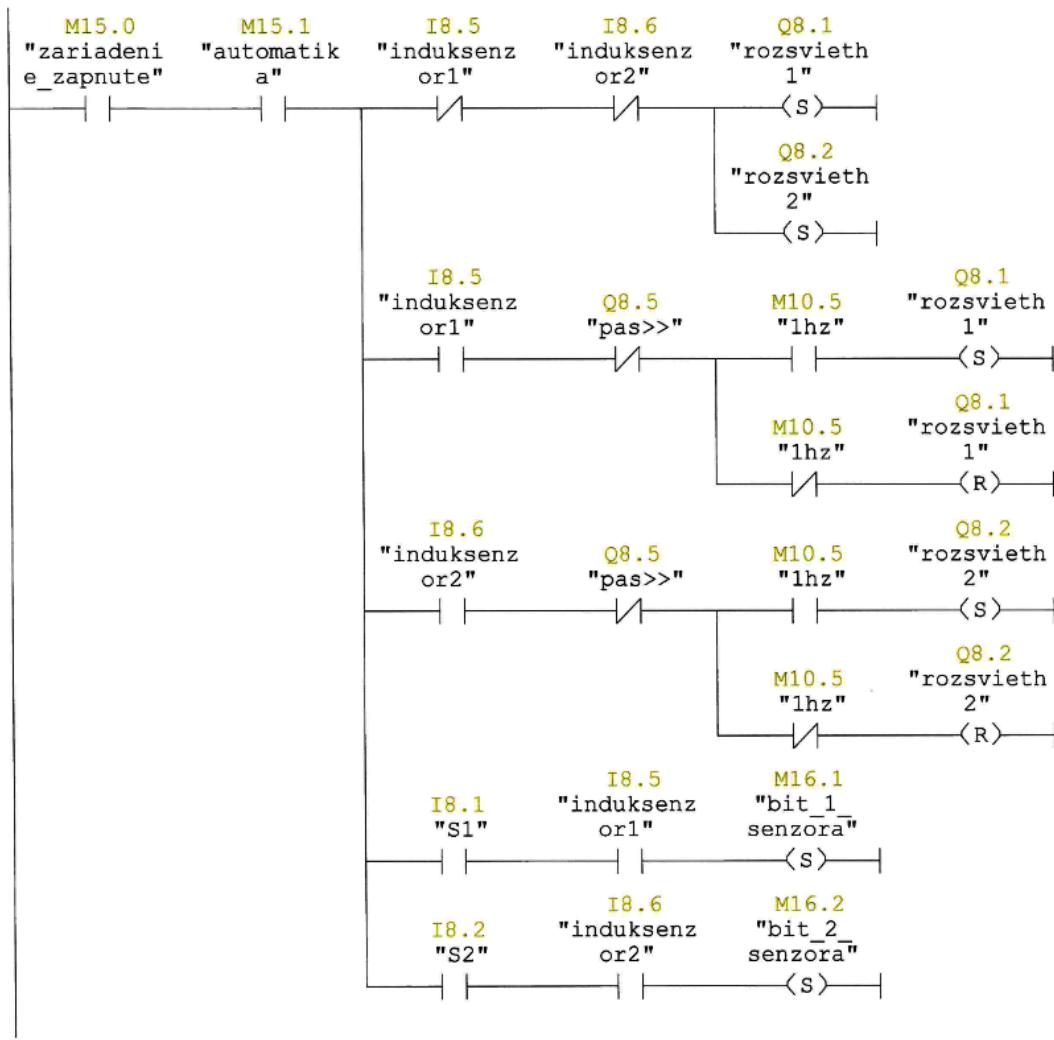


PLC a SIMATIC 3b - Riešenia a programy :)

