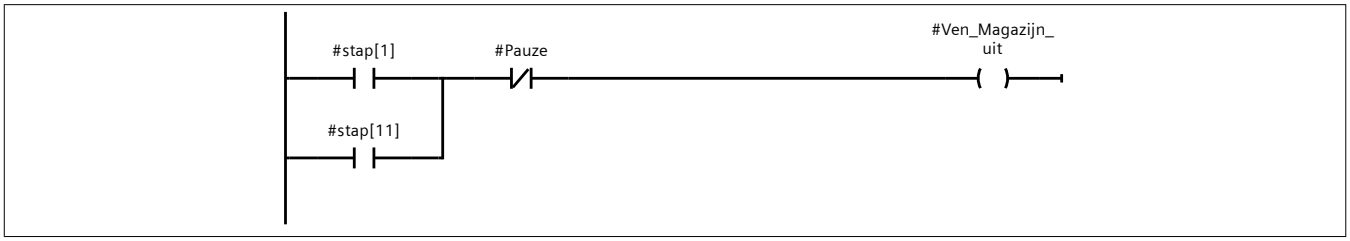
Network 20: Uistruing Ven_Verticaal_in



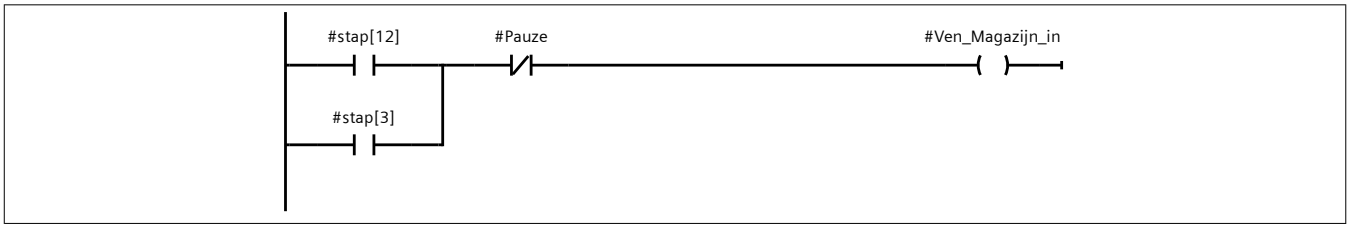
Network 21: Uistruing zuiger



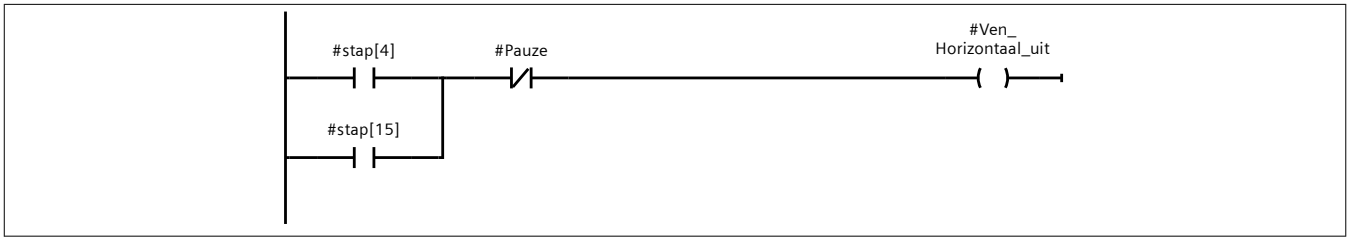
Network 22: Uistuirng Ven_Magazijn_uit



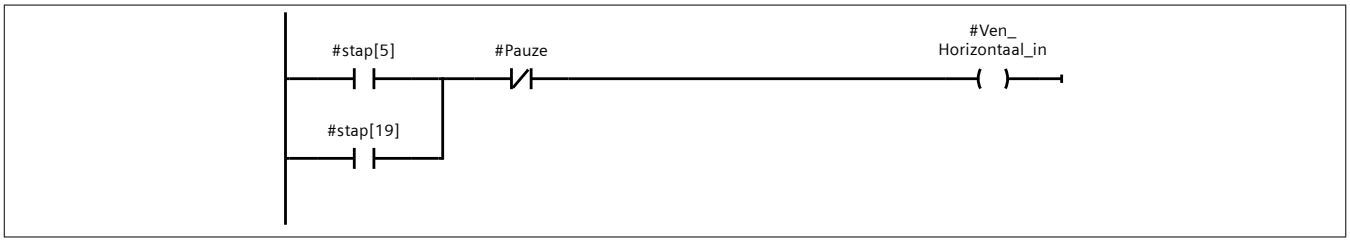
Network 23: Uitsturing Van_Magazijn_in



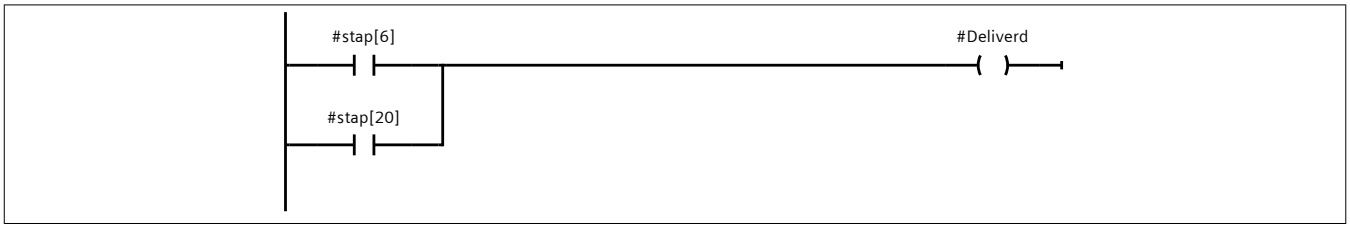
Network 24: Uitsturing Ven_Horizontaal_uit



Network 25: Uitsturing Ven_Horizontaal_in



Network 26: Uitsturing Deliverd



Program blocks

BrengNaar_2 [FB9]

BrengNaar_2 Properties					
General					
Name	BrengNaar_2	**Number**	9	**Type**	FB
Language	SCL	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Set-point	Supervision	Comment
▼ Input									
Camera_Goedgekeurd	Bool	false	Non-retain	False	False	False	False		
Sensor_Metaal	Bool	false	Non-retain	False	False	False	False		
done	Bool	false	Non-retain	True	True	True	False		
UnderCamera	Bool	false	Non-retain	True	True	True	False		
ready	Bool	false	Non-retain	True	True	True	False		
aan	Bool	false	Non-retain	True	True	True	False		
reset	Bool	false	Non-retain	True	True	True	False		
Output									
InOut									
▼ Static									
▼ Bak	Array[0..3] of Bool		Non-retain	True	True	True	False		
Bak[0]	Bool	false	Non-retain	True	True	True	False		
Bak[1]	Bool	false	Non-retain	True	True	True	False		
Bak[2]	Bool	false	Non-retain	True	True	True	False		
Bak[3]	Bool	false	Non-retain	True	True	True	False		
timerON	Bool	false	Non-retain	True	True	True	False		
TimerDone	Bool	false	Non-retain	True	True	True	False		
i	Int	0	Non-retain	True	True	True	False		
Delay_camera	Time	T#0ms	Non-retain	True	True	True	False		

Name	Data type	Default value	Retain	Acces-sible from HMI/OPC UA	Wri ta-ble fro m HM I/O PC UA	Visible in HMI engi-neer-ing	Set-point	Super-vision	Comment
et	Time	T#0ms	Non-retain	True	Tru e	True	False		
Temp									
Constant									
Tacho_Camera	Int	5							

```
0001
0002 IF #done = TRUE THEN
0003   FOR #i := 1 TO 3 DO
0004     #Bak[#i] := FALSE;
0005   END_FOR;
0006 END_IF;
0007 IF #ready = TRUE OR #Bak[1] = TRUE OR #Bak[2] = TRUE OR #Bak[3] = TRUE THEN
0008   #Bak[0] := FALSE;
0009 END_IF;
0010 IF #reset = TRUE THEN
0011   FOR #i := 0 TO 3 DO
0012     #Bak[#i] := FALSE;
0013   END_FOR;
0014 END_IF;
0015 IF #aan = TRUE AND #reset = FALSE THEN
0016   IF #UnderCamera = TRUE AND #ready = TRUE THEN
0017     IF #Camera_Goedgekeurd = TRUE THEN
0018       "Status_Camera_HMI" := 1;
0019       IF "Status_Sensor_Inductief_HMI" = 1 THEN
0020         #Bak["Bak_metaal"] := TRUE;
0021       END_IF;
0022       IF "Status_Sensor_Inductief_HMI" = 2 THEN
0023         #Bak["Bak_plastic"] := TRUE;
0024       END_IF;
0025     END_IF;
0026     IF #Camera_Goedgekeurd = FALSE AND "Status_Camera_HMI" = 0 THEN
0027       "Status_Camera_HMI" := 2;
0028       #Bak["Bak_foutief"] := TRUE;
0029     END_IF;
0030   ELSE
0031     IF #Sensor_Metaal = TRUE THEN
0032       IF "Controleer_Metaal" = TRUE THEN
0033         #Bak[0] := TRUE;
0034       ELSE
0035         #Bak["Bak_metaal"] := TRUE;
0036       END_IF;
0037     ELSE
0038       IF #Sensor_Metaal = FALSE AND "Status_Sensor_Inductief_HMI" = 2 THEN
0039       IF "Controleer_Plastic" = TRUE THEN
0040         #Bak[0] := TRUE;
0041       ELSE
0042         #Bak["Bak_plastic"] := TRUE;
0043       END_IF;
0044     END_IF;
0045     END_IF;
```

```
0046    END_IF;
0047 END_IF;
0048
0049
```

Symbol	Address	Type	Comment
"Bak_foutief"	%MW32	Int	
"Bak_metaal"	%MW28	Int	
"Bak_plastic"	%MW30	Int	
"Controleer_Metaal"	%M0.0	Bool	
"Controleer_Plastic"	%M0.1	Bool	
"Status_Camera_HMI"	%MW40	Int	
"Status_Sensor_Induc-tief_HMI"	%MW38	Int	
#aan		Bool	
#Bak[0]		Bool	
#Bak[1]		Bool	
#Bak[2]		Bool	
#Bak[3]		Bool	
#Bak[*]		Bool	
#Camera_Goedgekeurd		Bool	
#done		Bool	
#i		Int	
#ready		Bool	
#reset		Bool	
#Sensor_Metaal		Bool	
#UnderCamera		Bool	

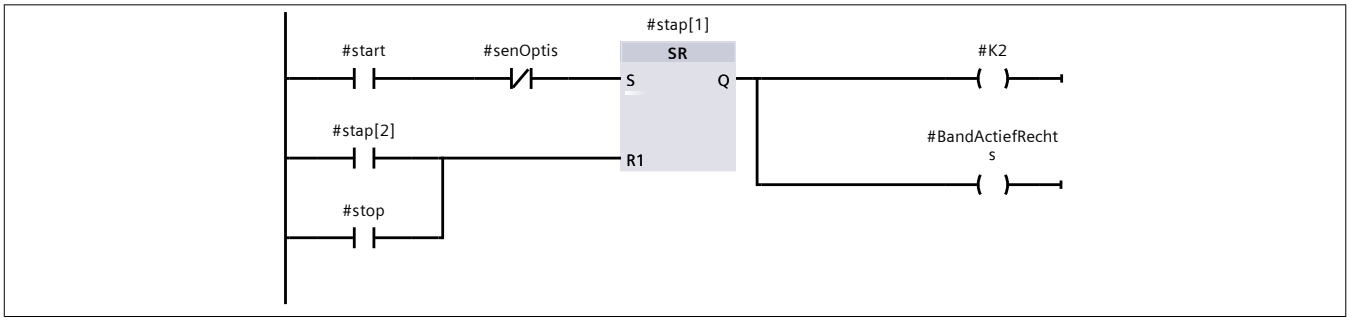
Program blocks

BN_Camera [FB6]

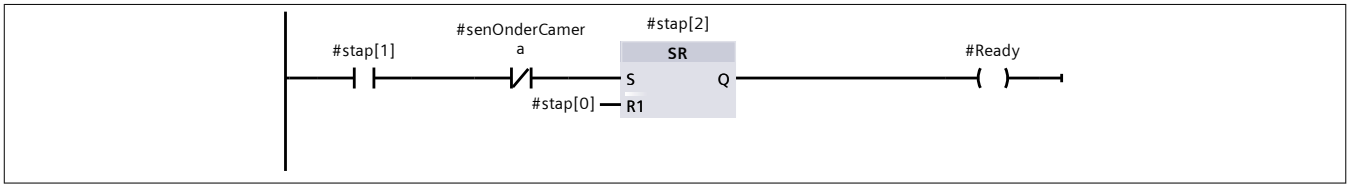
BN_Camera Properties					
General					
Name	BN_Camera	**Number**	6	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
start	Bool	false	Non-retain	True	True	True	False		
stop	Bool	false	Non-retain	True	True	True	False		
senOptis	Bool	false	Non-retain	True	True	True	False		
senOnderCamera	Bool	false	Non-retain	True	True	True	False		
Output									
InOut									
Static									
stap	Array[0..2] of Bool		Non-retain	True	True	True	False		
stap[0]	Bool	false	Non-retain	True	True	True	False		
stap[1]	Bool	false	Non-retain	True	True	True	False		
stap[2]	Bool	false	Non-retain	True	True	True	False		
K1	Bool	false	Non-retain	True	True	True	False		
K2	Bool	false	Non-retain	True	True	True	False		
BandActiefRechts	Bool	false	Non-retain	True	True	True	False		
Ready	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									
#Positie_Camera_Tachogenerator	Int	5							

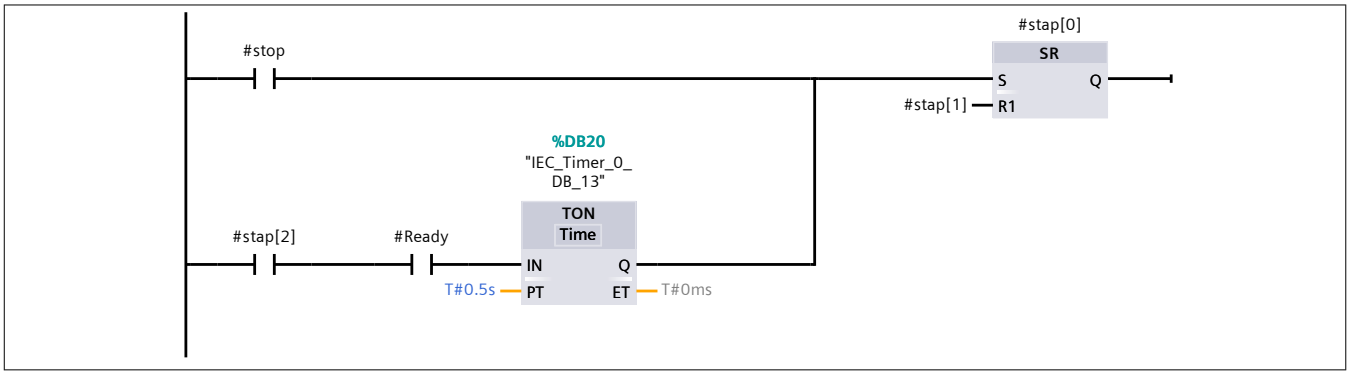
Network 1: Stap 1, Draai band Rechts



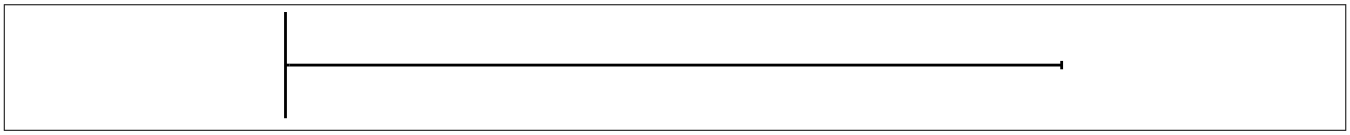
Network 2: stap 2, counter bak1 + 1, stuur Ready pulls



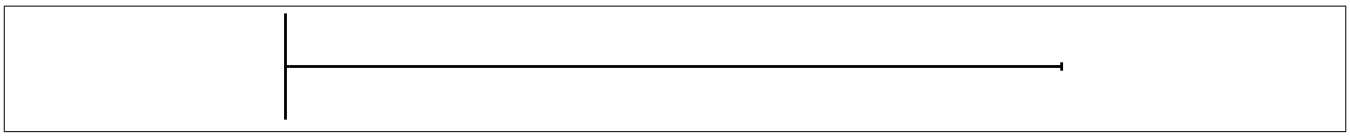
Network 3:



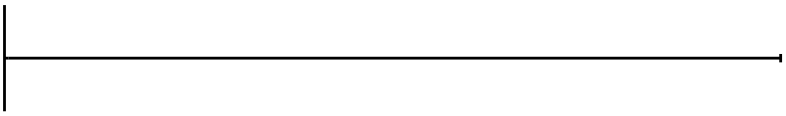
Network 4:



Network 5:



Network 6:



Program blocks

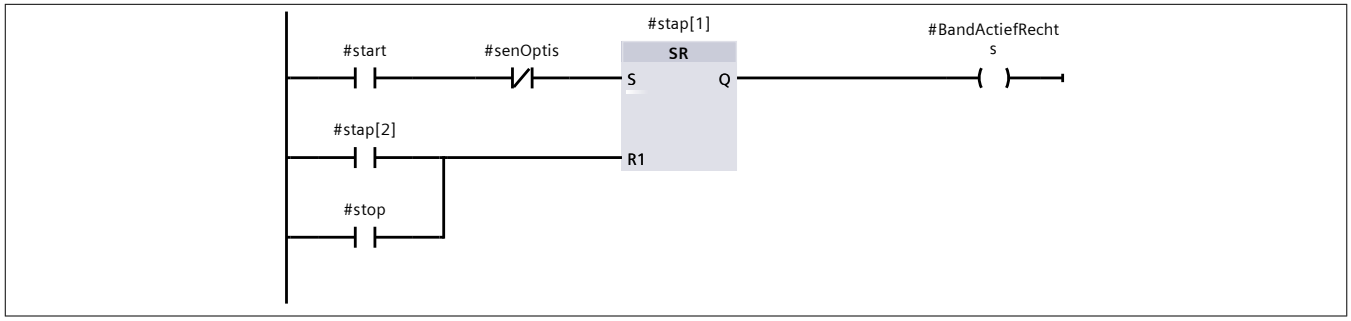
BN_Bak2 [FB8]

BN_Bak2 Properties					
General					
Name	BN_Bak2	**Number**	8	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

