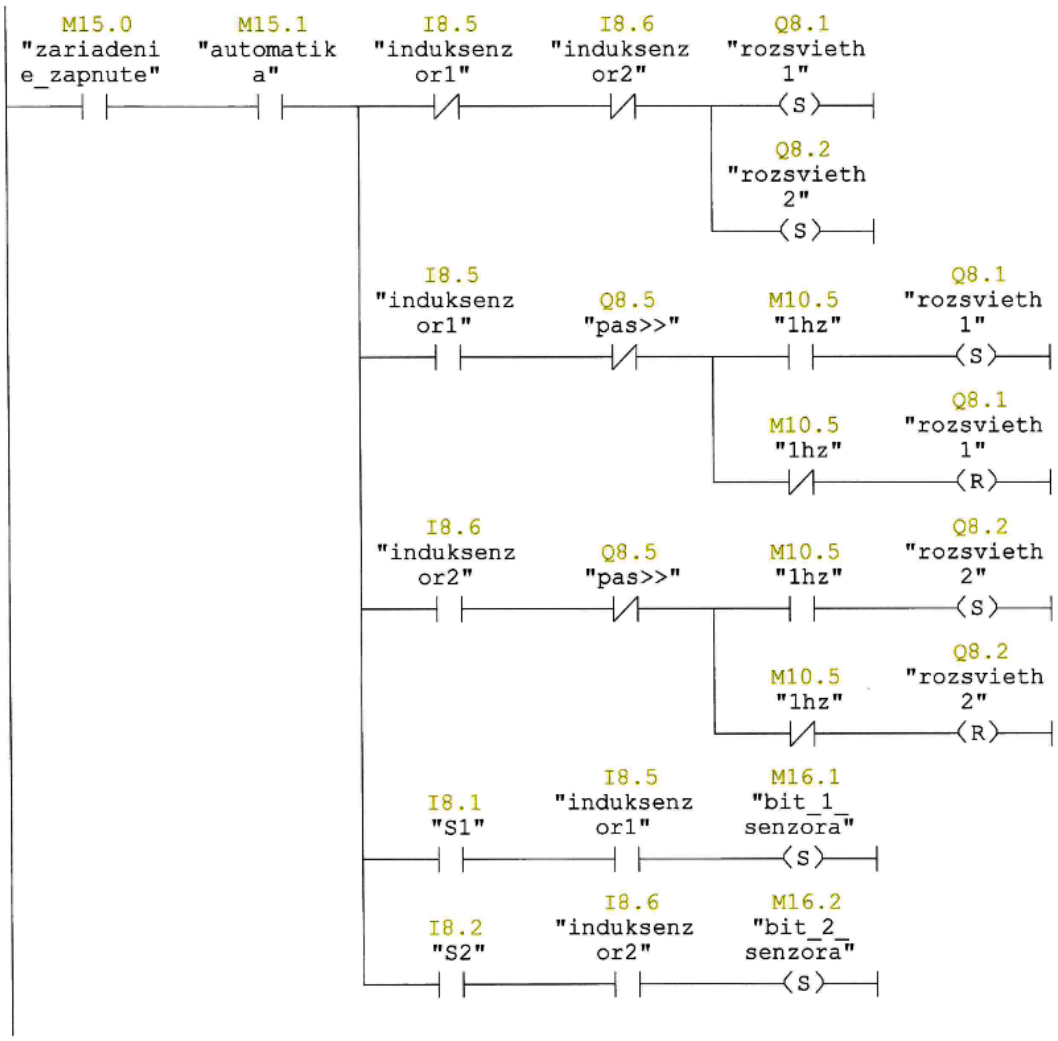
PLC a SIMATIC 3b - Riešenia a programy :)