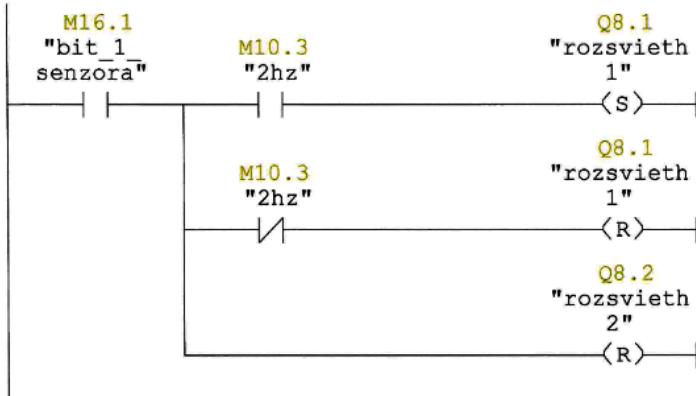
FC14

Block: FC14 as Ladder diagram

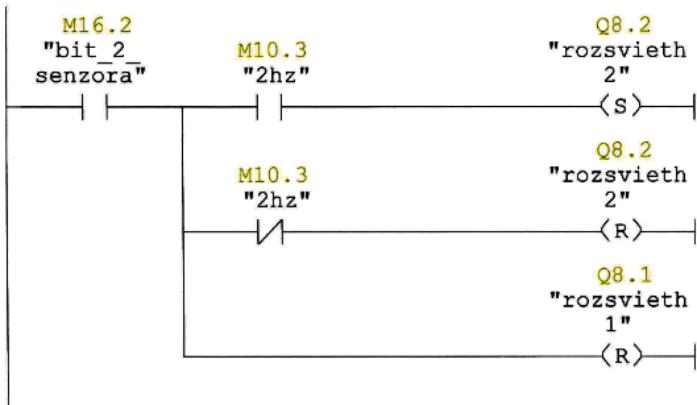
Network: 1



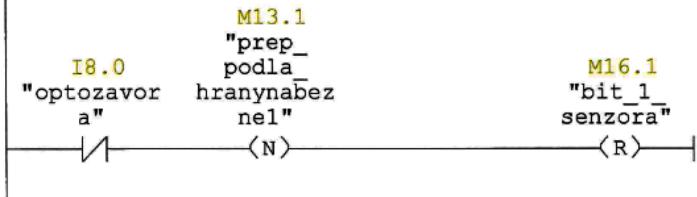
Network: 2



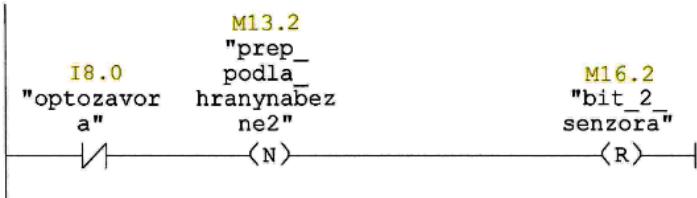
Network: 3



Network: 4



Network: 5



FC14

Block: FC14 as **STL**

Network: 1

```

A "zariadenie_zapnute" M15.0
A "automatika" M15.1
= L 0.0
A L 0.0
AN "induksenzor1" I8.5
AN "induksenzor2" I8.6
S "rozsvieth1" Q8.1
S "rozsvieth2" Q8.2
A L 0.0
A "induksenzor1" I8.5
AN "pas>>" Q8.5
= L 0.1
A L 0.1
A "1hz" M10.5
S "rozsvieth1" Q8.1
A L 0.1
AN "1hz" M10.5
R "rozsvieth1" Q8.1
A L 0.0
A "induksenzor2" I8.6
AN "pas>>" Q8.5
= L 0.1
A L 0.1
A "1hz" M10.5
S "rozsvieth2" Q8.2
A L 0.1
AN "1hz" M10.5
R "rozsvieth2" Q8.2
A L 0.0
A "S1" I8.1
A "induksenzor1" I8.5
S "bit_1_senzora" M16.1
A L 0.0
A "S2" I8.2
A "induksenzor2" I8.6
S "bit_2_senzora" M16.2

```

Network: 2

```

A "bit_1_senzora" M16.1
= L 0.0
A L 0.0
A "2hz" M10.3
S "rozsvieth1" Q8.1
A L 0.0
AN "2hz" M10.3
R "rozsvieth1" Q8.1
A L 0.0
BLD 102
R "rozsvieth2" Q8.2

```

Network: 3

```

A "bit_2_senzora" M16.2
= L 0.0
A L 0.0
A "2hz" M10.3
S "rozsvieth2" Q8.2
A L 0.0
AN "2hz" M10.3
R "rozsvieth2" Q8.2
A L 0.0
BLD 102
R "rozsvieth1" Q8.1

```

Network: 4

```

AN "optozavora" I8.0
FN "prep_podla_hranynabezne1" M13.1
R "bit_1_senzora" M16.1

```

Network: 5

```

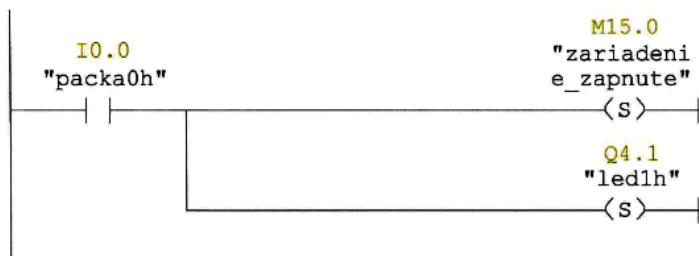
AN "optozavora" I8.0
FN "prep_podla_hranynabezne2" M13.2
R "bit_2_senzora" M16.2

```

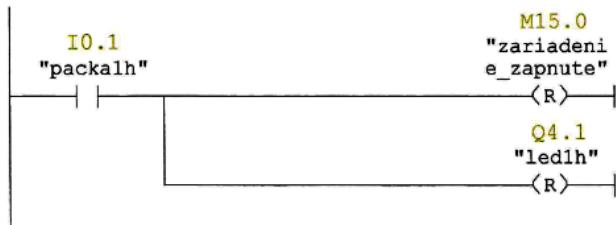
FC15

Block: FC15 as Ladder diagram

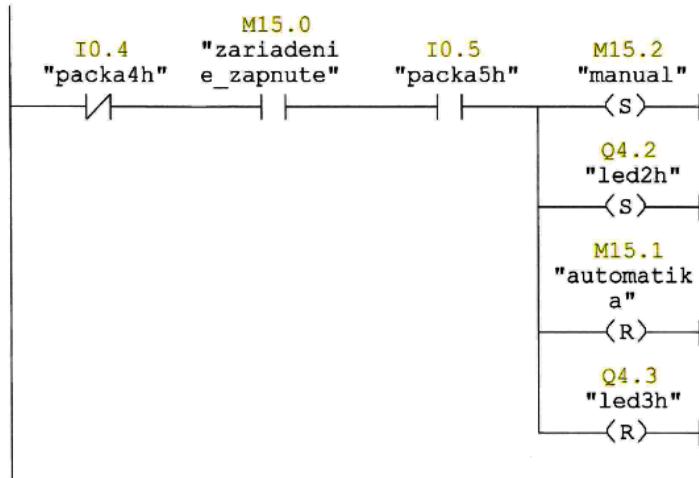
Network: 1



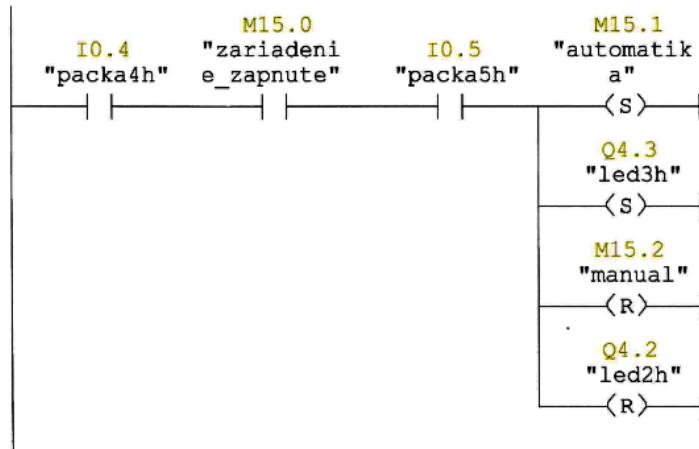
Network: 2



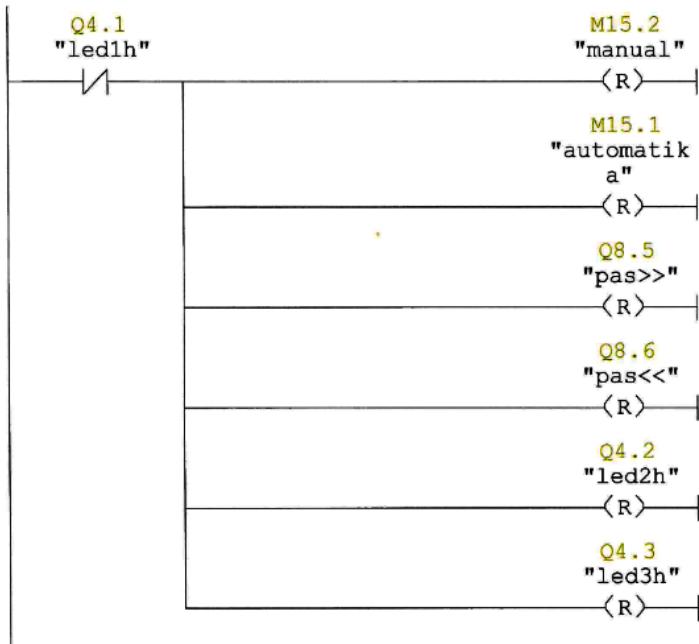
Network: 3



Network: 4



Network: 5



FC15

Block: FC15 as STL

Network: 1

```

A      "packa0h"          I0.0
S      "zariadenie_zapnute" M15.0
S      "led1h"             Q4.1