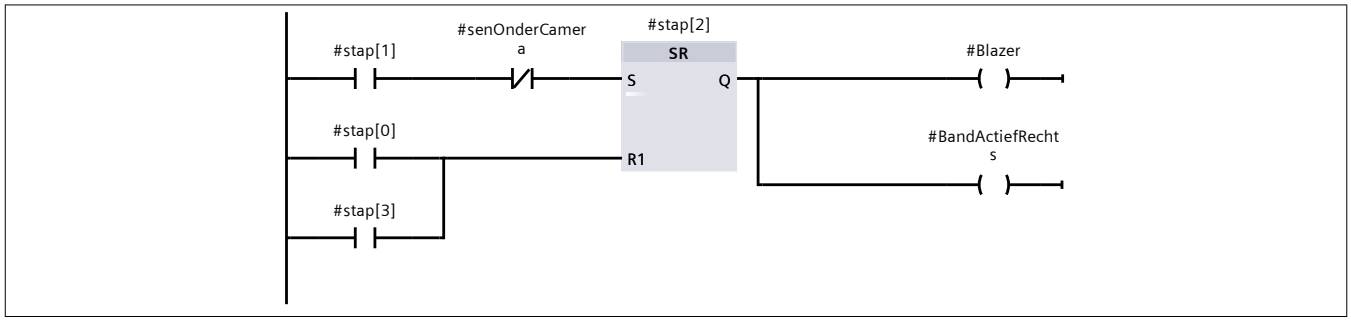
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
start	Bool	false	Non-retain	True	True	True	False		
stop	Bool	false	Non-retain	True	True	True	False		
senOptis	Bool	false	Non-retain	True	True	True	False		
senOnderCamera	Bool	false	Non-retain	True	True	True	False		
Output									
InOut									
▼ Static									
▼ stap	Array[0..3] of Bool		Non-retain	True	True	True	False		
stap[0]	Bool	false	Non-retain	True	True	True	False		
stap[1]	Bool	false	Non-retain	True	True	True	False		
stap[2]	Bool	false	Non-retain	True	True	True	False		
stap[3]	Bool	false	Non-retain	True	True	True	False		
K1	Bool	false	Non-retain	True	True	True	False		
K2	Bool	false	Non-retain	True	True	True	False		
BandActiefRechts	Bool	false	Non-retain	True	True	True	False		
Done	Bool	false	Non-retain	True	True	True	False		
p	Bool	false	Non-retain	True	True	True	False		
Blazer	Bool	false	Non-retain	True	True	True	False		
Temp									
▼ Constant									

Name	Data type	Default value	Retain	Acces-sible from HMI/OPC UA	Wri ta-ble fro m HM I/O PC UA	Visible in HMI engi-neer-ing	Set-point	Super-vision	Comment
Positie_Blazer_Ta-choGenerator	Int	7							

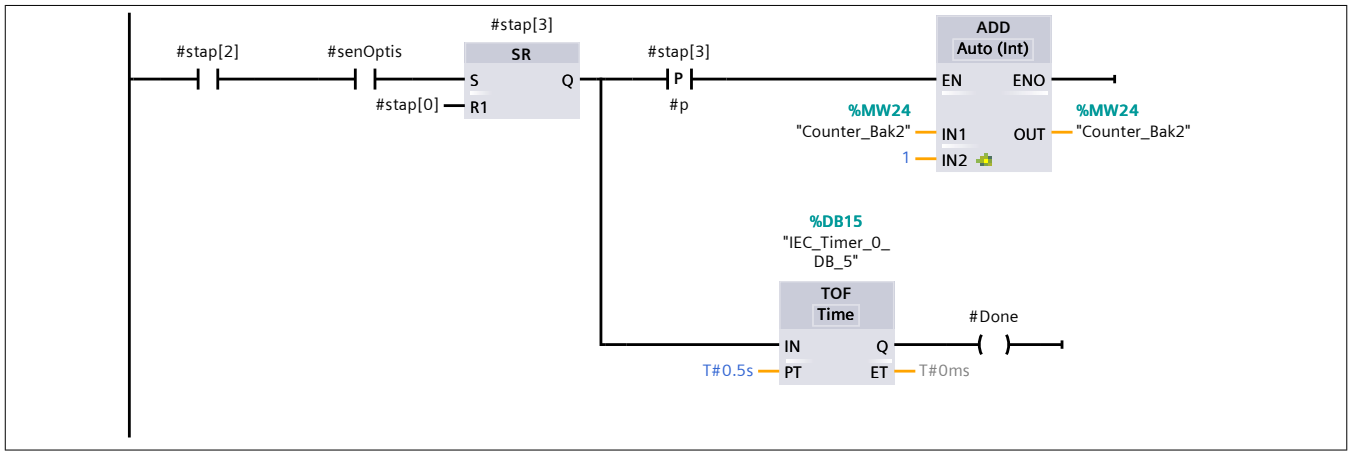
Network 1: Stap 1, Draai band Rechts



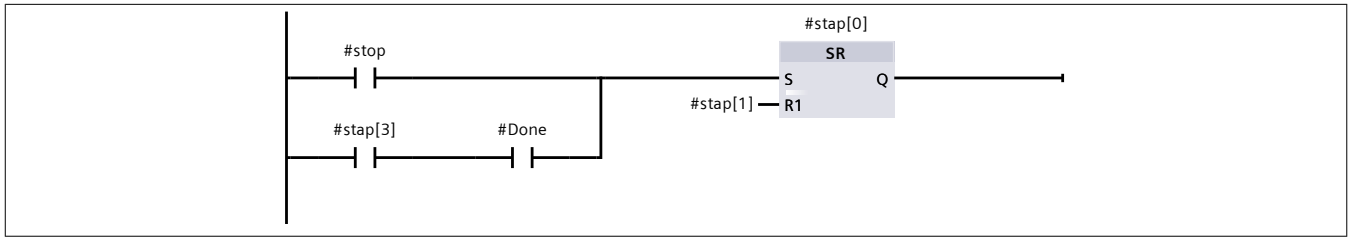
Network 2: stap 2, Blazer aan



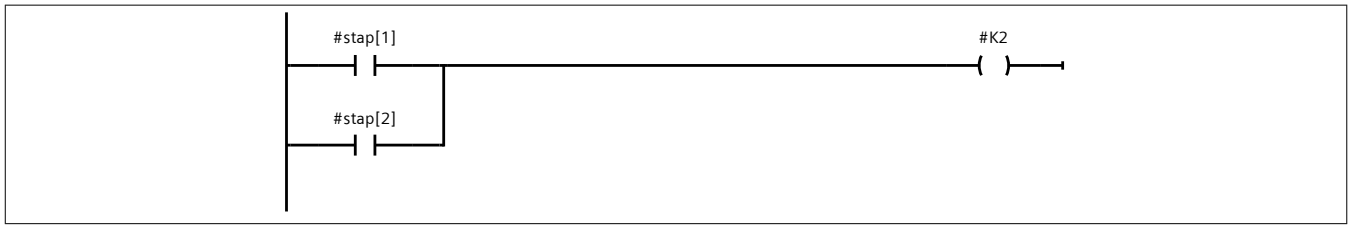
Network 3: Stap 3, counter bak 2 + 1, stuur done pulls



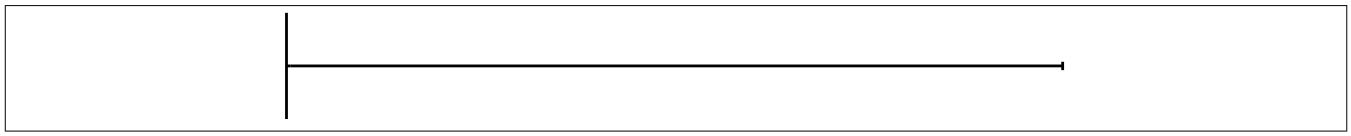
Network 4:



Network 5:



Network 6:



Program blocks

Aansturing motor [FB4]

Aansturing motor Properties					
General					
Name	Aansturing motor	**Number**	4	**Type**	FB
Language	SCL	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Set-point	Supervision	Comment
Input									
band_rechts	Bool	false	Non-retain	True	True	True	False		
Output									
PWM	Bool	false	Non-retain	True	True	True	False		
InOut									
Static									
snelheid	Int	3	Non-retain	True	True	True	False		
counter	Int	0	Non-retain	True	True	True	False		
Temp									
Constant									

```
0001 IF #band_rechts = FALSE THEN
0002   #PWM := FALSE;
0003   #counter := 0;
0004 ELSE
0005   IF #band_rechts = TRUE AND #PWM = TRUE AND #snelheid > 0 THEN
0006     #PWM := FALSE;
0007   ELSE
0008     IF #band_rechts = TRUE AND #PWM = FALSE AND #snelheid = 1 THEN
0009       #PWM := TRUE;
0010       #counter := 0;
0011     END_IF;
0012     IF #band_rechts = TRUE AND #PWM = FALSE AND #snelheid = 2 AND #counter > 1
     THEN
0013       #PWM := TRUE;
0014       #counter := 0;
0015     END_IF;
0016     IF #band_rechts = TRUE AND #PWM = FALSE AND #snelheid = 3 AND #counter > 2
     THEN
0017       #PWM := TRUE;
0018       #counter := 0;
0019     END_IF;
```

```
0020      IF #band_rechts = TRUE AND #PWM = FALSE AND #snelheid = 4 AND #counter > 3
      THEN
0021        #PWM := TRUE;
0022        #counter := 0;
0023      END_IF;
0024      IF #band_rechts = TRUE AND #snelheid = 5 THEN
0025        #PWM := TRUE;
0026        #counter := 0;
0027      END_IF;
0028    END_IF;
0029    #counter := #counter + 1;
0030  END_IF;
0031
0032
0033
0034
```

Symbol	Address	Type	Comment
#band_rechts		Bool	
#counter		Int	
#PWM		Bool	
#snelheid		Int	

Program blocks

master [FB1]

master Properties					
General					
Name	master	**Number**	1	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title	Master functie	**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

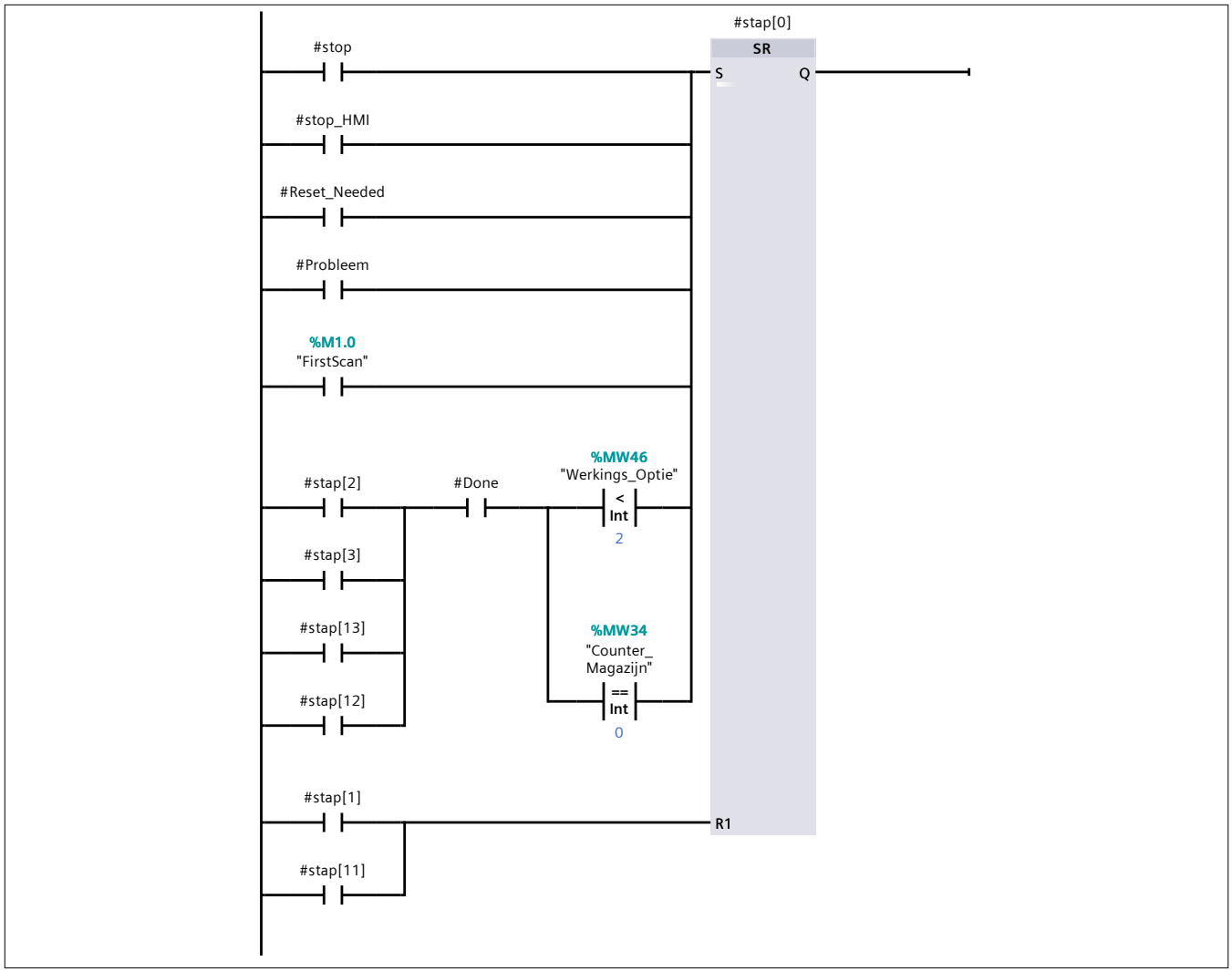
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Set-point	Supervision	Comment
▼ Input									
start	Bool	false	Non-retain	True	True	True	False		
stop	Bool	false	Non-retain	True	True	True	False		
Cil_horizontaal_in	Bool	false	Non-retain	True	True	True	False		
Cil_horizontaal_uit	Bool	false	Non-retain	True	True	True	False		
Cil_verticaal_in	Bool	false	Non-retain	True	True	True	False		
Cil_verticaal_uit	Bool	false	Non-retain	True	True	True	False		
Cil_Magazijn_in	Bool	false	Non-retain	True	True	True	False		
Cil_Magazijn_uit	Bool	false	Non-retain	True	True	True	False		
Pauze	Bool	false	Non-retain	True	True	True	False		
Sensor_optis_band	Bool	false	Non-retain	True	True	True	False		
Reset	Bool	false	Non-retain	True	True	True	False		
Sensor_optis_magazijn	Bool	false	Non-retain	True	True	True	False		
Camera_goedgekeurd	Bool	false	Non-retain	True	True	True	False		
Sensor_inductief_tacho	Bool	false	Non-retain	True	True	True	False		
Sensor_inductief_materiaal	Int	0	Non-retain	True	True	True	False		
Sensor_zuiger	Bool	false	Non-retain	True	True	True	False		
▼ Output									
Band_K1	Bool	false	Non-retain	True	True	True	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Band_K2	Bool	false	Non-retain	True	True	True	False		
Blazer	Bool	false	Non-retain	True	True	True	False		
Zuiger	Bool	false	Non-retain	True	True	True	False		
Ven_horizontaal_in	Bool	false	Non-retain	True	True	True	False		
Ven_Verticaal_in	Bool	false	Non-retain	True	True	True	False		
Ven_Magazijn_in	Bool	false	Non-retain	True	True	True	False		
Ven_horizontaal_uit	Bool	false	Non-retain	True	True	True	False		
Ven_verticaal_uit	Bool	false	Non-retain	True	True	True	False		
Ven_Magazijn_uit	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
▼ stap	Array[0..13] of Bool		Non-retain	False	False	False	False		
stap[0]	Bool	false	Non-retain	False	False	False	False		
stap[1]	Bool	false	Non-retain	False	False	False	False		
stap[2]	Bool	false	Non-retain	False	False	False	False		
stap[3]	Bool	false	Non-retain	False	False	False	False		
stap[4]	Bool	false	Non-retain	False	False	False	False		
stap[5]	Bool	false	Non-retain	False	False	False	False		
stap[6]	Bool	false	Non-retain	False	False	False	False		
stap[7]	Bool	false	Non-retain	False	False	False	False		
stap[8]	Bool	false	Non-retain	False	False	False	False		
stap[9]	Bool	false	Non-retain	False	False	False	False		
stap[10]	Bool	false	Non-retain	False	False	False	False		
stap[11]	Bool	false	Non-retain	False	False	False	False		
stap[12]	Bool	false	Non-retain	False	False	False	False		
stap[13]	Bool	false	Non-retain	False	False	False	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Metaal	Bool	false	Non-retain	True	True	True	False		
Reset_Done	Bool	false	Non-retain	False	False	False	False		
Gepauzeerd	Bool	false	Non-retain	False	False	False	False		
Reset_Needed	Bool	false	Non-retain	False	False	False	False		
Ready	Bool	false	Non-retain	False	False	False	False		
BandActiefRechts	Bool	false	Non-retain	False	False	False	False		
BandActiefLlinks	Bool	false	Non-retain	False	False	False	False		
Delivered	Bool	false	Non-retain	True	True	True	False		
Done	Bool	false	Non-retain	False	False	False	False		
Probleem_Over-Write	Bool	false	Non-retain	True	True	True	False		
Probleem	Bool	false	Non-retain	True	True	True	False		
start_HMI	Bool	false	Non-retain	True	True	True	False		
stop_HMI	Bool	false	Non-retain	True	True	True	False		
reset_HMI	Bool	false	Non-retain	True	True	True	False		
pauze_HMI	Bool	false	Non-retain	True	True	True	False		
Flank	Bool	false	Non-retain	True	True	True	False		
SetDefaultSettings	Bool	false	Non-retain	True	True	True	False		
ApplySettings	Bool	false	Non-retain	True	True	True	False		
▼ error	Array[0..10] of Bool		Non-retain	True	True	True	False		
error[0]	Bool	false	Non-retain	True	True	True	False		
error[1]	Bool	false	Non-retain	True	True	True	False		
error[2]	Bool	false	Non-retain	True	True	True	False		
error[3]	Bool	false	Non-retain	True	True	True	False		
error[4]	Bool	false	Non-retain	True	True	True	False		
error[5]	Bool	false	Non-retain	True	True	True	False		
error[6]	Bool	false	Non-retain	True	True	True	False		