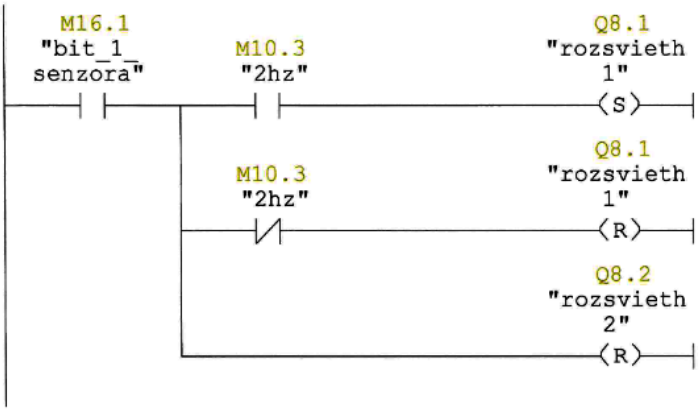
FC14

Block: FC14 as Ladder diagram

Network: 1

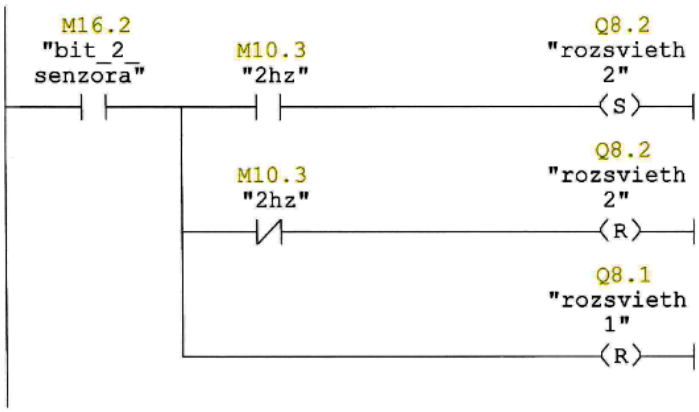


Network: 2

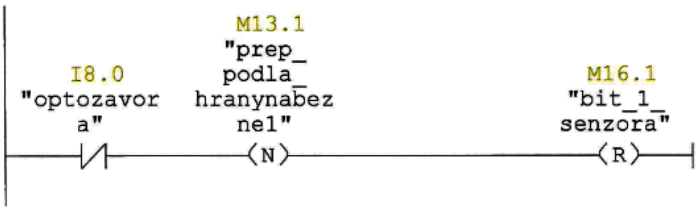


Network: 3

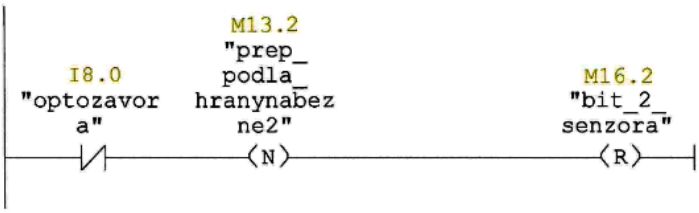
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Network: 4