```

Network: 2

```

A      "packa1h"          I0.1
R      "zariadenie_zapnute" M15.0
R      "led1h"             Q4.1

```

Network: 3

```

AN     "packa4h"          I0.4
A      "zariadenie_zapnute" M15.0
A      "packa5h"          I0.5
S      "manual"           M15.2
S      "led2h"             Q4.2
R      "automatika"        M15.1
R      "led3h"             Q4.3

```

Network: 4

```

A      "packa4h"          I0.4
A      "zariadenie_zapnute" M15.0
A      "packa5h"          I0.5
S      "automatika"        M15.1
S      "led3h"             Q4.3
R      "manual"           M15.2
R      "led2h"             Q4.2

```

Network: 5

```

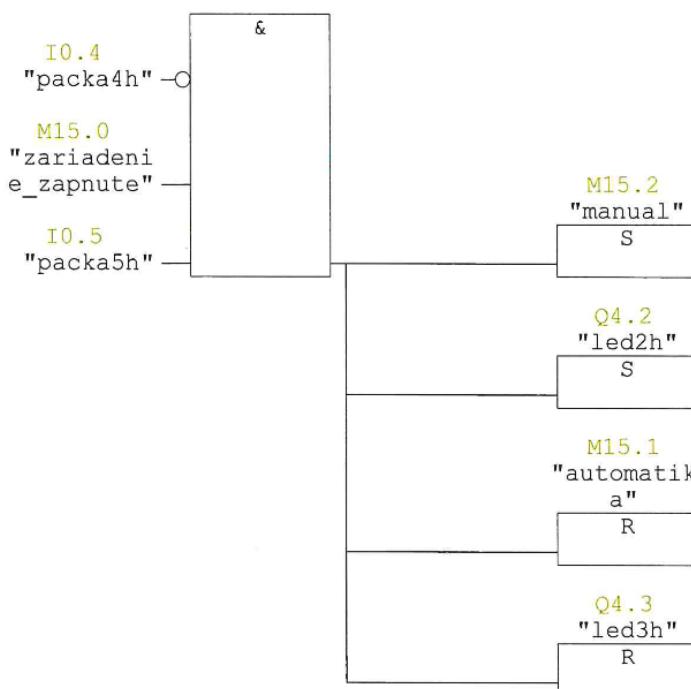
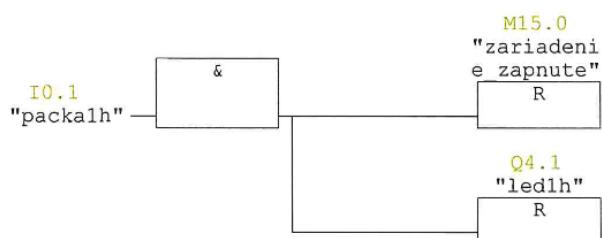
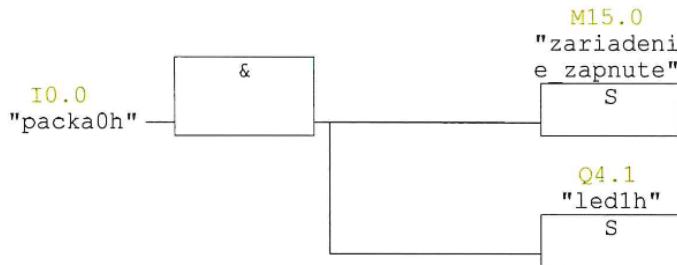
AN     "led1h"             Q4.1
R      "manual"            M15.2
R      "automatika"         M15.1
R      "pas>>"           Q8.5
R      "pas<<"            Q8.6
R      "led2h"              Q4.2
R      "led3h"              Q4.3