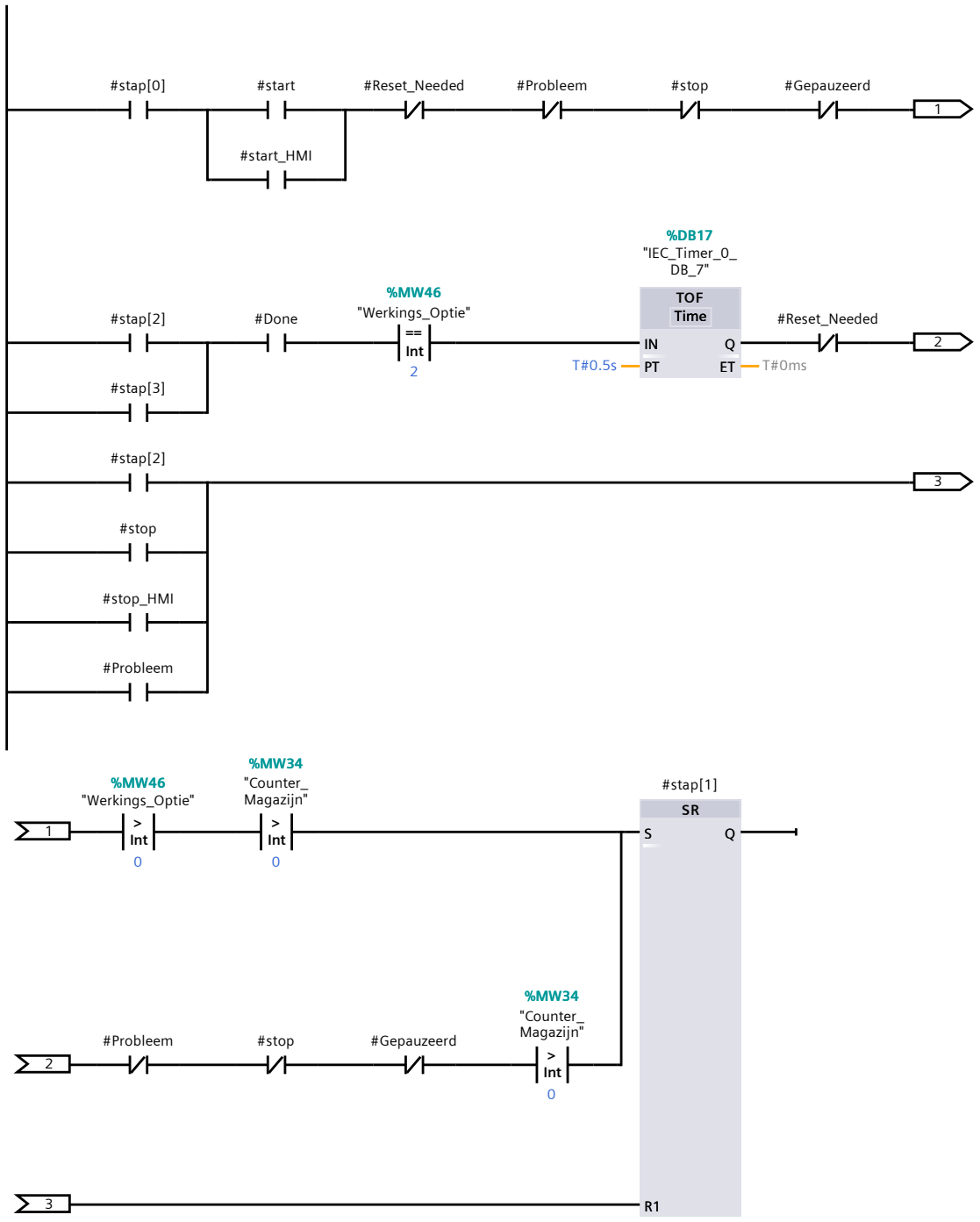
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Set-point	Supervision	Comment
error[7]	Bool	false	Non-retain	True	True	True	False		
error[8]	Bool	false	Non-retain	True	True	True	False		
error[9]	Bool	false	Non-retain	True	True	True	False		
error[10]	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

Network 1: Stap 0, Rust

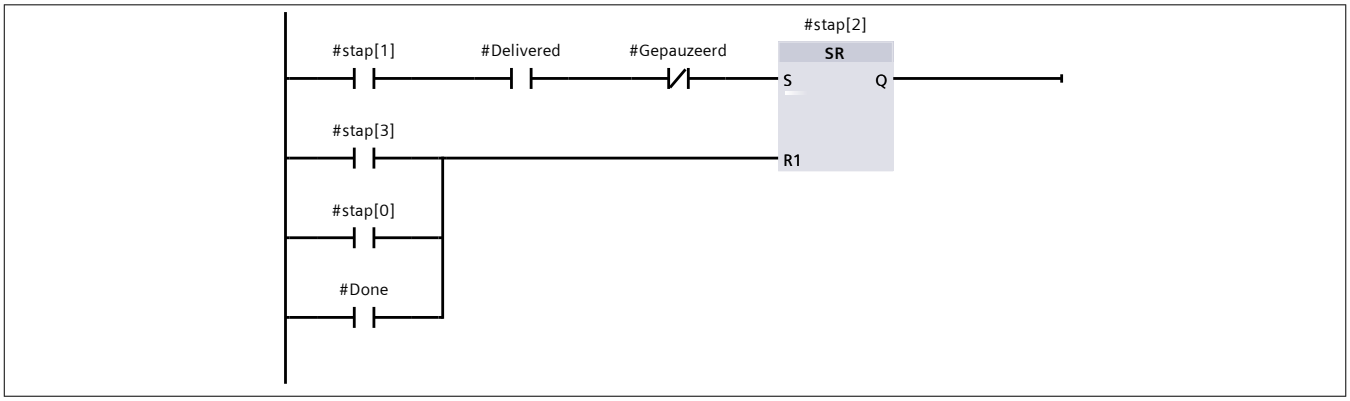


Network 2: Stap 1, Functie P&P

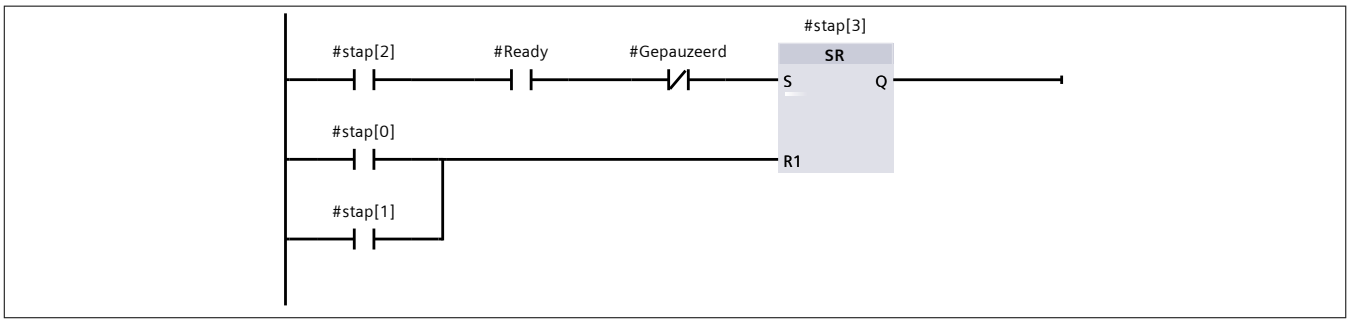
Network 2: Stap 1, Functie P&P



Network 3: Stap 2, breng naar

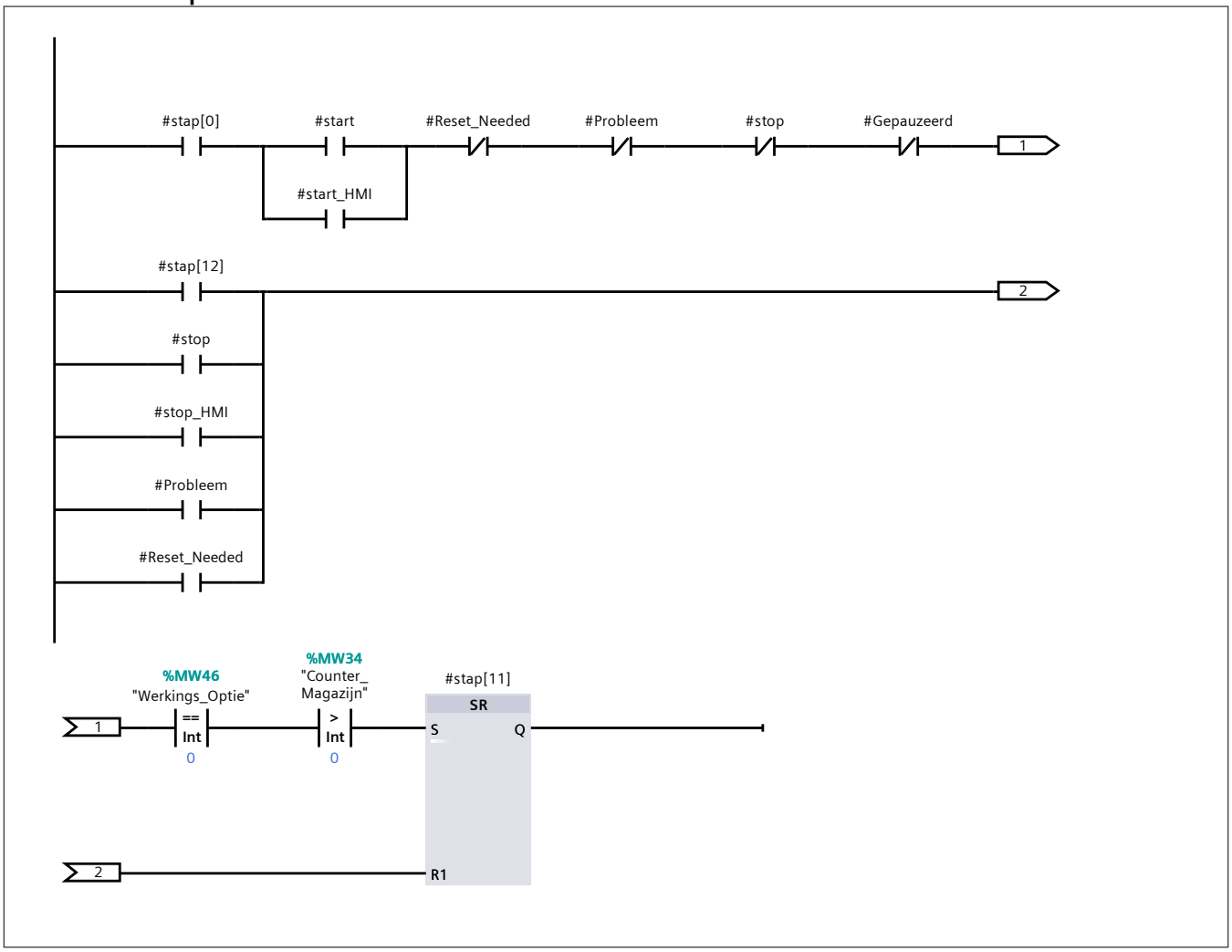


Network 4: Stap 3, Zet de status camera op foutief op HMI, Breng naar juiste bak voor foutief