```

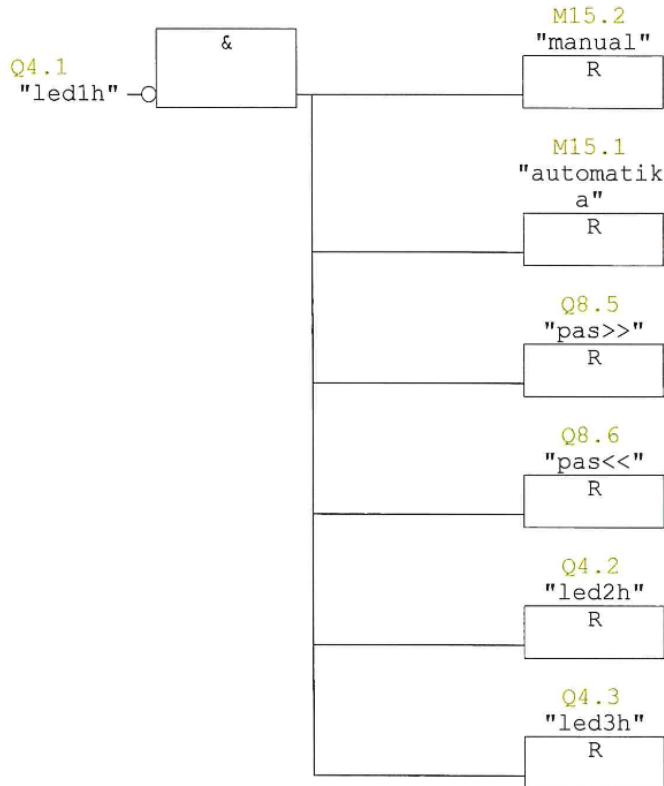
FC15

Block: FC15 as FBD

Network: 1



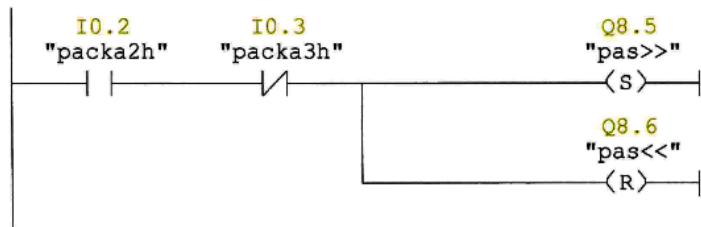
Network: 5



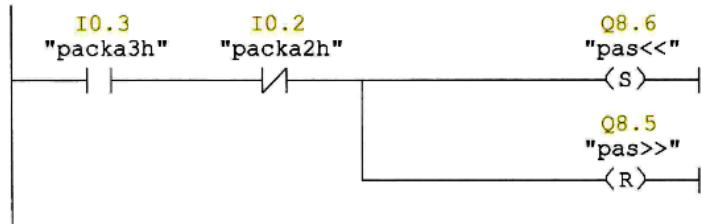
FC16

Block: FC16 as Ladder diagram

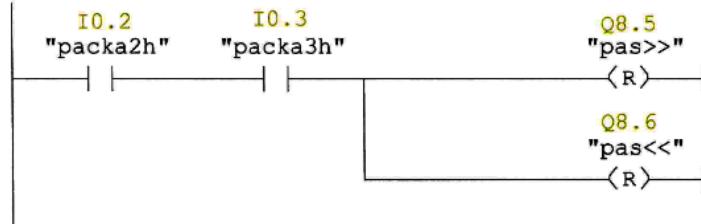
Network: 1



Network: 2



Network: 3



FC16

Block: FC16 as STL

Network: 1

A	"packa2h"	I0.2
AN	"packa3h"	I0.3
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6

Network: 2

A	"packa3h"	I0.3
AN	"packa2h"	I0.2
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5

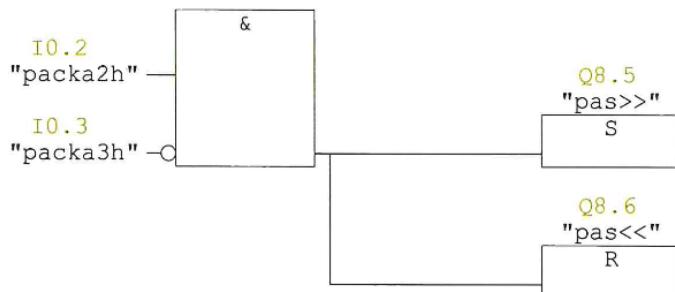
Network: 3

A	"packa2h"	I0.2
A	"packa3h"	I0.3
R	"pas>>"	Q8.5
R	"pas<<"	Q8.6
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6

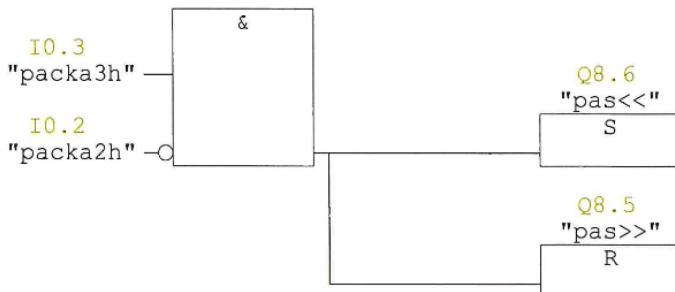
FC16

Block: FC16 as FBD

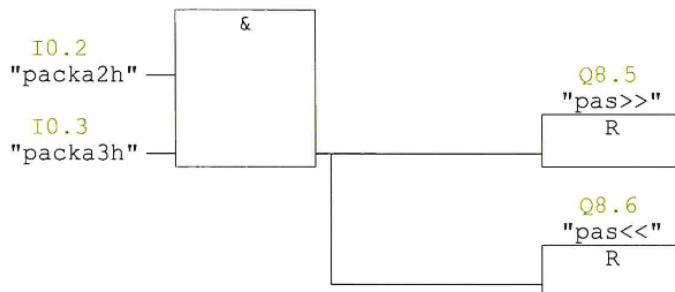
Network: 1



Network: 2



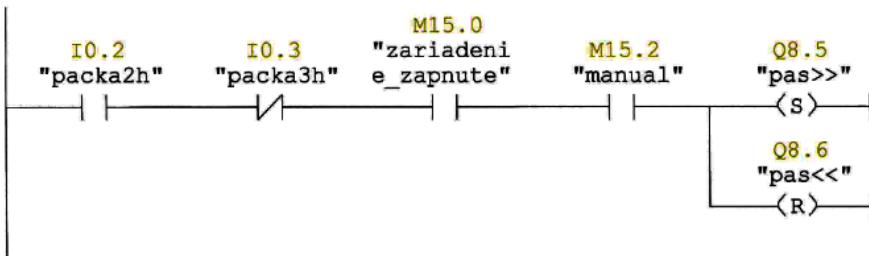
Network: 3



FC162

Block: FC162 as Ladder diagram

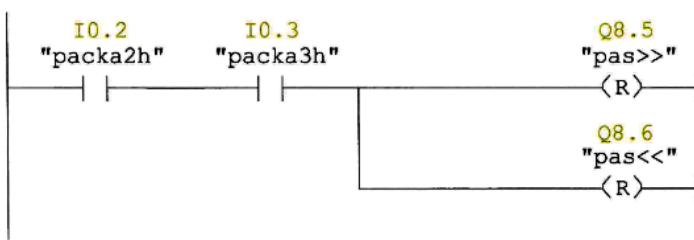
Network: 1



Network: 2



Network: 3



FC162

Block: FC162 as STL

Network: 1

A	"packa2h"	I0.2
AN	"packa3h"	I0.3
A	"zariadenie_zapnute"	M15.0
A	"manual"	M15.2
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6

Network: 2

A	"packa3h"	I0.3
AN	"packa2h"	I0.2
A	"zariadenie_zapnute"	M15.0
A	"manual"	M15.2
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5