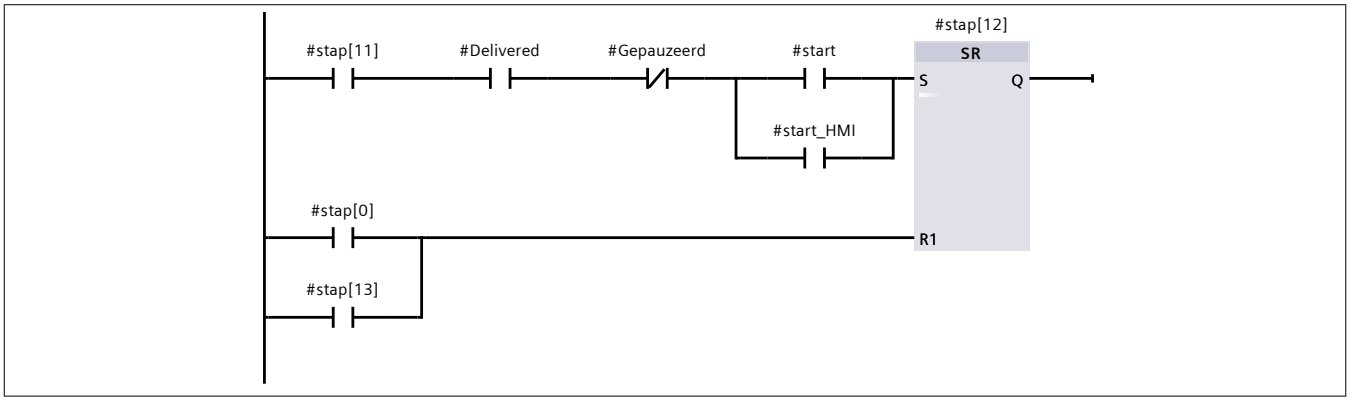


Network 5: stap 11

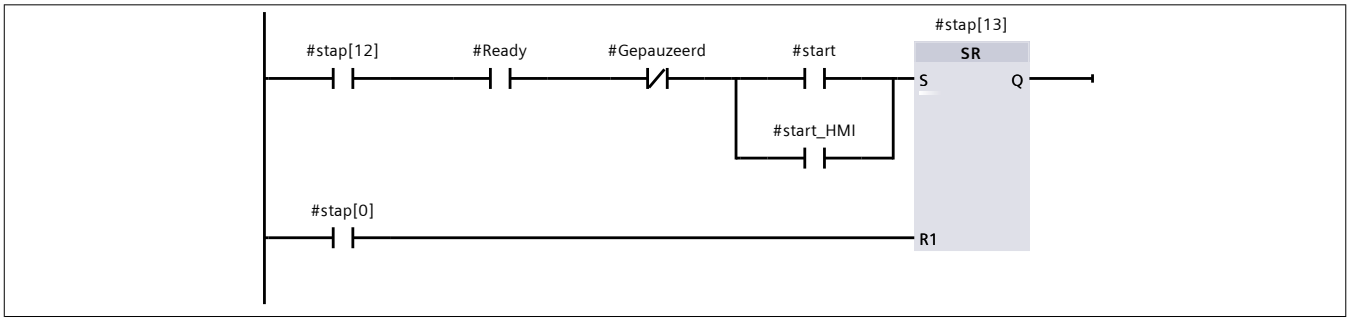
Network 5: stap 11



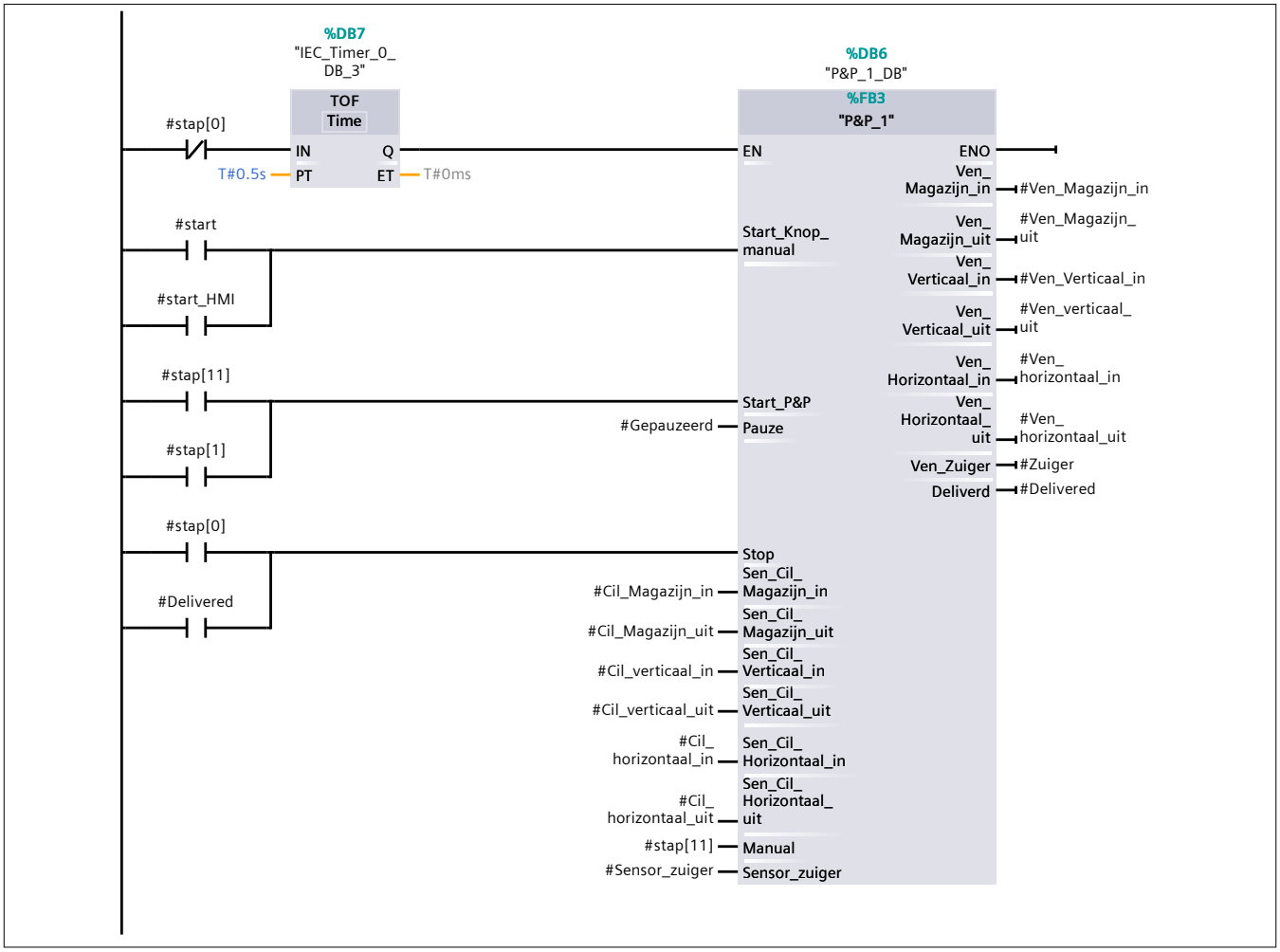
Network 6: stap 12



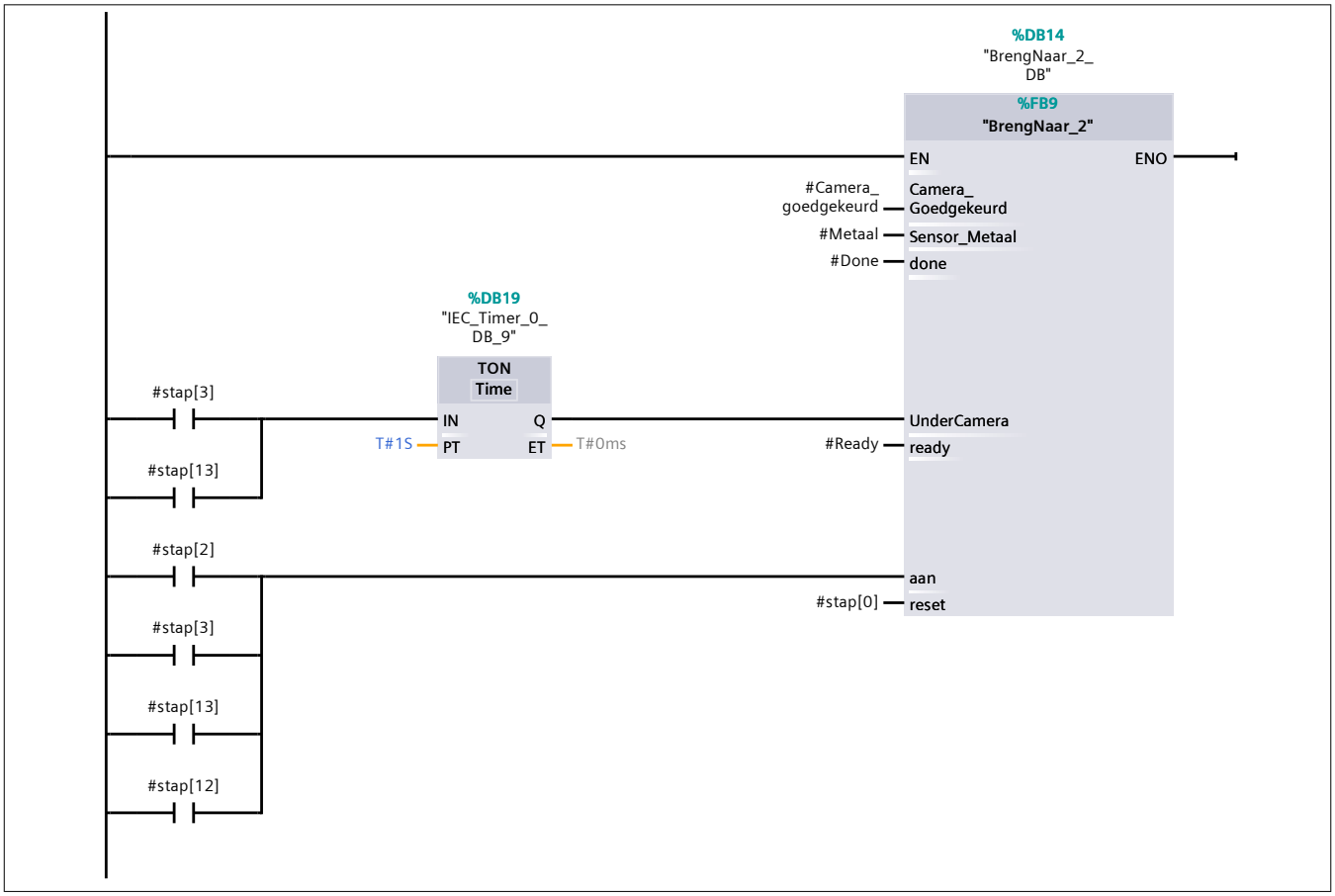
Network 7: stap 13



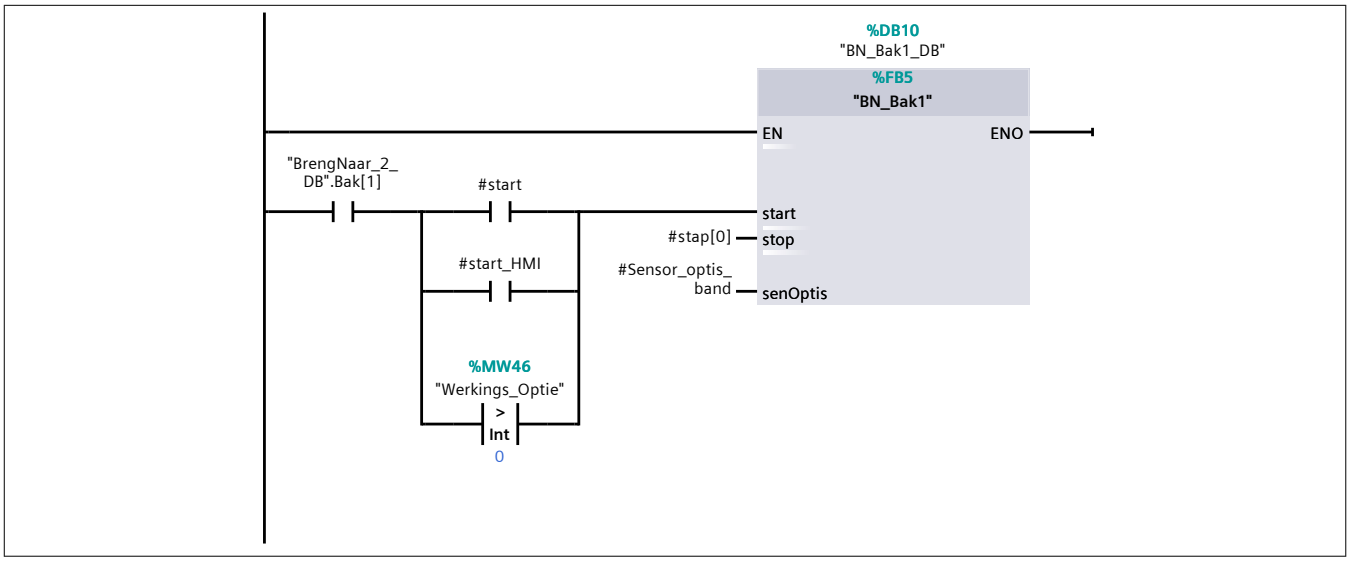
Network 8: P&P functie



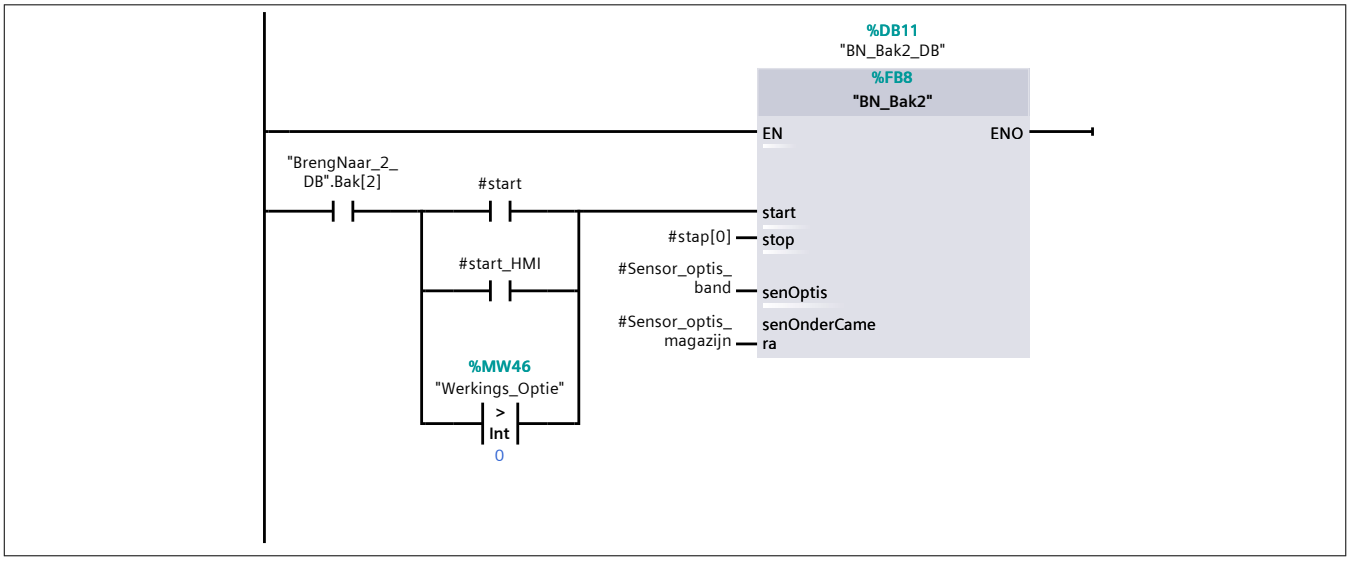
Network 9: Brengnaar Functie



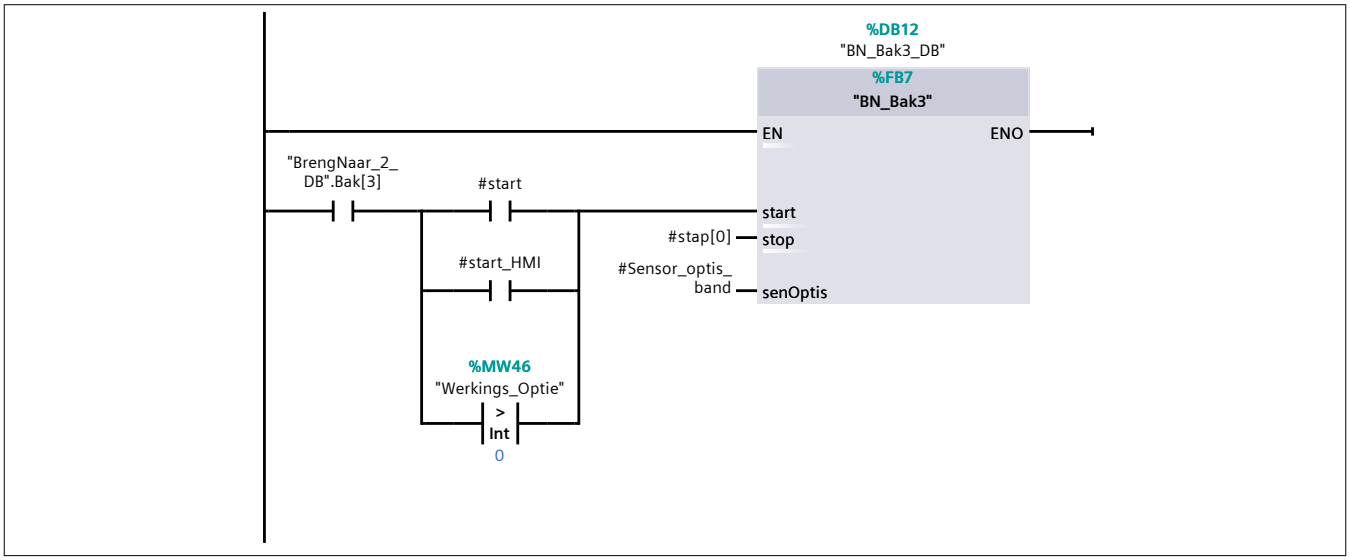
Network 10:



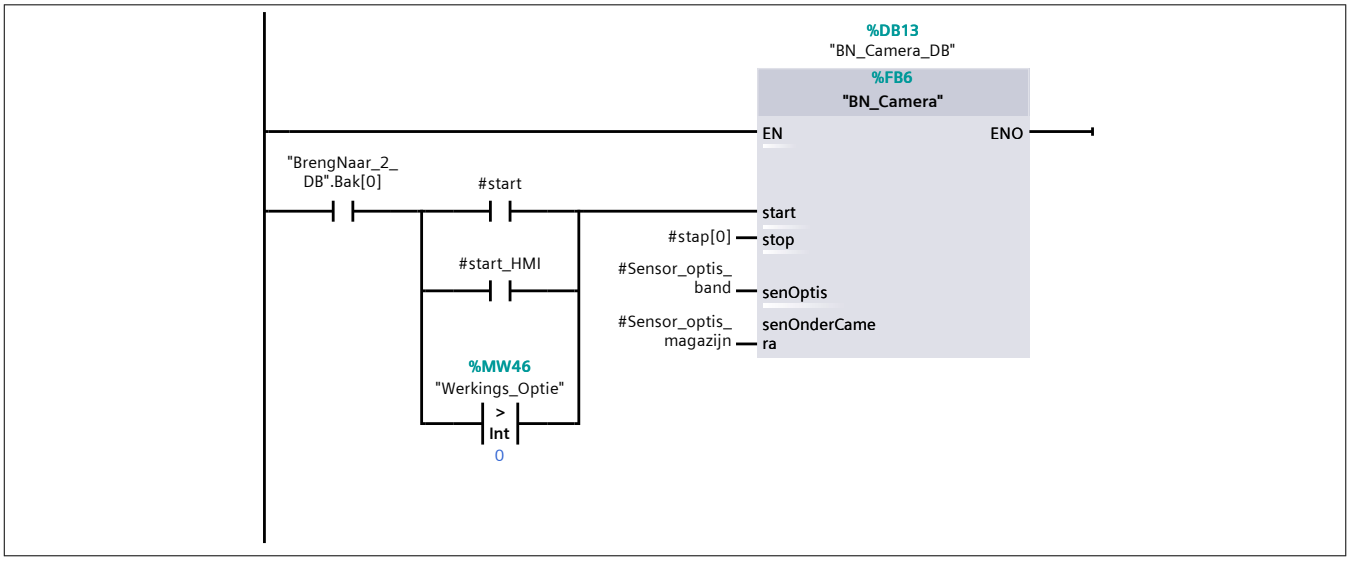
Network 11:



Network 12:

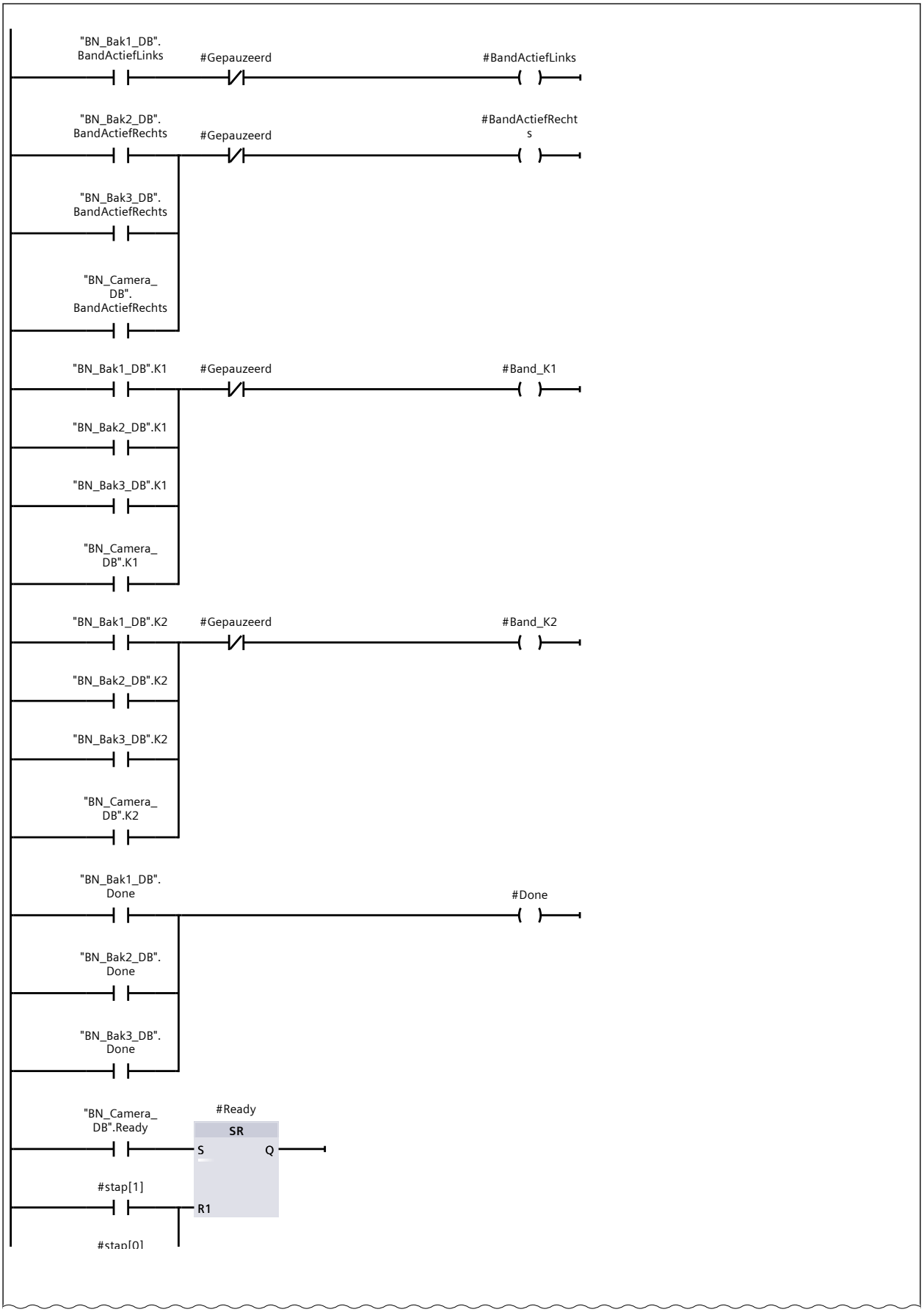


Network 13:



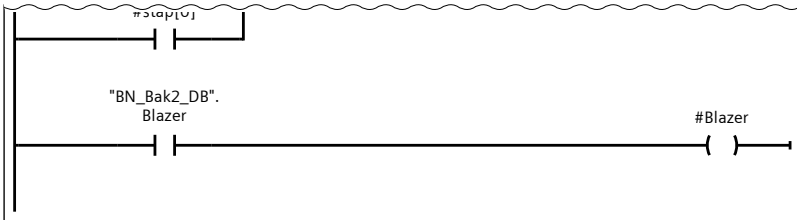
Network 14: Uitgangen BrengNaar

Network 14: Uitgangen BrengNaar (1.1 / 2.1)



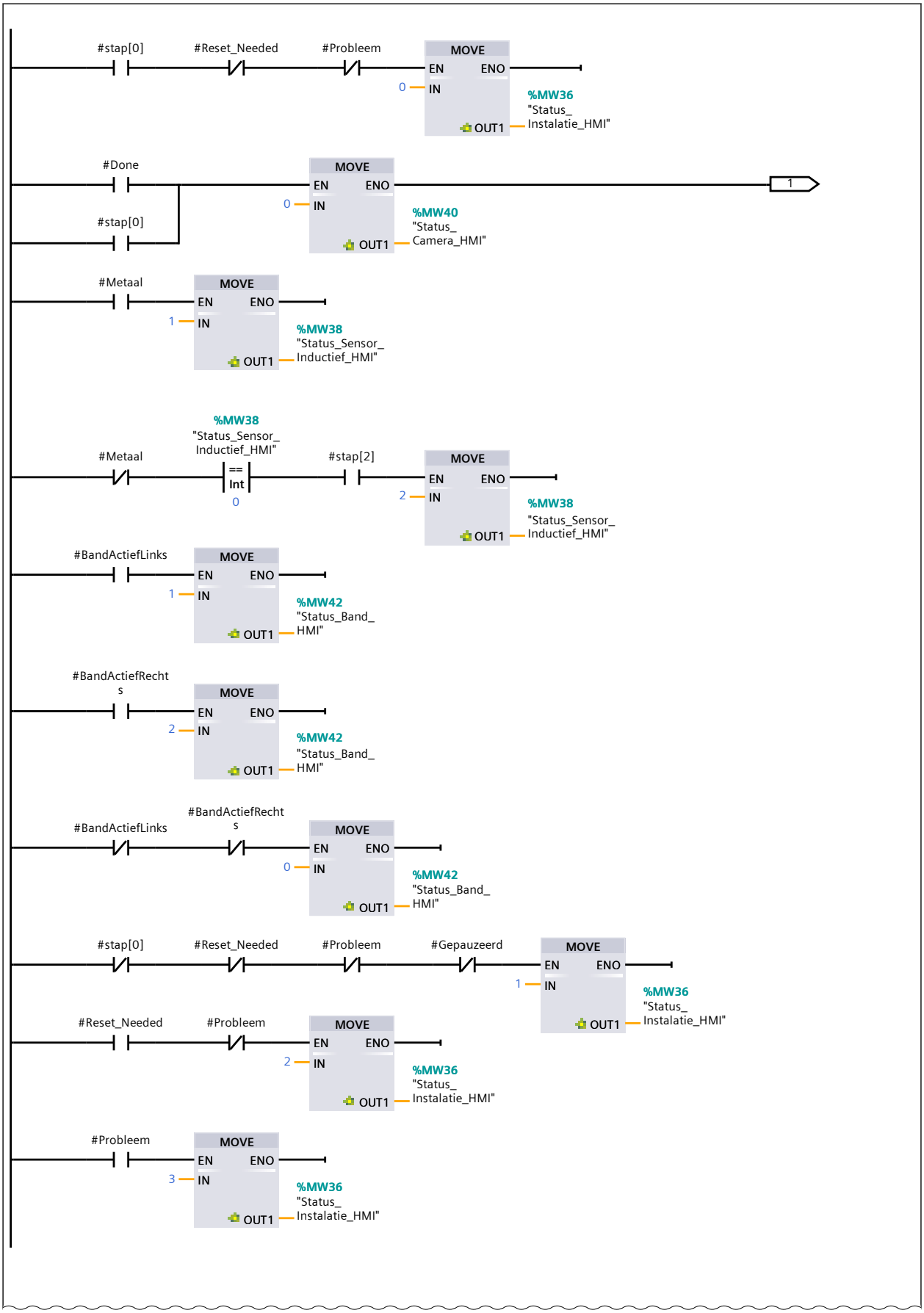
Network 14: Uitgangen BrengNaar (2.1 / 2.1)