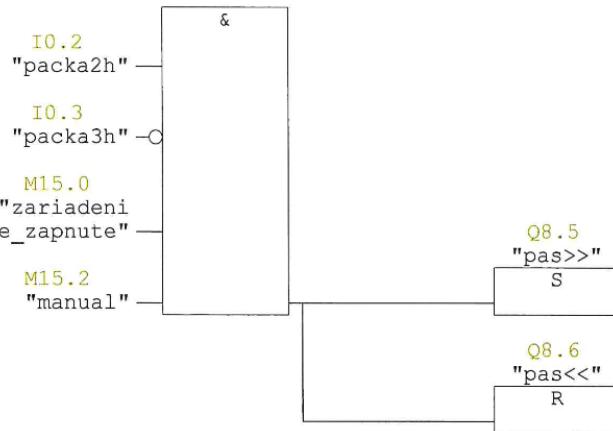
Network: 3

A	"packa2h"	I0.2
A	"packa3h"	I0.3
R	"pas>>"	Q8.5
R	"pas<<"	Q8.6

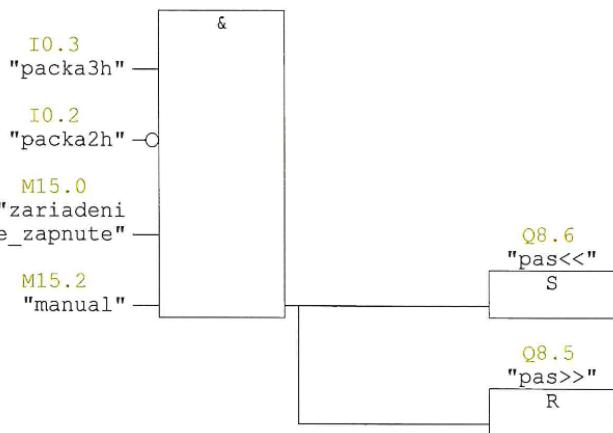
FC162

Block: FC162 as FBD

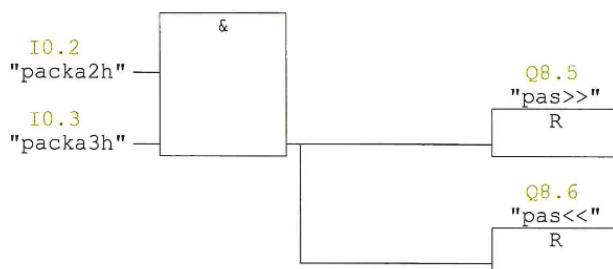
Network: 1



Network: 2



Network: 3



FC163

Block: FC163 as Ladder diagram

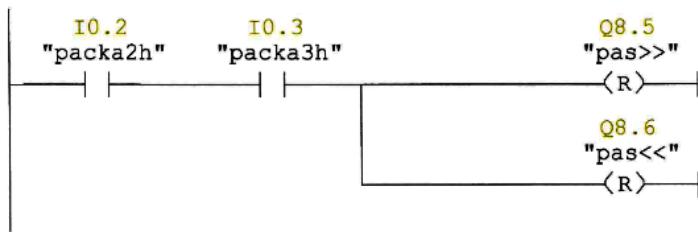
Network: 1



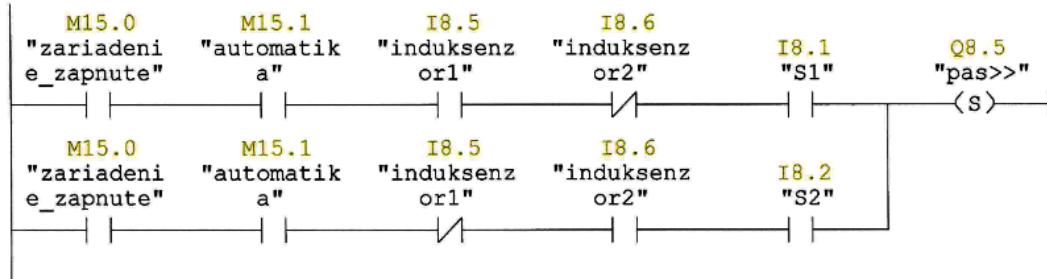
Network: 2



Network: 3



Network: 4



Network: 5



FC163

Block: FC163 as STL

Network: 1

A	"packa2h"	I0.2
AN	"packa3h"	I0.3
A	"zariadenie_zapnute"	M15.0
A	"manual"	M15.2
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6

Network: 2

A	"packa3h"	I0.3
AN	"packa2h"	I0.2
A	"zariadenie_zapnute"	M15.0
A	"manual"	M15.2
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5

Network: 3

A	"packa2h"	I0.2
A	"packa3h"	I0.3
R	"pas>>"	Q8.5
R	"pas<<"	Q8.6

Network: 4

A	"zariadenie_zapnute"	M15.0
A	"automatika"	M15.1
A	"induksenzor1"	I8.5
AN	"induksenzor2"	I8.6
A	"S1"	I8.1
O		
A	"zariadenie_zapnute"	M15.0
A	"automatika"	M15.1
AN	"induksenzor1"	I8.5
A	"induksenzor2"	I8.6
A	"S2"	I8.2
S	"pas>>"	Q8.5

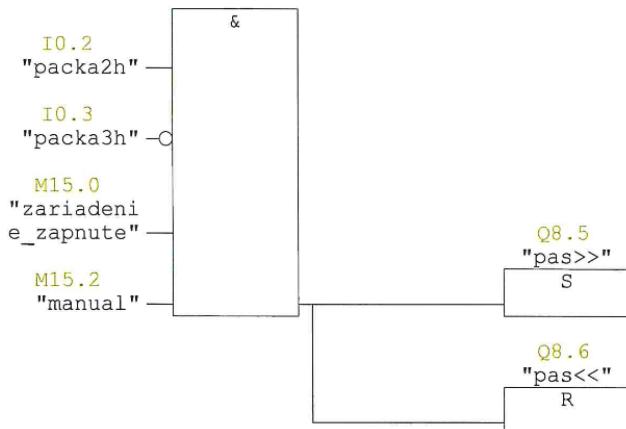
Network: 5

AN	"optozavora"	I8.0
R	"pas>>"	Q8.5

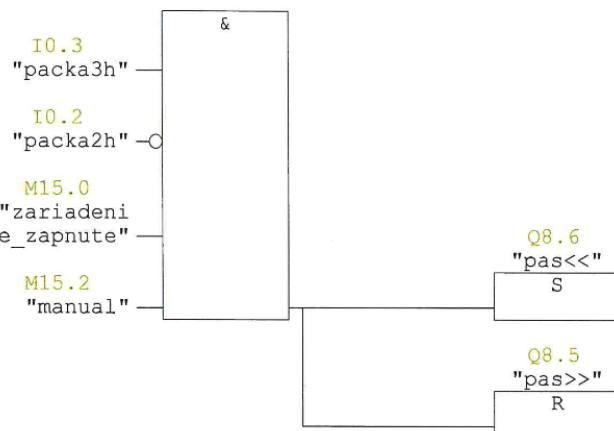
FC163

Block: FC163 as FBD

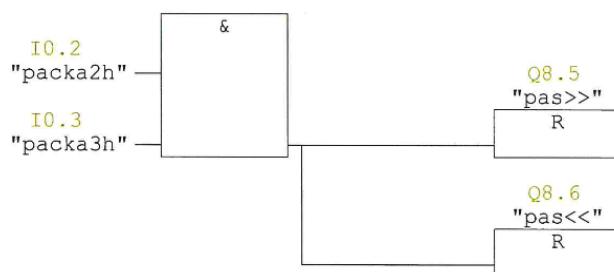
Network: 1



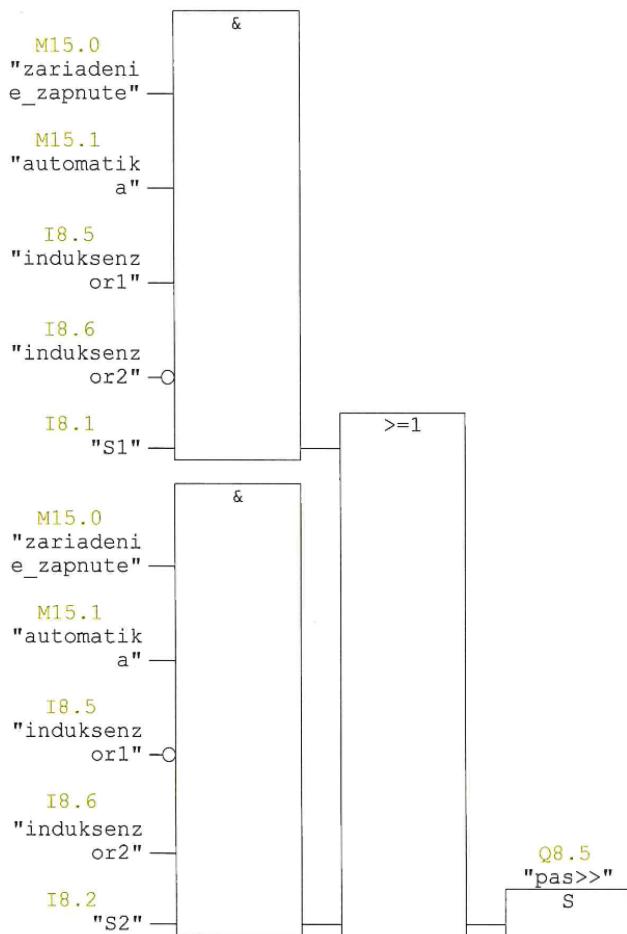
Network: 2



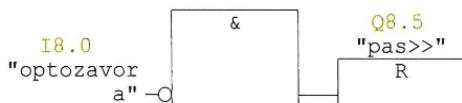
Network: 3



Network: 4



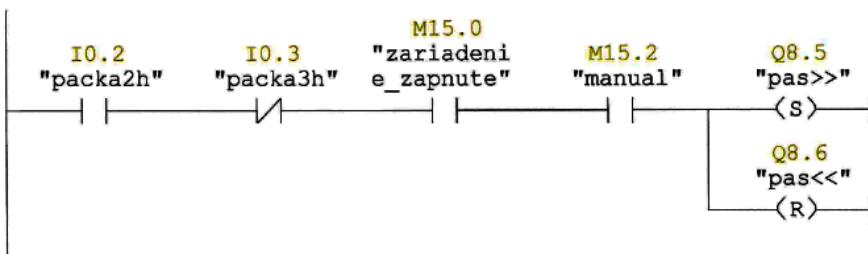
Network: 5



FC1632

Block: FC1632 as Ladder diagram

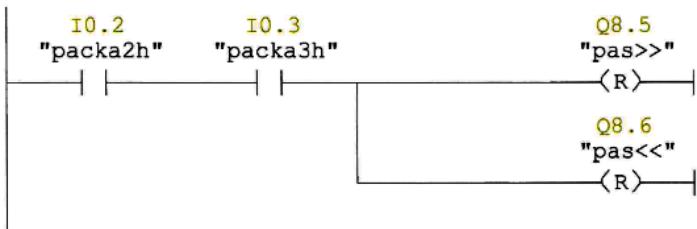
Network: 1



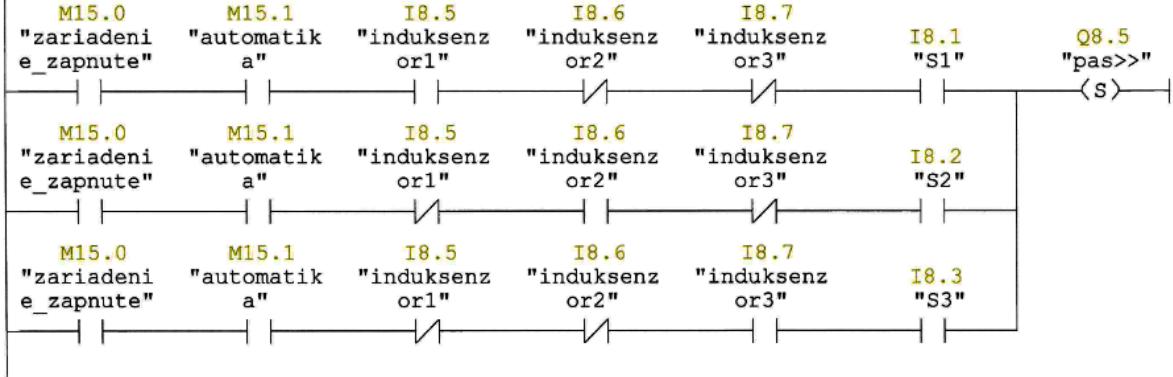
Network: 2



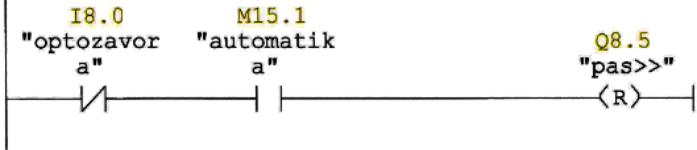
Network: 3



Network: 4



Network: 5



FC1633

Block: FC1633 as **Ladder diagram**

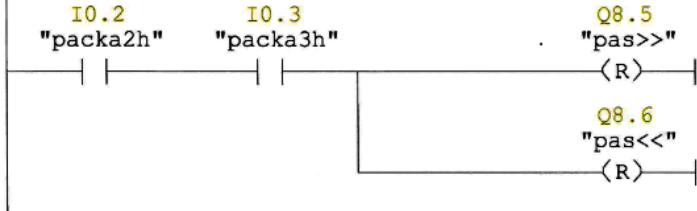
Network: 1



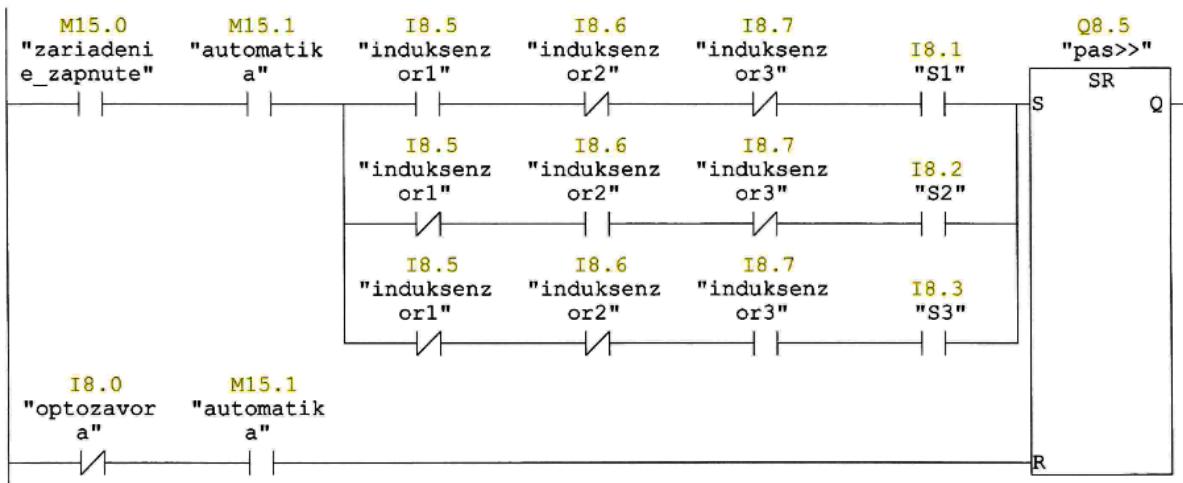
Network: 2



Network: 3



Network: 4



FC1633