1.1 (Page11 - 12)



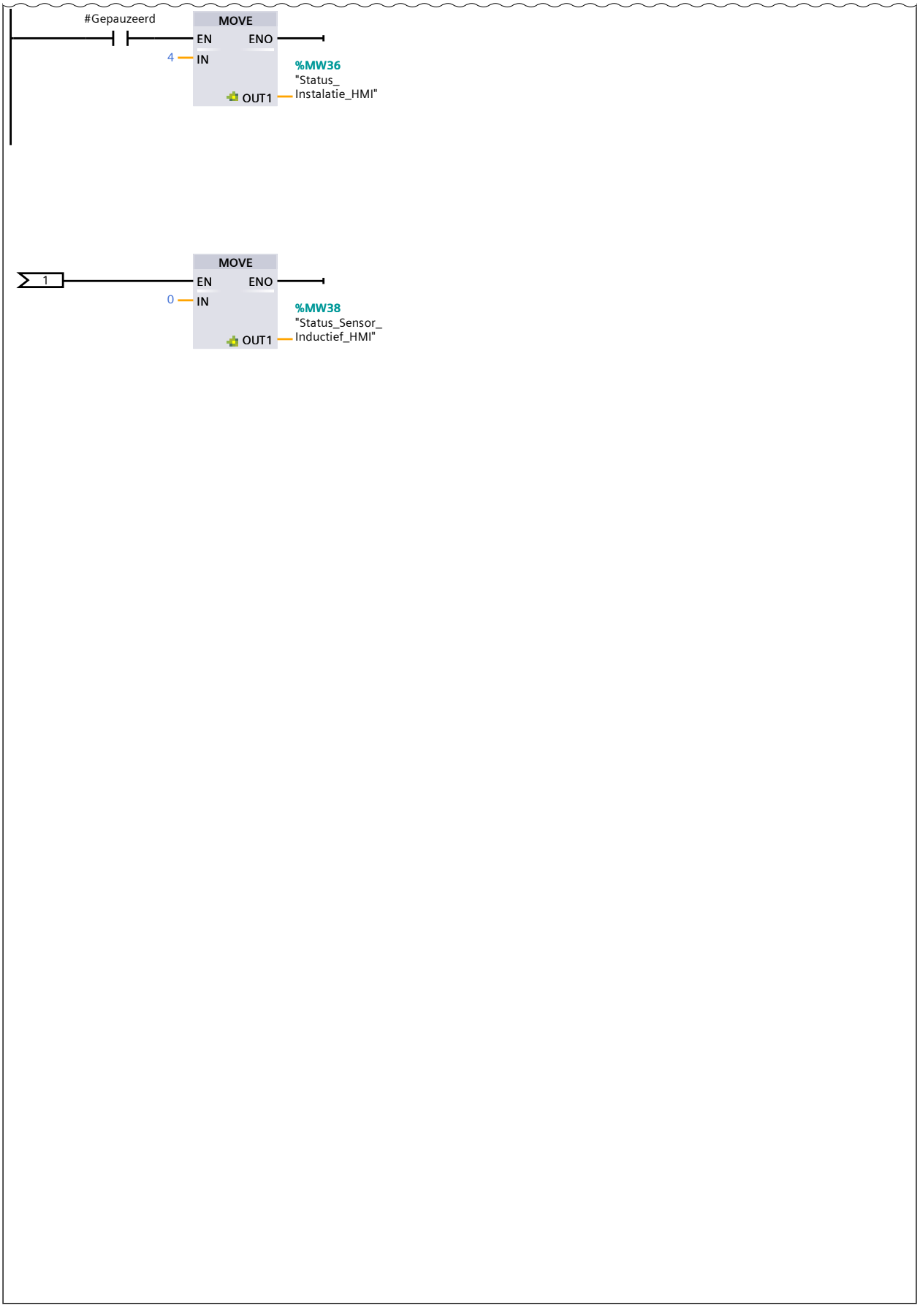
Network 15: statusen

Network 15: statusen (1.1 / 2.1)

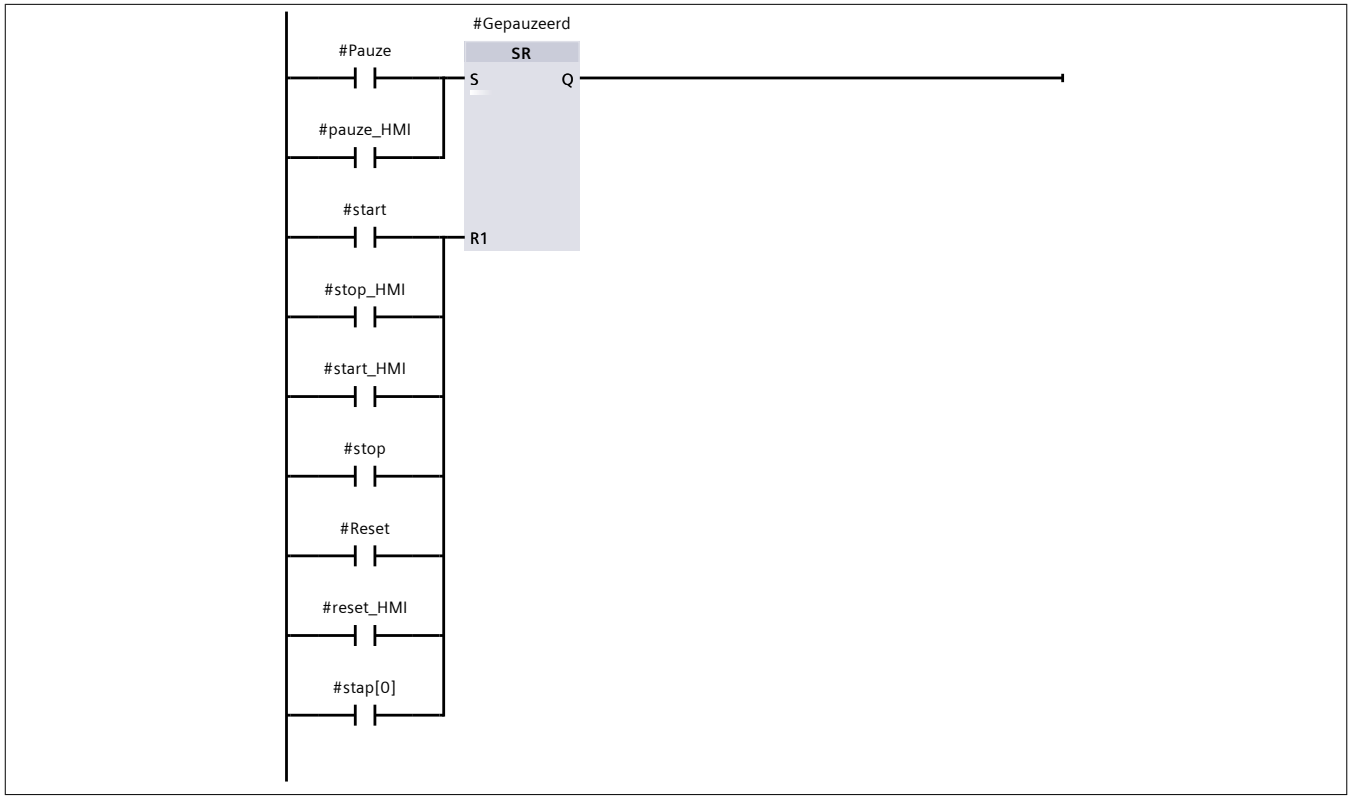


Network 15: statusen (2.1 / 2.1)

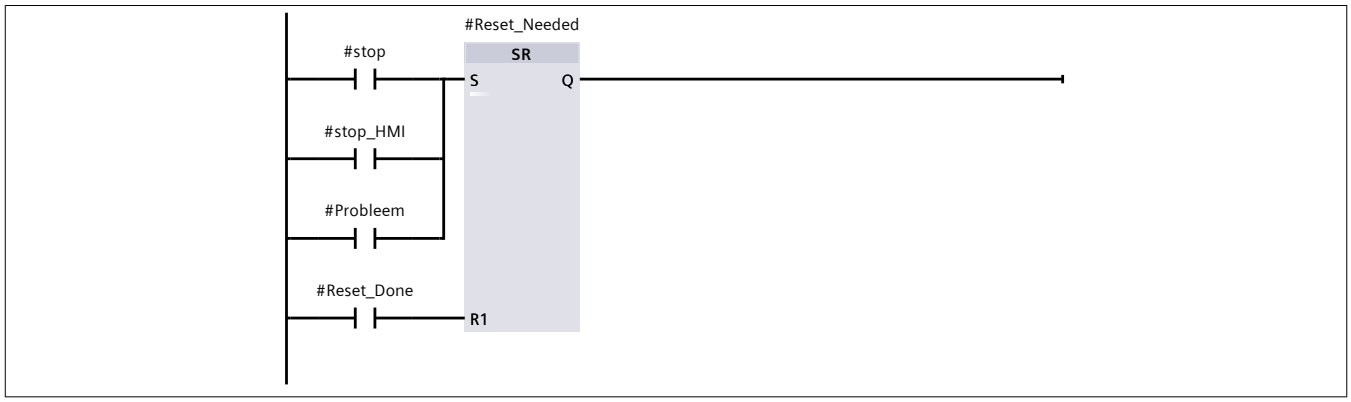
1.1 (Page11 - 15)



Network 16: Pauze

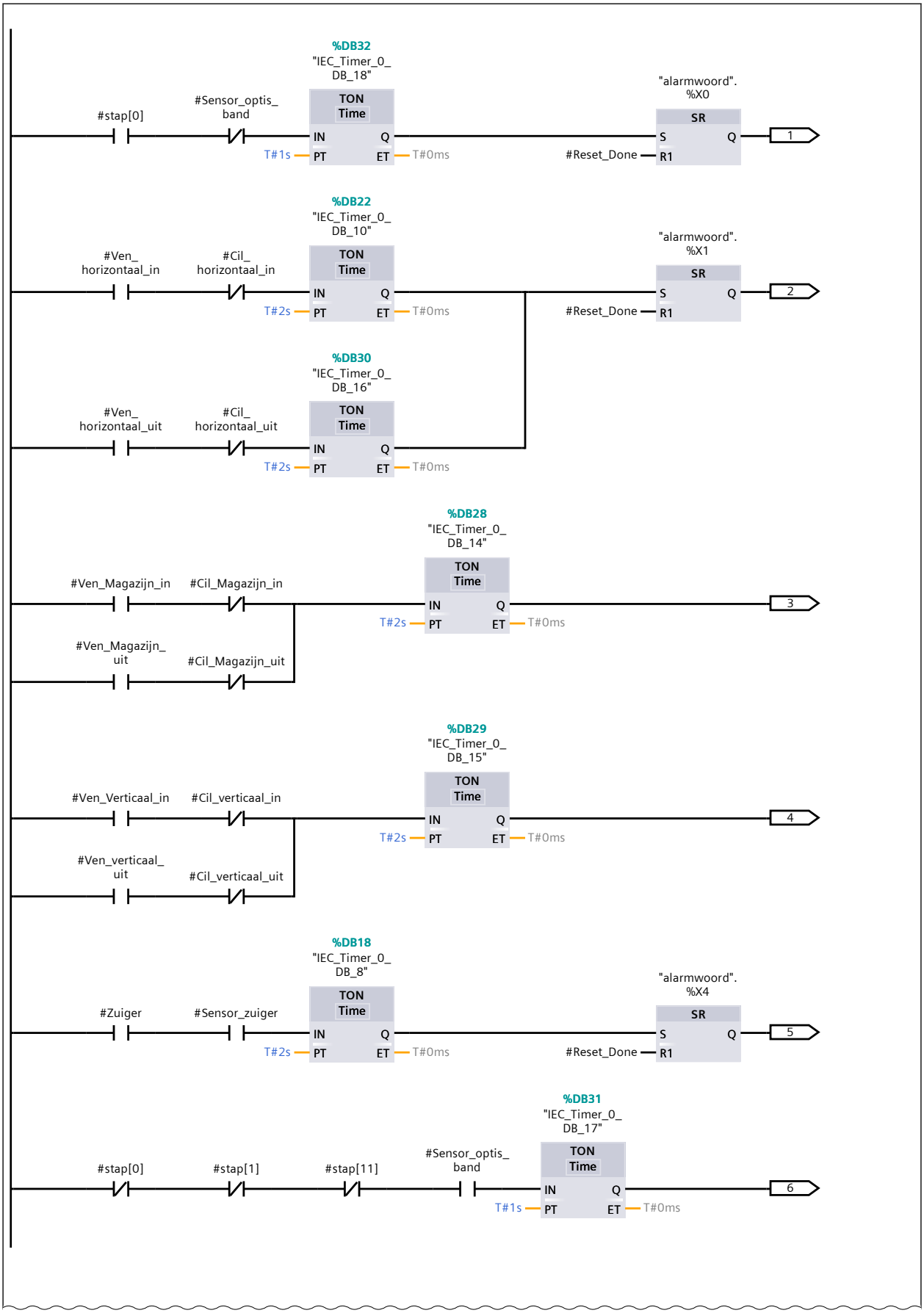


Network 17: Reset Needed Checker



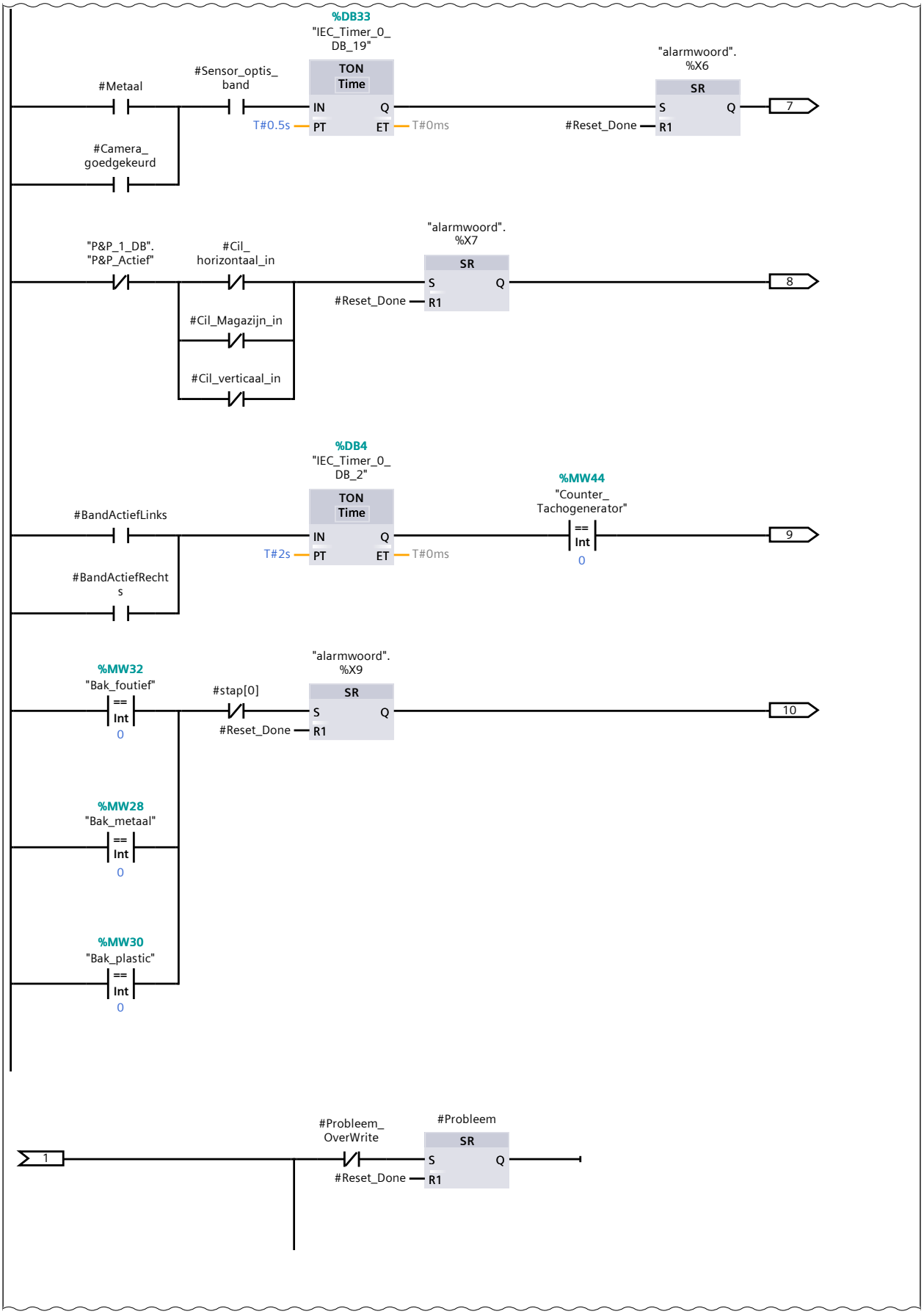
Network 18: Probleem Checker

Network 18: Probleem Checker (1.1 / 4.1)



Network 18: Probleem Checker (2.1 / 4.1)

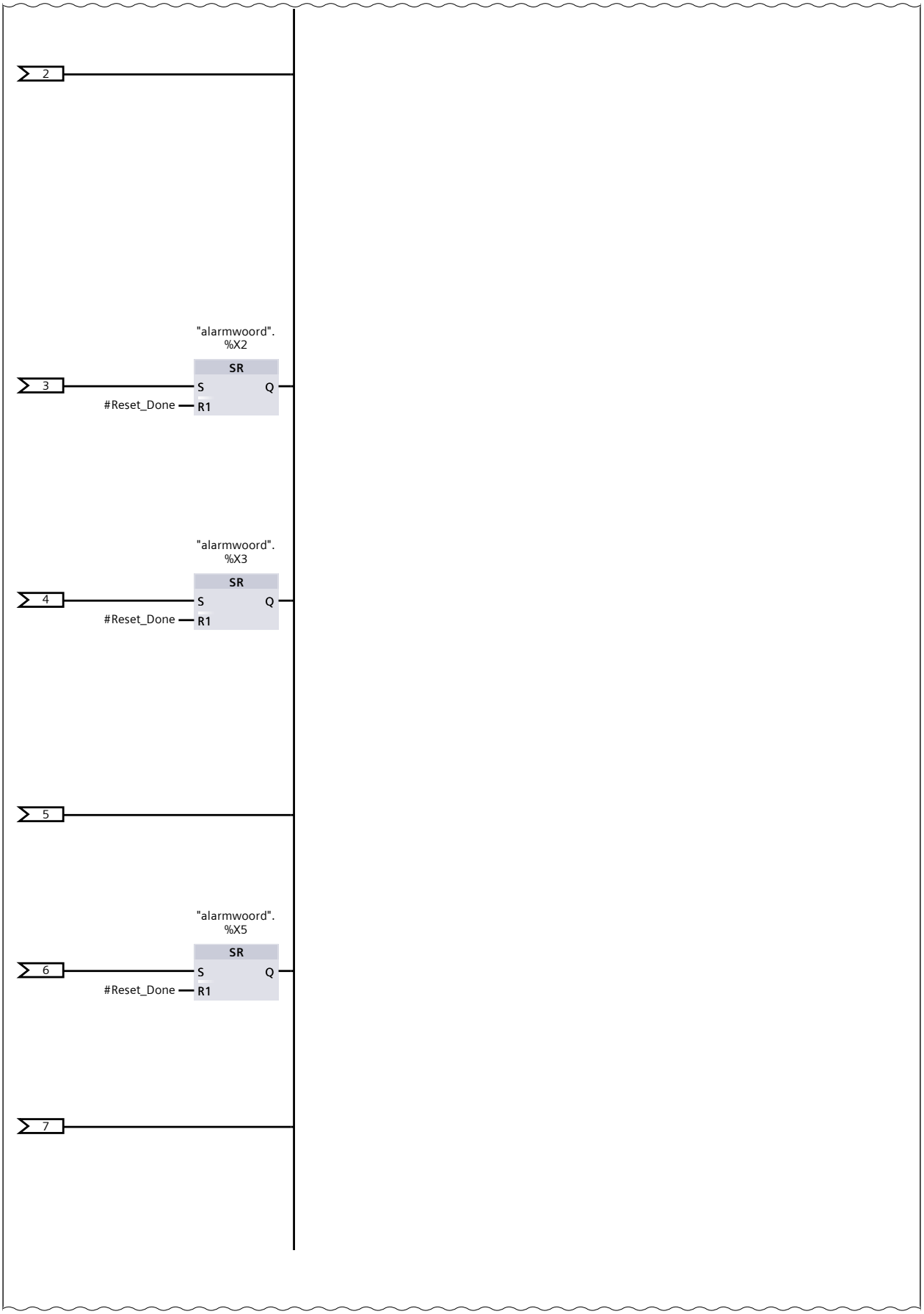
1.1 (Page11 - 18)