Block: FC1633 as **STL**

Network: 1

A	"packa2h"	I0.2
AN	"packa3h"	I0.3
A	"zariadenie_zapnute"	M15.0
A	"manual"	M15.2
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6

Network: 2

A	"packa3h"	I0.3
AN	"packa2h"	I0.2
A	"zariadenie_zapnute"	M15.0
A	"manual"	M15.2
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5

Network: 3

A	"packa2h"	I0.2
A	"packa3h"	I0.3
R	"pas>>"	Q8.5
R	"pas<<"	Q8.6

Network: 4

```

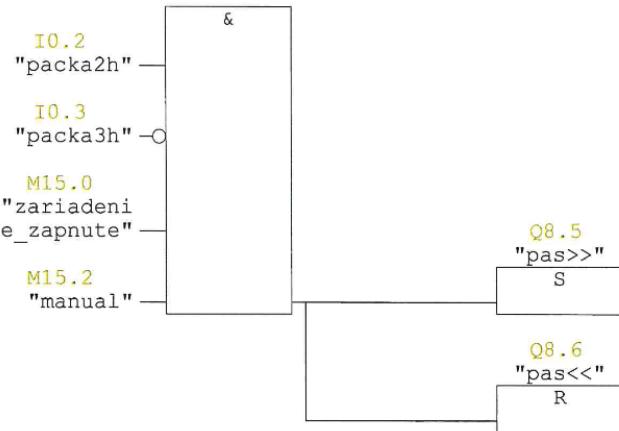
A "zariadenie_zapnute" M15.0
A "automatika" M15.1
A{
A "induksenzor1" I8.5
AN "induksenzor2" I8.6
AN "induksenzor3" I8.7
A "S1" I8.1
O
AN "induksenzor1" I8.5
A "induksenzor2" I8.6
AN "induksenzor3" I8.7
A "S2" I8.2
O
AN "induksenzor1" I8.5
AN "induksenzor2" I8.6
A "induksenzor3" I8.7
A "S3" I8.3
)
S "pas>>" Q8.5
AN "optozavora" I8.0
A "automatika" M15.1
R "pas>>" Q8.5
NOP 0