3.1 (Page11 - 20)

Network 18: Probleem Checker (3.1 / 4.1)

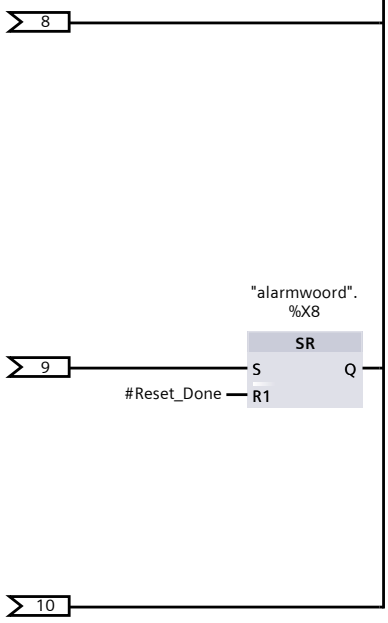
2.1 (Page11 - 19)



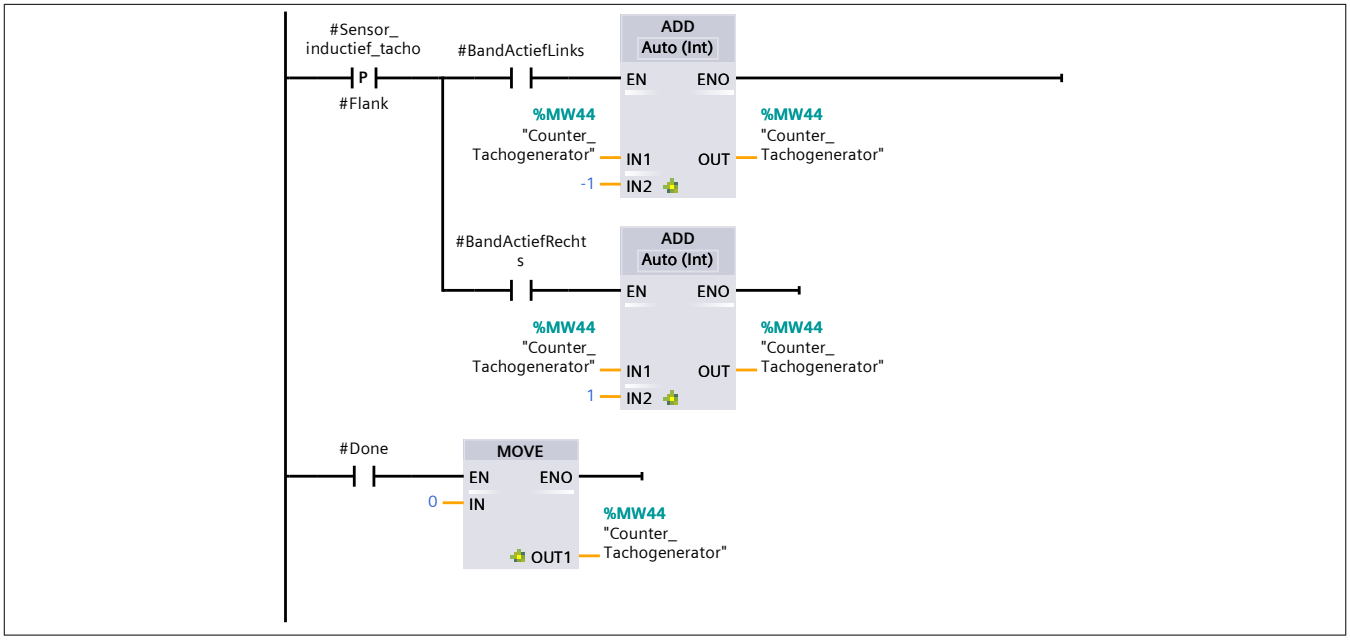
4.1 (Page11 - 21)

Network 18: Probleem Checker (4.1 / 4.1)

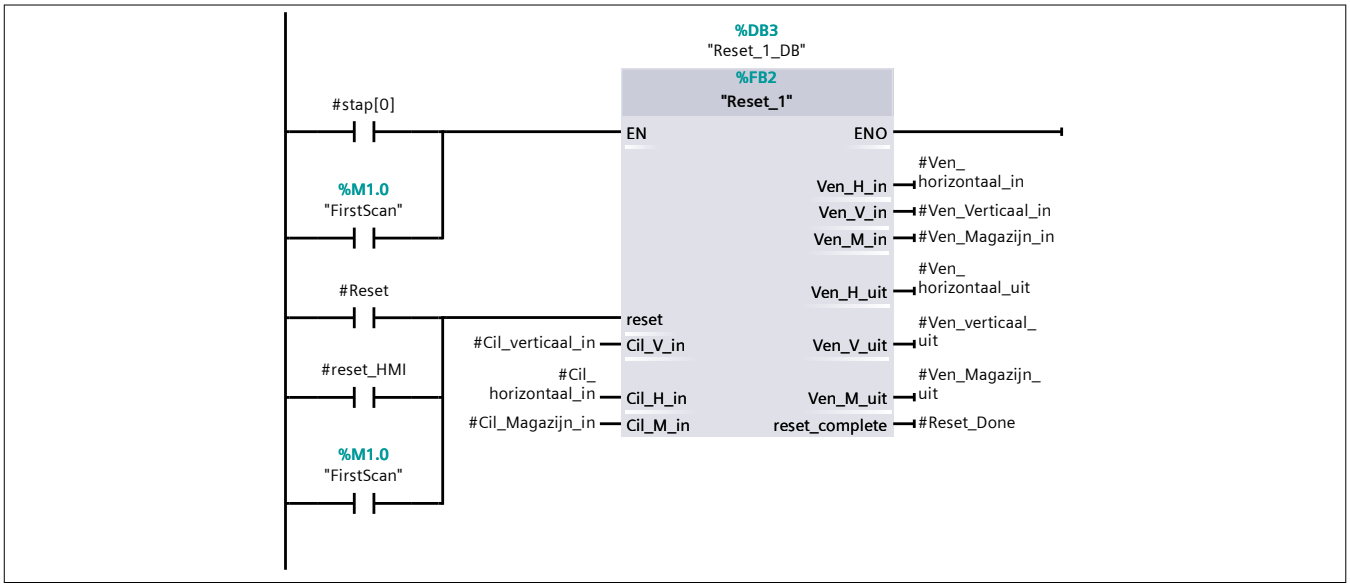
3.1 (Page11 - 20)



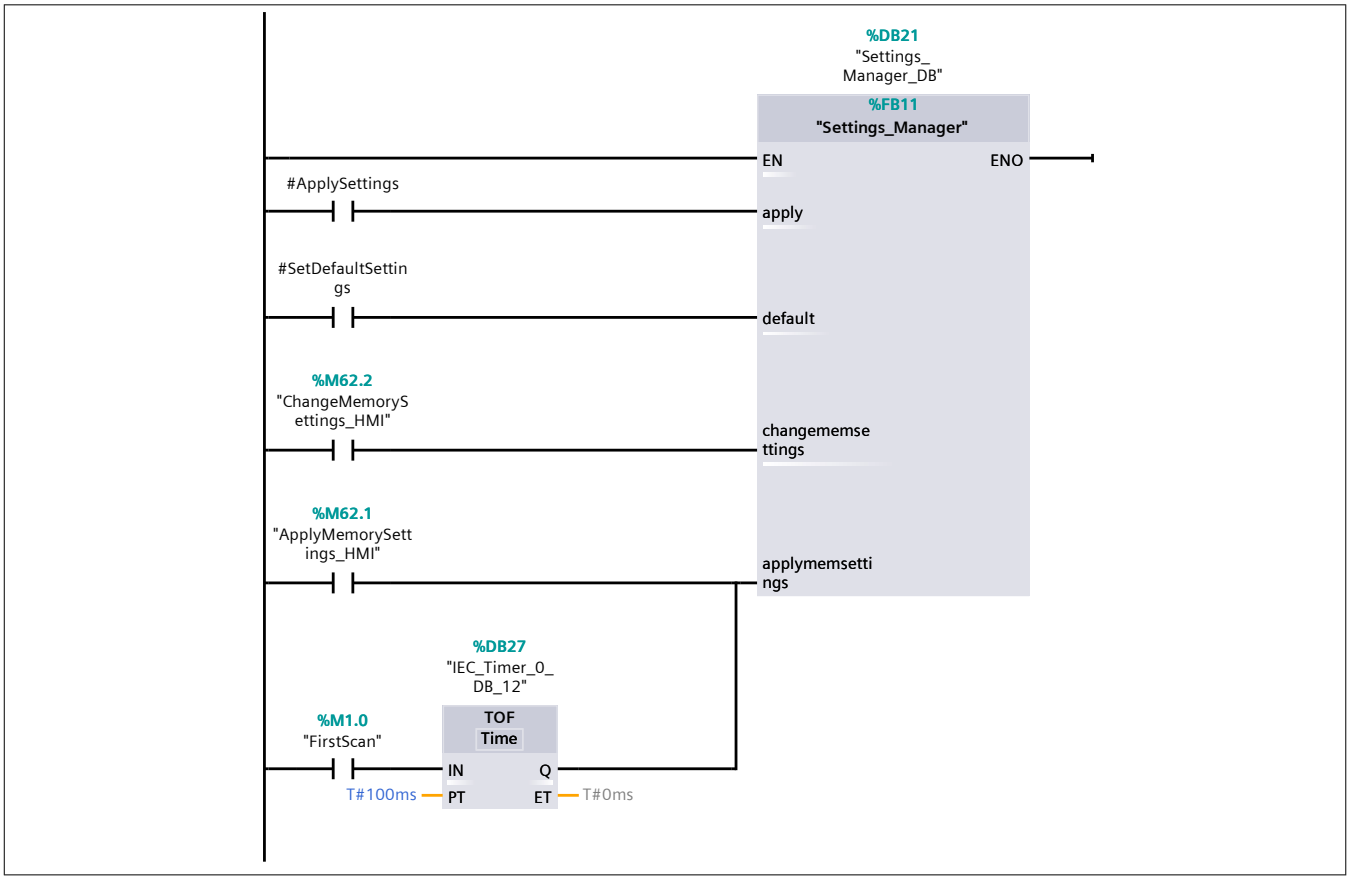
Network 19: TachoGenerator



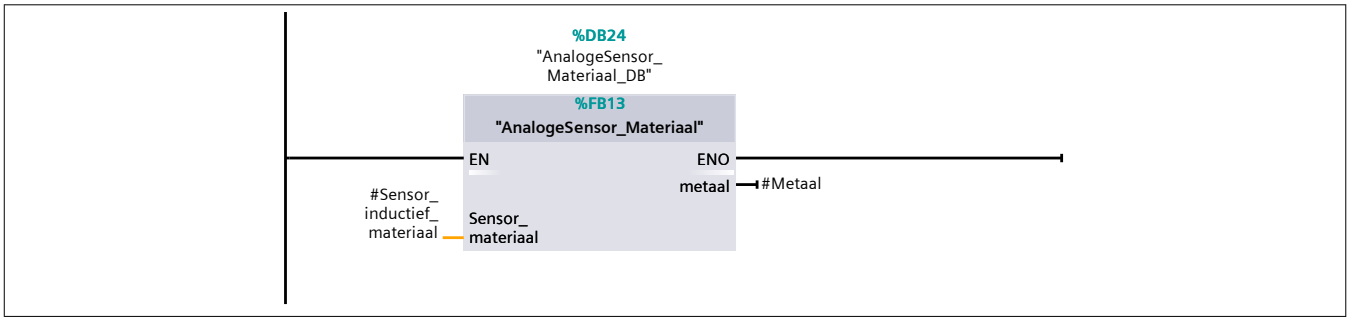
Network 20: Reset functie



Network 21: Settings manager



Network 22: Functie analogeSensor



Program blocks

Settings_Manager [FB11]

Settings_Manager Properties					
General					
Name	Settings_Manager	**Number**	11	**Type**	FB
Language	SCL	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
apply	Bool	false	Non-retain	True	True	True	False		
default	Bool	false	Non-retain	True	True	True	False		
changememsettings	Bool	false	Non-retain	True	True	True	False		
applymemsettings	Bool	false	Non-retain	True	True	True	False		
Output									
InOut									
▼ Static									
delay_zuiger_hmi	Time	T#0ms	Non-retain	True	True	True	False		
delay_venHin_hmi	Time	T#0ms	Non-retain	True	True	True	False		
delay_camera_hmi	Time	T#0ms	Non-retain	True	True	True	False		
CantApplySettings	Bool	false	Non-retain	True	True	True	False		
SettingsApplied	Bool	false	Non-retain	True	True	True	False		
i	Int	0	Non-retain	True	True	True	False		
Temp									
▼ Constant									
Default_Werkingsoptie	Int	1							
Default_BakMetaal	Int	1							
Default_BakPlastic	Int	2							
Default_BakFoutief	Int	3							
Default_DelayZuiger	Time	t#1s							

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Default_DelayVenV_in	Time	t#2s							
Default_DelayCamera	Time	T#1s							
timePopupMessage	Int	1000							
Default_Maxwaardemetaal	Int	24000							
Default_snelheid	Int	1							
Default_probleemOverwrite	Bool	false							

```
0001 IF #apply = TRUE THEN
0002   IF "master_DB".stap[0] = TRUE THEN
0003     "Bak_foutief" := "Bak_foutief_HMI";
0004     "Bak_metaal" := "Bak_metaal_HMI";
0005     "Bak_plastic" := "Bak_plastic_HMI";
0006     "BrengNaar_2_DB".Delay_camera := #delay_camera_hmi;
0007     "P&P_1_DB".Delay_VenVerticaal_in := #delay_venHin_hmi;
0008     "P&P_1_DB".Delay_zuiger := #delay_zuiger_hmi;
0009     "Controleer_Metaal" := "Controleer_Metaal_HMI";
0010     "Controleer_Plastic" := "Controleer_Plastic_HMI";
0011     "Werkings_Optie" := "Werkings_Optie_HMI";
0012     "AnalogeSensor_Materiaal_DB".maxwaarde_metaal := "MaxWaardeMetaal_HMI";
0013     "Aansturing motor_DB".snelheid := "SnelheidMotor_HMI";
0014     "master_DB".Probleem_OverWrite := "probleemoverwrite_HMI";
0015     #SettingsApplied := TRUE;
0016   ELSE
0017     #CantApplySettings := TRUE;
0018   END_IF;
0019 END_IF;
0020
0021 IF #applymemsettings = TRUE THEN
0022   IF "master_DB".stap[0] = TRUE THEN
0023     "Bak_foutief" := "SavedSettings"."bak foutief" ;
0024     "Bak_metaal" := "SavedSettings"."bak metaal";
0025     "Bak_plastic" := "SavedSettings"."bak plastic";
0026     "P&P_1_DB".Delay_VenVerticaal_in :=  "SavedSettings"."min tijd cil h in";
0027     "Controleer_Metaal" := "SavedSettings"."controleer metaal";
0028     "Controleer_Plastic" := "SavedSettings"."controleer plastic";
0029     "Werkings_Optie" :=  "SavedSettings".werkingsoptie;
0030     "AnalogeSensor_Materiaal_DB".maxwaarde_metaal :=  "SavedSettings"."trig-
     gerwaarde metaal" ;
0031     "master_DB".Probleem_OverWrite := "SavedSettings"."probleem overwrite";
0032
0033     "Bak_foutief_HMI" := "SavedSettings"."bak foutief";
0034     "Bak_metaal_HMI" := "SavedSettings"."bak metaal";
0035     "Bak_plastic_HMI" := "SavedSettings"."bak plastic";
0036     #delay_venHin_hmi :="SavedSettings"."min tijd cil h in";
0037     "Controleer_Metaal_HMI" := "SavedSettings"."controleer metaal";
0038     "Controleer_Plastic_HMI" := "SavedSettings"."controleer plastic";
```

```
0039      "Werkings_Optie_HMI" := "SavedSettings".werkingsoptie;
0040      "MaxWaardeMetaal_HMI" := "SavedSettings"."triggerwaarde metaal";
0041      "probleemoverwrite_HMI" :="SavedSettings"."probleem overwrite";
0042      #SettingsApplied := TRUE;
0043    ELSE
0044      #CantApplySettings := TRUE;
0045    END_IF;
0046  END_IF;
0047
0048  IF #default = TRUE THEN
0049    "Bak_foutief_HMI" := #Default_BakFoutief;
0050    "Bak_foutief" := #Default_BakFoutief;
0051    "Bak_metaal_HMI" := #Default_BakMetaal;
0052    "Bak_metaal" := #Default_BakMetaal;
0053    "Bak_plastic_HMI" := #Default_BakPlastic;
0054    "Bak_plastic" := #Default_BakPlastic;
0055    #delay_camera_hmi := #Default_DelayCamera;
0056    "BrengNaar_2_DB".Delay_camera := #Default_DelayCamera;
0057    #delay_venHin_hmi := #Default_DelayVenV_in;
0058    "P&P_1_DB".Delay_VenVerticaal_in := #Default_DelayVenV_in;
0059    #delay_zuiger_hmi := #Default_DelayZuiger;
0060    "P&P_1_DB".Delay_zuiger := #Default_DelayZuiger;
0061    "Controleer_Metaal_HMI" := TRUE;
0062    "Controleer_Metaal" := TRUE;
0063    "Controleer_Plastic_HMI" := TRUE;
0064    "Controleer_Plastic" := TRUE;
0065    "Werkings_Optie_HMI" := #Default_Werkingsoptie;
0066    "Werkings_Optie" := #Default_Werkingsoptie;
0067    "MaxWaardeMetaal_HMI" := #Default_Maxwaardemetaal;
0068    "AnalogeSensor_Materiaal_DB".maxwaarde_metaal := #Default_Maxwaardemetaal;
0069    "Aansturing motor_DB".snelheid := #Default_snelheid;
0070    "master_DB".Probleem_OverWrite := #Default_probleemOverwrite;
0071    "probleemoverwrite_HMI" := FALSE;
0072    "master_DB".Probleem_OverWrite := FALSE;
0073    #SettingsApplied := TRUE;
0074  END_IF;
0075
0076  IF #changememsettings = TRUE THEN
0077    "SavedSettings"."bak foutief" := "Bak_foutief_HMI";
0078    "SavedSettings"."bak metaal" := "Bak_metaal_HMI";
0079    "SavedSettings"."bak plastic" := "Bak_plastic_HMI";
0080    "SavedSettings"."min tijd cil h in" := #delay_venHin_hmi;
0081    "SavedSettings"."controleer metaal" := "Controleer_Metaal_HMI";
0082    "SavedSettings"."controleer plastic" := "Controleer_Plastic_HMI";
0083    "SavedSettings".werkingsoptie := "Werkings_Optie_HMI";
0084    "SavedSettings"."triggerwaarde metaal" := "MaxWaardeMetaal_HMI";
0085    "SavedSettings"."probleem overwrite" := "probleemoverwrite_HMI";
0086    "MemorySettingsUpdated" := TRUE;
0087  END_IF;
0088
0089    IF #SettingsApplied = TRUE OR #CantApplySettings = TRUE OR "MemorySetting-
      sUpdated" = TRUE THEN
0090    #i := #i + 1;
0091  END_IF;
0092
0093  IF #i = #timePopupMessage THEN
0094     #i := 0;
0095    #SettingsApplied := FALSE;
0096    #CantApplySettings := FALSE;
```

```
0097    "MemorySettingsUpdated" := FALSE;
0098 END_IF;
0099
0100
0101
0102
0103
0104
```

Symbol	Address	Type	Comment
"Aansturing motor_DB".snelheid		Int	
"AnalogeSensor_Materiaal_DB".maxwaarde_metaal		Int	
"Bak_foutief"	%MW32	Int	
"Bak_foutief_HMI"	%MW52	Int	
"Bak_metaal"	%MW28	Int	
"Bak_metaal_HMI"	%MW48	Int	
"Bak_plastic"	%MW30	Int	
"Bak_plastic_HMI"	%MW50	Int	
"BrengNaar_2_DB".Delay_camera		Time	
"Controleer_Metaal"	%M0.0	Bool	
"Controleer_Metaal_HMI"	%M0.2	Bool	
"Controleer_Plastic"	%M0.1	Bool	
"Controleer_Plastic_HMI"	%M0.3	Bool	
"master_DB".Probleem_OverWrite		Bool	
"master_DB".stap[0]		Bool	
"MaxWaardeMetaal_HMI"	%MW56	Int	
"MemorySettingsUpdated"	%M62.3	Bool	
"P&P_1_DB".Delay_VenVerticaal_in		Time	
"P&P_1_DB".Delay_zuiger		Time	
"probleemoverwrite_HMI"	%M62.0	Bool	
"SavedSettings"."bak foutief"		Int	
"SavedSettings"."bak metaal"		Int	
"SavedSettings"."bak plastic"		Int	
"SavedSettings"."controleer metaal"		Bool	
"SavedSettings"."controleer plastic"		Bool	
"SavedSettings"."min tijd cil h in"		Time	
"SavedSettings"."probleem overwrite"		Bool	
"SavedSettings"."triggerwaarde metaal"		Int	
"SavedSettings".werkingsoptie		Int	
"SnelheidMotor_HMI"	%MW58	Int	
"Werkings_Optie"	%MW46	Int	

Symbol	Address	Type	Comment
"Werkings_Optie_HMI"	%MW54	Int	
#apply		Bool	
#applymemsettings		Bool	
#CantApplySettings		Bool	
#changememsettings		Bool	
#default		Bool	
#Default_BakFoutief	3	Int	
#Default_BakMetaal	1	Int	
#Default_BakPlastic	2	Int	
#Default_DelayCamera	T#1s	Time	
#Default_DelayVenV_in	t#2s	Time	
#Default_DelayZuiger	t#1s	Time	
#Default_Maxwaarde-metaal	24000	Int	
#Default_probleemOver-write	false	Bool	
#Default_snelheid	1	Int	
#Default_Werkingsoptie	1	Int	
#delay_camera_hmi		Time	
#delay_venHin_hmi		Time	
#delay_zuiger_hmi		Time	
#i		Int	
#SettingsApplied		Bool	
#timePopupMessage	1000	Int	

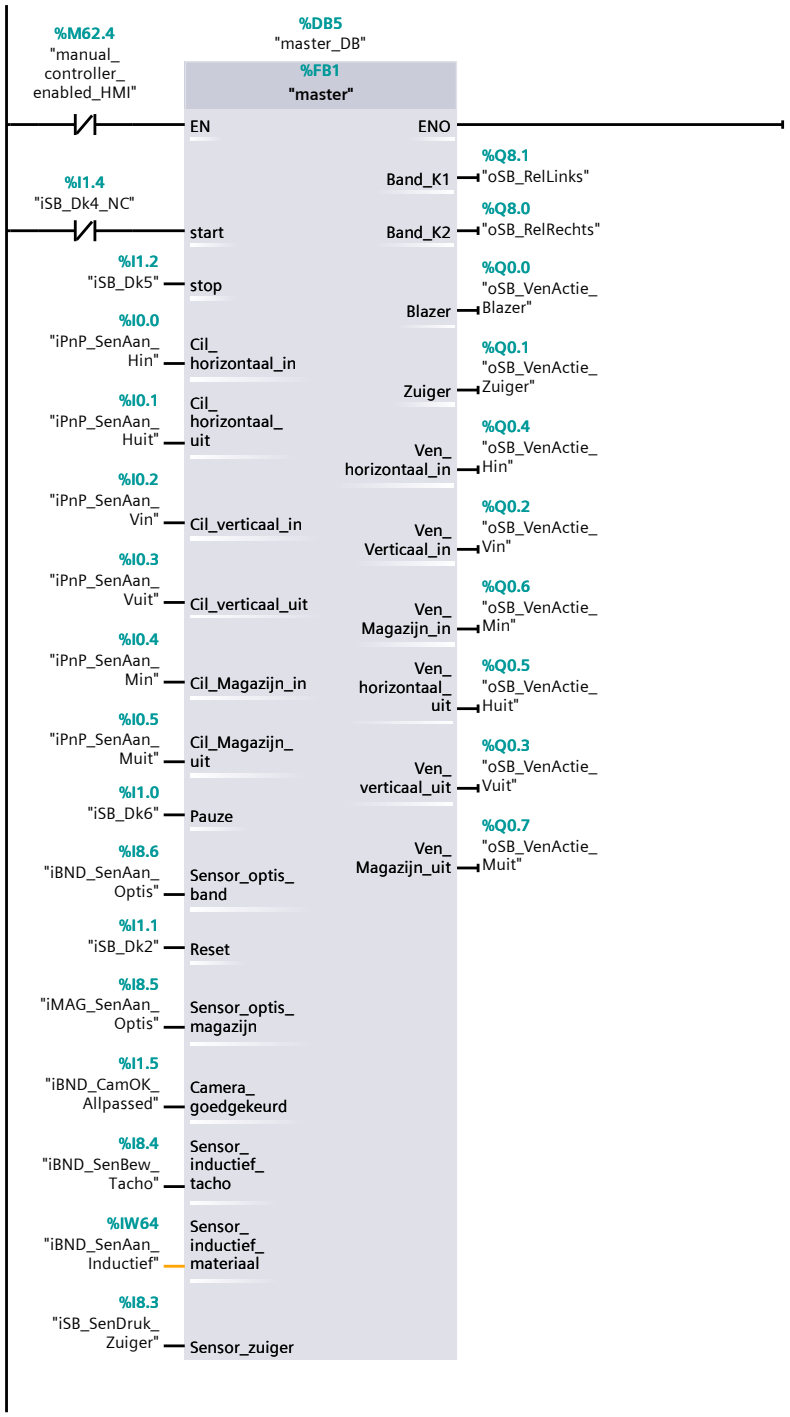
Program blocks

Main [OB1]

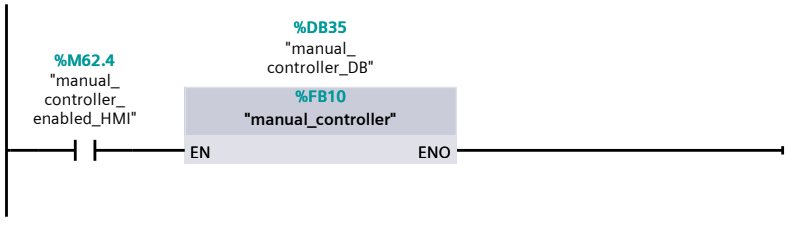
Main Properties					
General					
Name	Main	**Number**	1	**Type**	OB
Language	LAD	**Numbering**	Automatic		
Information					
Title	"Main Program Sweep (Cycle)"	**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Comment
Temp			
Constant			

Network 1:


%M62.4
"manual_
controller_
enabled_HMI"
%DB5
"master_DB"
%FB1
"master"
EN
ENO
%I1.4
"iSB_Dk4_NC"
start
%I1.2
"iSB_Dk5"
stop
%I0.0
"iPnP_SenAan_
Hin"
Cil_
horizontaal_in
%I0.1
"iPnP_SenAan_
Huit"
Cil_
horizontaal_
uit
%I0.2
"iPnP_SenAan_
Vin"
Cil_verticaal_in
%I0.3
"iPnP_SenAan_
Vuit"
Cil_verticaal_uit
%I0.4
"iPnP_SenAan_
Min"
Cil_Magazijn_in
%I0.5
"iPnP_SenAan_
Muit"
Cil_Magazijn_
uit
%I1.0
"iSB_Dk6"
Pauze
%I8.6
"iBND_SenAan_
Optis"
Sensor_optis_
band
%I1.1
"iSB_Dk2"
Reset
%I8.5
"iMAG_SenAan_
Optis"
Sensor_optis_
magazijn
%I1.5
"iBND_CamOK_
Allpassed"
Camera_
goedgekeurd
%I8.4
"iBND_SenBew_
Tacho"
Sensor_
inductief_
tacho
%IW64
"iBND_SenAan_
Inductief"
Sensor_
inductief_
materiaal
%I8.3
"iSB_SenDruk_
Zuiger"
Sensor_zuiger
Band_K1
%Q8.1
"oSB_RelLinks"
Band_K2
%Q8.0
"oSB_RelRechts"
Blazer
%Q0.0
"oSB_VenActie_
Blazer"
Zuiger
%Q0.1
"oSB_VenActie_
Zuiger"
Ven_
horizontaal_in
%Q0.4
"oSB_VenActie_
Hin"
Ven_
Verticaal_in
%Q0.2
"oSB_VenActie_
Vin"
Ven_
Magazijn_in
%Q0.6
"oSB_VenActie_
Min"
Ven_
horizontaal_
uit
%Q0.5
"oSB_VenActie_
Huit"
Ven_
verticaal_uit
%Q0.3
"oSB_VenActie_
Vuit"
Ven_
Magazijn_uit
%Q0.7
"oSB_VenActie_
Muit"

Network 2:


%M62.4
"manual_
controller_
enabled_HMI"
%DB35
"manual_
controller_DB"
%FB10
"manual_controller"
EN
ENO

Program blocks

Reset_1_DB [DB3]

Reset_1_DB Properties					
General					
Name	Reset_1_DB	**Number**	3	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
reset	Bool	false	False	False	False	False	False		
Cil_V_in	Bool	false	False	False	False	False	False		
Cil_H_in	Bool	false	False	False	False	False	False		
Cil_M_in	Bool	false	False	False	False	False	False		
Output									
Ven_H_in	Bool	false	False	False	False	False	False		
Ven_V_in	Bool	false	False	False	False	False	False		
Ven_M_in	Bool	false	False	False	False	False	False		
Ven_H_uit	Bool	false	False	False	False	False	False		
Ven_V_uit	Bool	false	False	False	False	False	False		
Ven_M_uit	Bool	false	False	False	False	False	False		
reset_complete	Bool	false	False	False	False	False	False		
InOut									
Static									
stap	Array[0..2] of Bool		False	True	True	True	False		
stap[0]	Bool	false	False	True	True	True	False		
stap[1]	Bool	false	False	True	True	True	False		
stap[2]	Bool	false	False	True	True	True	False		

Program blocks

BN_Bak1_DB [DB10]

BN_Bak1_DB Properties					
General					
Name	BN_Bak1_DB	**Number**	10	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
start	Bool	false	False	True	True	True	False		
stop	Bool	false	False	True	True	True	False		
senOptis	Bool	false	False	True	True	True	False		
Output									
InOut									
▼ Static									
▼ stap	Array[0..2] of Bool		False	True	True	True	False		
stap[0]	Bool	false	False	True	True	True	False		
stap[1]	Bool	false	False	True	True	True	False		
stap[2]	Bool	false	False	True	True	True	False		
K1	Bool	false	False	True	True	True	False		
K2	Bool	false	False	True	True	True	False		
BandActiefLinks	Bool	false	False	True	True	True	False		
p	Bool	false	False	True	True	True	False		
Done	Bool	false	False	True	True	True	False		

Program blocks

BN_Bak3_DB [DB12]

BN_Bak3_DB Properties					
General					
Name	BN_Bak3_DB	**Number**	12	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
start	Bool	false	False	True	True	True	False		
stop	Bool	false	False	True	True	True	False		
senOptis	Bool	false	False	True	True	True	False		
Output									
InOut									
Static									
stap	Array[0..2] of Bool		False	True	True	True	False		
stap[0]	Bool	false	False	True	True	True	False		
stap[1]	Bool	false	False	True	True	True	False		
stap[2]	Bool	false	False	True	True	True	False		
K1	Bool	false	False	True	True	True	False		
K2	Bool	false	False	True	True	True	False		
BandActiefRechts	Bool	false	False	True	True	True	False		
Done	Bool	false	False	True	True	True	False		
p	Bool	false	False	True	True	True	False		

Program blocks

BrengNaar_2_DB [DB14]

BrengNaar_2_DB Properties					
General					
Name	BrengNaar_2_DB	**Number**	14	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Camera_Goedgekeurd	Bool	false	False	False	False	False	False		
Sensor_Metaal	Bool	false	False	False	False	False	False		
done	Bool	false	False	True	True	True	False		
UnderCamera	Bool	false	False	True	True	True	False		
ready	Bool	false	False	True	True	True	False		
aan	Bool	false	False	True	True	True	False		
reset	Bool	false	False	True	True	True	False		
Output									
InOut									
Static									
Bak	Array[0..3] of Bool		False	True	True	True	False		
Bak[0]	Bool	false	False	True	True	True	False		
Bak[1]	Bool	false	False	True	True	True	False		
Bak[2]	Bool	false	False	True	True	True	False		
Bak[3]	Bool	false	False	True	True	True	False		
timerON	Bool	false	False	True	True	True	False		
TimerDone	Bool	false	False	True	True	True	False		
i	Int	0	False	True	True	True	False		
Delay_camera	Time	T#0ms	False	True	True	True	False		

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
et	Time	T#0ms	False	True	True	True	False		

Program blocks

motortest_DB [DB23]

motortest_DB Properties					
General					
Name	motortest_DB	**Number**	23	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
links	Bool	false	False	True	True	True	False		
rechts	Bool	false	False	True	True	True	False		
Output									
k1	Bool	false	False	True	True	True	False		
k2	Bool	false	False	True	True	True	False		
InOut									
Static									

Program blocks

AnalogeSensor_Materiaal_DB [DB24]

AnalogeSensor_Materiaal_DB Properties					
General					
Name	AnalogeSensor_Materiaal_DB	**Number**	24	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
Sensor_materiaal	Int	0	False	True	True	True	False		
▼ Output									
metaal	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
maxwaarde_metaal	Int	15000	False	True	True	True	False		

Program blocks

P&P_1_DB [DB6]

P&P_1_DB Properties					
General					
Name	P&P_1_DB	**Number**	6	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
Start_Knop_manual	Bool	false	False	False	False	False	False		
Start_P&P	Bool	false	False	False	False	False	False		
Pauze	Bool	false	False	False	False	False	False		
Stop	Bool	false	False	False	False	False	False		
Sen_Cil_Magazijn_in	Bool	false	False	False	False	False	False		
Sen_Cil_Magazijn_uit	Bool	false	False	False	False	False	False		
Sen_Cil_Verticaal_in	Bool	false	False	False	False	False	False		
Sen_Cil_Verticaal_uit	Bool	false	False	False	False	False	False		
Sen_Cil_Horizontaal_in	Bool	false	False	False	False	False	False		
Sen_Cil_Horizontaal_uit	Bool	false	False	False	False	False	False		
Manual	Bool	false	False	False	False	False	False		
Sensor_zuiger	Bool	false	False	True	True	True	False		
▼ Output									
Ven_Magazijn_in	Bool	false	False	False	False	False	False		
Ven_Magazijn_uit	Bool	false	False	False	False	False	False		
Ven_Verticaal_in	Bool	false	False	False	False	False	False		
Ven_Verticaal_uit	Bool	false	False	False	False	False	False		
Ven_Horizontaal_in	Bool	false	False	False	False	False	False		

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Ven_Horizontaal_uit	Bool	false	False	False	False	False	False		
Ven_Zuiger	Bool	false	False	False	False	False	False		
Deliverd	Bool	false	False	False	False	False	False		
InOut									
Static									
stap	Array[0..20] of Bool		False	False	False	False	False		
stap[0]	Bool	false	False	False	False	False	False		
stap[1]	Bool	false	False	False	False	False	False		
stap[2]	Bool	false	False	False	False	False	False		
stap[3]	Bool	false	False	False	False	False	False		
stap[4]	Bool	false	False	False	False	False	False		
stap[5]	Bool	false	False	False	False	False	False		
stap[6]	Bool	false	False	False	False	False	False		
stap[7]	Bool	false	False	False	False	False	False		
stap[8]	Bool	false	False	False	False	False	False		
stap[9]	Bool	false	False	False	False	False	False		
stap[10]	Bool	false	False	False	False	False	False		
stap[11]	Bool	false	False	False	False	False	False		
stap[12]	Bool	false	False	False	False	False	False		
stap[13]	Bool	false	False	False	False	False	False		
stap[14]	Bool	false	False	False	False	False	False		
stap[15]	Bool	false	False	False	False	False	False		
stap[16]	Bool	false	False	False	False	False	False		
stap[17]	Bool	false	False	False	False	False	False		
stap[18]	Bool	false	False	False	False	False	False		
stap[19]	Bool	false	False	False	False	False	False		

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
stap[20]	Bool	false	False	False	False	False	False		
p1	Bool	false	False	False	False	False	False		
p2	Bool	false	False	False	False	False	False		
P&P_Actief	Bool	false	False	True	True	True	False		
Delay_zuiger	Time	T#2S	False	True	True	True	False		
Delay_VenVerticaal_uit	Time	T#500ms	False	True	True	True	False		
Delay_VenVerticaal_in	Time	T#1s	False	True	True	True	False		
Probleem_Zuiger	Bool	false	False	True	True	True	False		

Program blocks

BN_Bak2_DB [DB11]