```

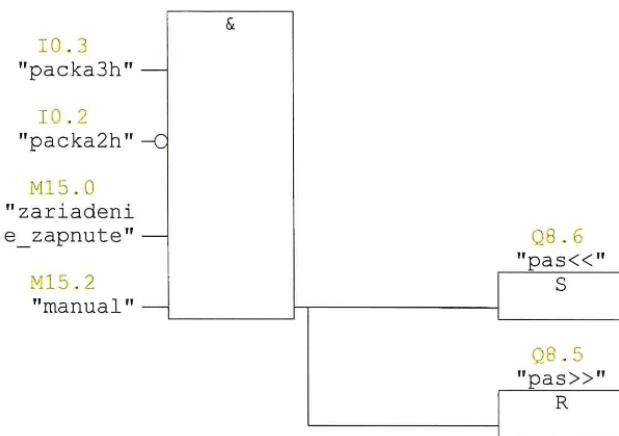
FC1633

Block: FC1633 as FBD

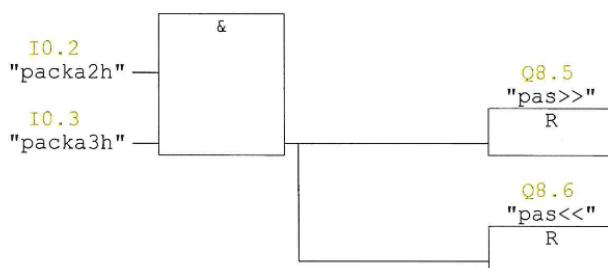
Network: 1



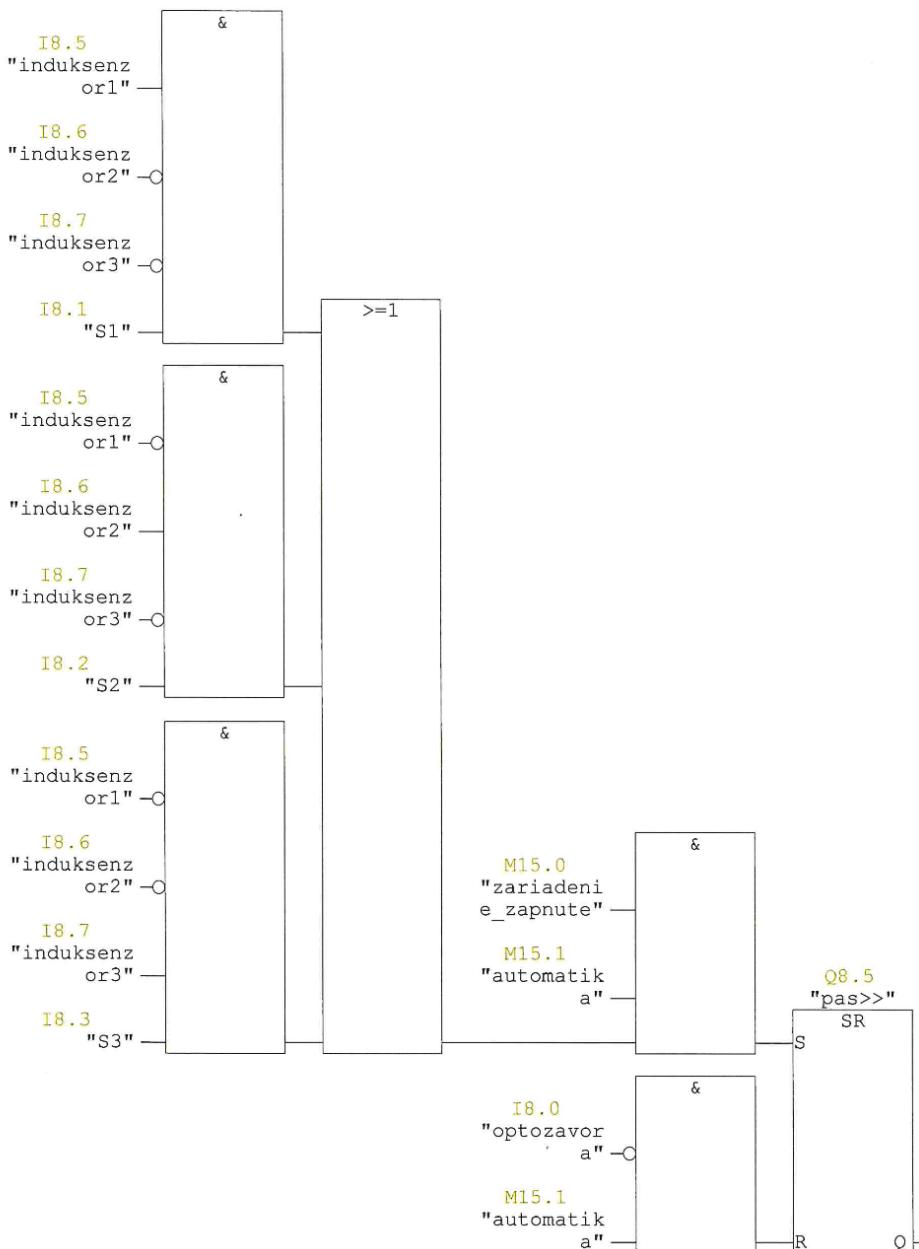
Network: 2



Network: 3



Network: 4



FC164

Block: FC164 as Ladder diagram

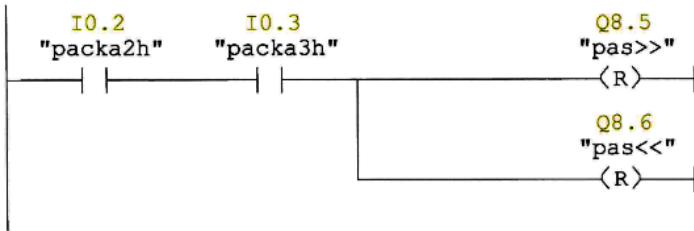
Network: 1



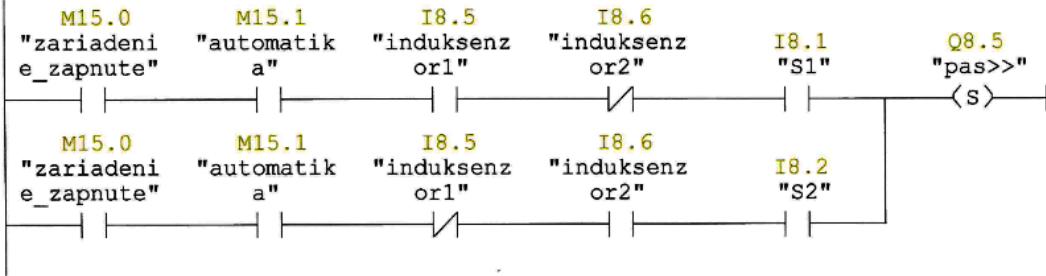
Network: 2



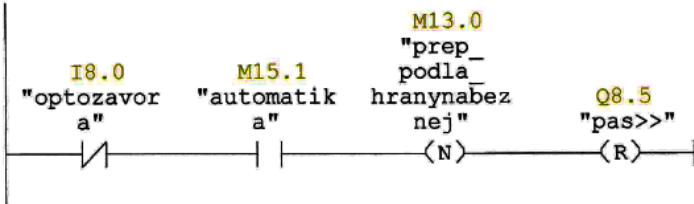
Network: 3



Network: 4



Network: 5



FC200

Block: FC200 as Ladder diagram

Network: 1



Network: 2



Network: 3



FC200

Block: FC200 as STL

Network: 1

```

A      "packa0h"  I0.0
S      M      50.1

```

Network: 2

```

A      M      50.1
A      "1hz"  M10.5
=      "pas>>"  Q8.5

```

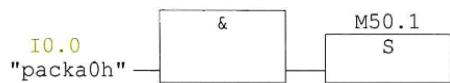
Network: 3

AN "packa0h" I0.0
R M 50.1

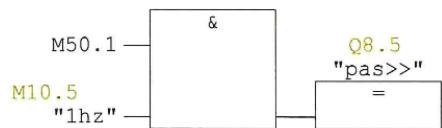
FC200

Block: FC200 as FBD

Network: 1



Network: 2



Network: 3