BN_Bak2_DB Properties					
General					
Name	BN_Bak2_DB	**Number**	11	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
start	Bool	false	False	True	True	True	False		
stop	Bool	false	False	True	True	True	False		
senOptis	Bool	false	False	True	True	True	False		
senOnderCamera	Bool	false	False	True	True	True	False		
Output									
InOut									
▼ Static									
▼ stap	Array[0..3] of Bool		False	True	True	True	False		
stap[0]	Bool	false	False	True	True	True	False		
stap[1]	Bool	false	False	True	True	True	False		
stap[2]	Bool	false	False	True	True	True	False		
stap[3]	Bool	false	False	True	True	True	False		
K1	Bool	false	False	True	True	True	False		
K2	Bool	false	False	True	True	True	False		
BandActiefRechts	Bool	false	False	True	True	True	False		
Done	Bool	false	False	True	True	True	False		
p	Bool	false	False	True	True	True	False		
Blazer	Bool	false	False	True	True	True	False		

Program blocks

BN_Camera_DB [DB13]

BN_Camera_DB Properties					
General					
Name	BN_Camera_DB	**Number**	13	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
start	Bool	false	False	True	True	True	False		
stop	Bool	false	False	True	True	True	False		
senOptis	Bool	false	False	True	True	True	False		
senOnderCamera	Bool	false	False	True	True	True	False		
Output									
InOut									
Static									
stap	Array[0..2] of Bool		False	True	True	True	False		
stap[0]	Bool	false	False	True	True	True	False		
stap[1]	Bool	false	False	True	True	True	False		
stap[2]	Bool	false	False	True	True	True	False		
K1	Bool	false	False	True	True	True	False		
K2	Bool	false	False	True	True	True	False		
BandActiefRechts	Bool	false	False	True	True	True	False		
Ready	Bool	false	False	True	True	True	False		

Program blocks

Settings_Manager_DB [DB21]

Settings_Manager_DB Properties					
General					
Name	Settings_Manager_DB	**Number**	21	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
apply	Bool	false	False	True	True	True	False		
default	Bool	false	False	True	True	True	False		
changememsettings	Bool	false	False	True	True	True	False		
applymemsettings	Bool	false	False	True	True	True	False		
Output									
InOut									
▼ Static									
delay_zuiger_hmi	Time	T#0ms	False	True	True	True	False		
delay_venHin_hmi	Time	T#0ms	False	True	True	True	False		
delay_camera_hmi	Time	T#0ms	False	True	True	True	False		
CantApplySettings	Bool	false	False	True	True	True	False		
SettingsApplied	Bool	false	False	True	True	True	False		
i	Int	0	False	True	True	True	False		

Program blocks

Aansturing motor_DB [DB9]

Aansturing motor_DB Properties					
General					
Name	Aansturing motor_DB	**Number**	9	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
band_rechts	Bool	false	False	True	True	True	False		
▼ Output									
PWM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
snelheid	Int	3	False	True	True	True	False		
counter	Int	0	False	True	True	True	False		

Program blocks

Aansturing motor_DB_1 [DB25]

Aansturing motor_DB_1 Properties					
General					
Name	Aansturing motor_DB_1	**Number**	25	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
band_rechts	Bool	false	False	True	True	True	False		
▼ Output									
PWM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
snelheid	Int	3	False	True	True	True	False		
counter	Int	0	False	True	True	True	False		

Program blocks

master_DB [DB5]

master_DB Properties					
General					
Name	master_DB	**Number**	5	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
start	Bool	false	False	True	True	True	False		
stop	Bool	false	False	True	True	True	False		
Cil_horizontaal_in	Bool	false	False	True	True	True	False		
Cil_horizontaal_uit	Bool	false	False	True	True	True	False		
Cil_verticaal_in	Bool	false	False	True	True	True	False		
Cil_verticaal_uit	Bool	false	False	True	True	True	False		
Cil_Magazijn_in	Bool	false	False	True	True	True	False		
Cil_Magazijn_uit	Bool	false	False	True	True	True	False		
Pauze	Bool	false	False	True	True	True	False		
Sensor_optis_band	Bool	false	False	True	True	True	False		
Reset	Bool	false	False	True	True	True	False		
Sensor_optis_magazijn	Bool	false	False	True	True	True	False		
Camera_goedgekeurd	Bool	false	False	True	True	True	False		
Sensor_inductief_tacho	Bool	false	False	True	True	True	False		
Sensor_inductief_materiaal	Int	0	False	True	True	True	False		
Sensor_zuiger	Bool	false	False	True	True	True	False		
Output									
Band_K1	Bool	false	False	True	True	True	False		

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Band_K2	Bool	false	False	True	True	True	False		
Blazer	Bool	false	False	True	True	True	False		
Zuiger	Bool	false	False	True	True	True	False		
Ven_horizontaal_in	Bool	false	False	True	True	True	False		
Ven_Verticaal_in	Bool	false	False	True	True	True	False		
Ven_Magazijn_in	Bool	false	False	True	True	True	False		
Ven_horizontaal_uit	Bool	false	False	True	True	True	False		
Ven_verticaal_uit	Bool	false	False	True	True	True	False		
Ven_Magazijn_uit	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ stap	Array[0..13] of Bool		False	False	False	False	False		
stap[0]	Bool	false	False	False	False	False	False		
stap[1]	Bool	false	False	False	False	False	False		
stap[2]	Bool	false	False	False	False	False	False		
stap[3]	Bool	false	False	False	False	False	False		
stap[4]	Bool	false	False	False	False	False	False		
stap[5]	Bool	false	False	False	False	False	False		
stap[6]	Bool	false	False	False	False	False	False		
stap[7]	Bool	false	False	False	False	False	False		
stap[8]	Bool	false	False	False	False	False	False		
stap[9]	Bool	false	False	False	False	False	False		
stap[10]	Bool	false	False	False	False	False	False		
stap[11]	Bool	false	False	False	False	False	False		
stap[12]	Bool	false	False	False	False	False	False		
stap[13]	Bool	false	False	False	False	False	False		

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Metaal	Bool	false	False	True	True	True	False		
Reset_Done	Bool	false	False	False	False	False	False		
Gepauzeerd	Bool	false	False	False	False	False	False		
Reset_Needed	Bool	false	False	False	False	False	False		
Ready	Bool	false	False	False	False	False	False		
BandActiefRechts	Bool	false	False	False	False	False	False		
BandActiefLinks	Bool	false	False	False	False	False	False		
Delivered	Bool	false	False	True	True	True	False		
Done	Bool	false	False	False	False	False	False		
Probleem_Over-Write	Bool	false	False	True	True	True	False		
Probleem	Bool	false	False	True	True	True	False		
start_HMI	Bool	false	False	True	True	True	False		
stop_HMI	Bool	false	False	True	True	True	False		
reset_HMI	Bool	false	False	True	True	True	False		
pauze_HMI	Bool	false	False	True	True	True	False		
Flank	Bool	false	False	True	True	True	False		
SetDefaultSettings	Bool	false	False	True	True	True	False		
ApplySettings	Bool	false	False	True	True	True	False		
▼ error	Array[0..10] of Bool		False	True	True	True	False		
error[0]	Bool	false	False	True	True	True	False		
error[1]	Bool	false	False	True	True	True	False		
error[2]	Bool	false	False	True	True	True	False		
error[3]	Bool	false	False	True	True	True	False		
error[4]	Bool	false	False	True	True	True	False		
error[5]	Bool	false	False	True	True	True	False		
error[6]	Bool	false	False	True	True	True	False		

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
error[7]	Bool	false	False	True	True	True	False		
error[8]	Bool	false	False	True	True	True	False		
error[9]	Bool	false	False	True	True	True	False		
error[10]	Bool	false	False	True	True	True	False		

Program blocks

SavedSettings [DB34]

SavedSettings Properties					
General					
Name	SavedSettings	**Number**	34	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Static									
werkingsoptie	Int	0	True	True	True	True	False		
bak metaal	Int	0	True	True	True	True	False		
bak plastic	Int	0	True	True	True	True	False		
bak foutief	Int	0	True	True	True	True	False		
min tijd cil h in	Time	T#0ms	True	True	True	True	False		
controleer metaal	Bool	false	True	True	True	True	False		
controleer plastic	Bool	false	True	True	True	True	False		
triggerwaarde metaal	Int	0	True	True	True	True	False		
probleem overwrite	Bool	false	True	True	True	True	False		

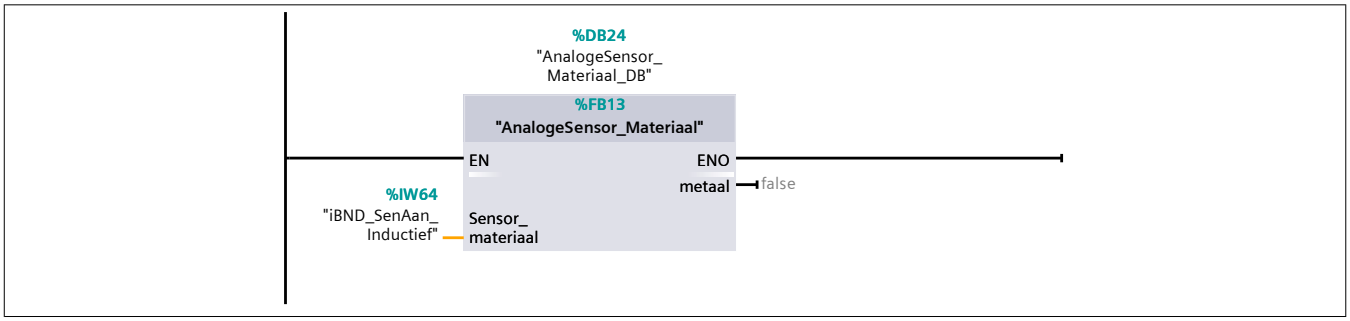
Program blocks

manual_controller [FB10]

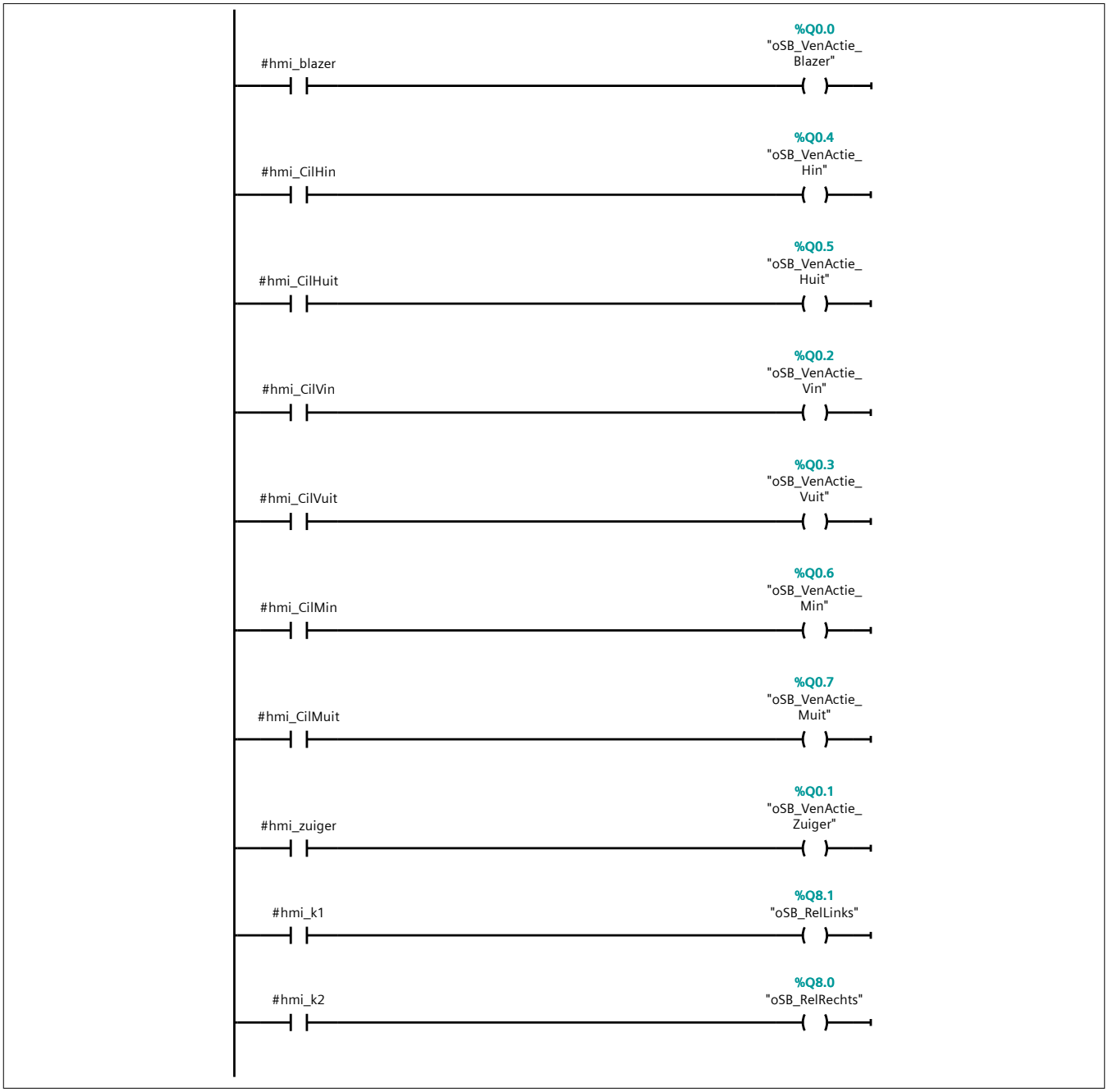
manual_controller Properties					
General					
Name	manual_controller	**Number**	10	**Type**	FB
Language	LAD	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Output									
InOut									
Static									
hmi_CilMin	Bool	false	Non-retain	True	True	True	False		
hmi_CilMuit	Bool	false	Non-retain	True	True	True	False		
hmi_CilVin	Bool	false	Non-retain	True	True	True	False		
hmi_CilVuit	Bool	false	Non-retain	True	True	True	False		
hmi_CilHin	Bool	false	Non-retain	True	True	True	False		
hmi_CilHuit	Bool	false	Non-retain	True	True	True	False		
hmi_blazer	Bool	false	Non-retain	True	True	True	False		
hmi_zuiger	Bool	false	Non-retain	True	True	True	False		
hmi_k1	Bool	false	Non-retain	True	True	True	False		
hmi_k2	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

Network 1:


%DB24
"AnalogeSensor_
Materiaal_DB"
%FB13
"AnalogeSensor_Materiaal"
EN
ENO
metaal
false
%IW64
"iBND_SenAan_
Inductief"
Sensor_
materiaal

Network 2:


#hmi_blazer
%Q0.0
"oSB_VenActie_
Blazer"
#hmi_CilHin
%Q0.4
"oSB_VenActie_
Hin"
#hmi_CilHuit
%Q0.5
"oSB_VenActie_
Huit"
#hmi_CilVin
%Q0.2
"oSB_VenActie_
Vin"
#hmi_CilVuit
%Q0.3
"oSB_VenActie_
Vuit"
#hmi_CilMin
%Q0.6
"oSB_VenActie_
Min"
#hmi_CilMuit
%Q0.7
"oSB_VenActie_
Muit"
#hmi_zuiger
%Q0.1
"oSB_VenActie_
Zuiger"
#hmi_k1
%Q8.1
"oSB_RelLinks"
#hmi_k2
%Q8.0
"oSB_RelRechts"

Program blocks

manual_controller_DB [DB35]

manual_controller_DB Properties					
General					
Name	manual_controller_DB	**Number**	35	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**		**Comment**	
Family		**Version**	0.1	**User-defined ID**	

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Output									
InOut									
▼ Static									
hmi_CilMin	Bool	false	False	True	True	True	False		
hmi_CilMuit	Bool	false	False	True	True	True	False		
hmi_CilVin	Bool	false	False	True	True	True	False		
hmi_CilVuit	Bool	false	False	True	True	True	False		
hmi_CilHin	Bool	false	False	True	True	True	False		
hmi_CilHuit	Bool	false	False	True	True	True	False		
hmi_blazer	Bool	false	False	True	True	True	False		
hmi_zuiger	Bool	false	False	True	True	True	False		
hmi_k1	Bool	false	False	True	True	True	False		
hmi_k2	Bool	false	False	True	True	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB [DB1]

IEC_Timer_0_DB Properties					
General					
Name	IEC_Timer_0_DB	**Number**	1	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_1 [DB2]

IEC_Timer_0_DB_1 Properties					
General					
Name	IEC_Timer_0_DB_1	**Number**	2	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_2 [DB4]

IEC_Timer_0_DB_2 Properties					
General					
Name	IEC_Timer_0_DB_2	**Number**	4	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_3 [DB7]

IEC_Timer_0_DB_3 Properties					
General					
Name	IEC_Timer_0_DB_3	**Number**	7	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_4 [DB8]

IEC_Timer_0_DB_4 Properties					
General					
Name	IEC_Timer_0_DB_4	**Number**	8	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_5 [DB15]

IEC_Timer_0_DB_5 Properties					
General					
Name	IEC_Timer_0_DB_5	**Number**	15	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_6 [DB16]

IEC_Timer_0_DB_6 Properties					
General					
Name	IEC_Timer_0_DB_6	**Number**	16	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_7 [DB17]

IEC_Timer_0_DB_7 Properties					
General					
Name	IEC_Timer_0_DB_7	**Number**	17	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_11 [DB26]

IEC_Timer_0_DB_11 Properties					
General					
Name	IEC_Timer_0_DB_11	**Number**	26	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_13 [DB20]

IEC_Timer_0_DB_13 Properties					
General					
Name	IEC_Timer_0_DB_13	**Number**	20	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_9 [DB19]

IEC_Timer_0_DB_9 Properties					
General					
Name	IEC_Timer_0_DB_9	**Number**	19	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_12 [DB27]

IEC_Timer_0_DB_12 Properties					
General					
Name	IEC_Timer_0_DB_12	**Number**	27	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_8 [DB18]

IEC_Timer_0_DB_8 Properties					
General					
Name	IEC_Timer_0_DB_8	**Number**	18	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_10 [DB22]

IEC_Timer_0_DB_10 Properties					
General					
Name	IEC_Timer_0_DB_10	**Number**	22	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_14 [DB28]

IEC_Timer_0_DB_14 Properties					
General					
Name	IEC_Timer_0_DB_14	**Number**	28	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_15 [DB29]

IEC_Timer_0_DB_15 Properties					
General					
Name	IEC_Timer_0_DB_15	**Number**	29	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_16 [DB30]

IEC_Timer_0_DB_16 Properties					
General					
Name	IEC_Timer_0_DB_16	**Number**	30	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_17 [DB31]

IEC_Timer_0_DB_17 Properties					
General					
Name	IEC_Timer_0_DB_17	**Number**	31	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_18 [DB32]

IEC_Timer_0_DB_18 Properties					
General					
Name	IEC_Timer_0_DB_18	**Number**	32	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC_Timer_0_DB_19 [DB33]

IEC_Timer_0_DB_19 Properties					
General					
Name	IEC_Timer_0_DB_19	**Number**	33	**Type**	DB
Language	DB	**Numbering**	Automatic		
Information					
Title		**Author**	Simatic	**Comment**	
Family	IEC	**Version**	1.0	**User-defined ID**	IEC_TMR

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		