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
```

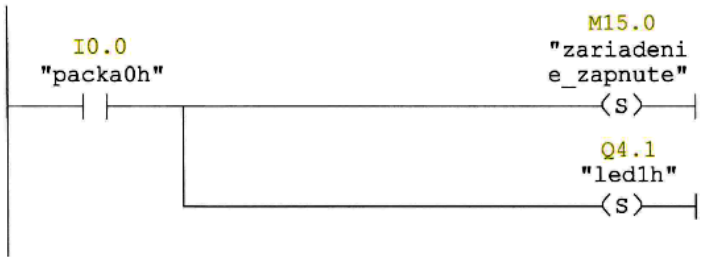
Network: 5

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

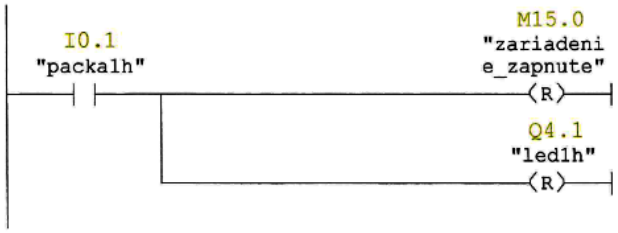
FC15

Block: FC15 as **Ladder diagram**

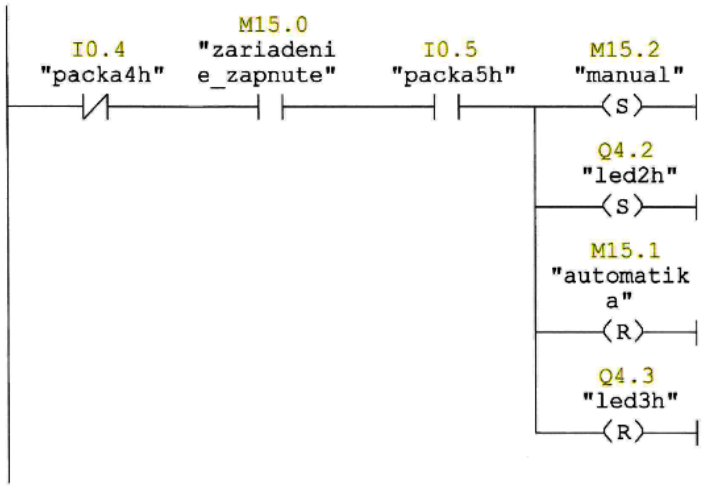
Network: 1



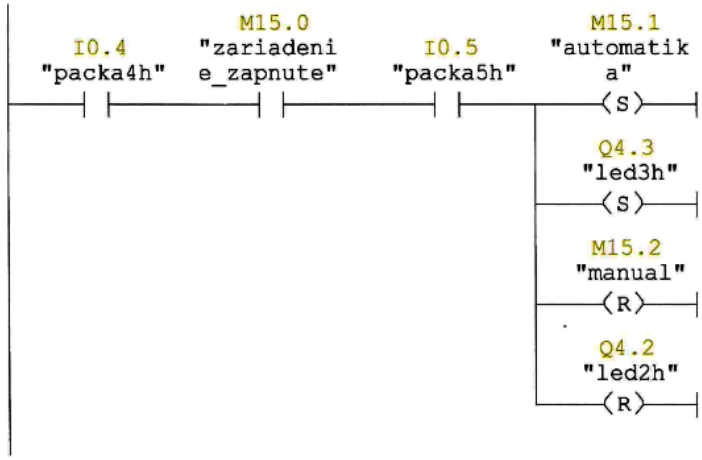
Network: 2



Network: 3

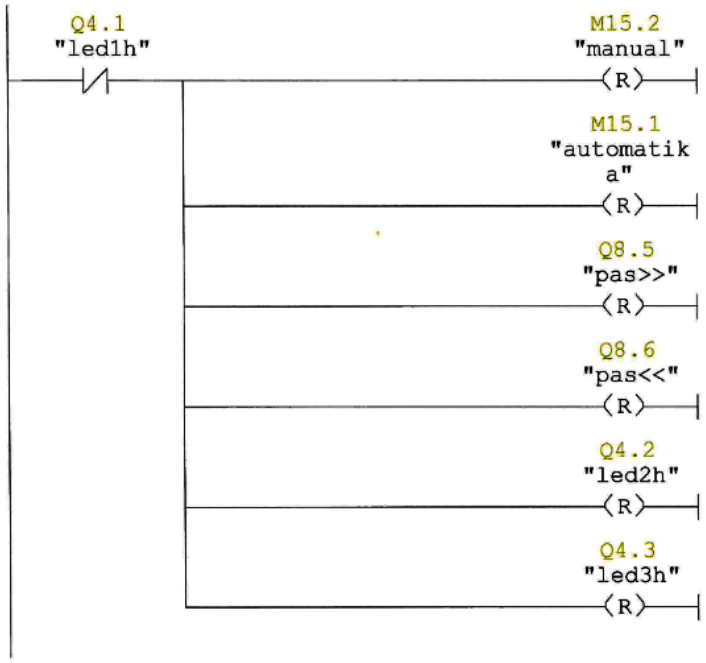


Network: 4



Network: 5

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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
```

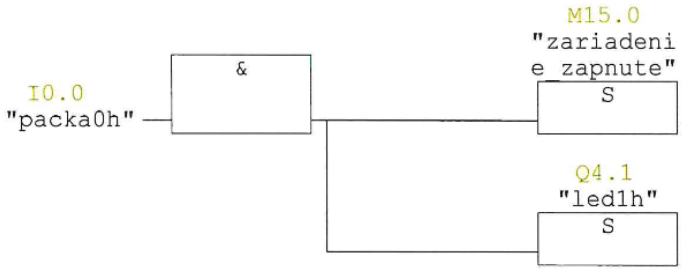
Network: 5

```
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
```

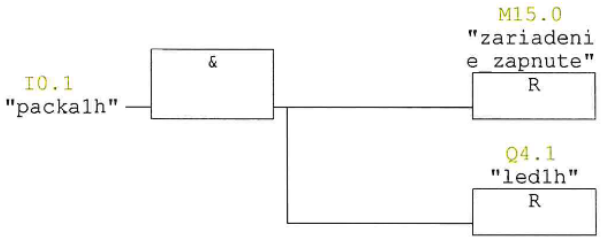
FC15

Block: FC15 as **FBD**

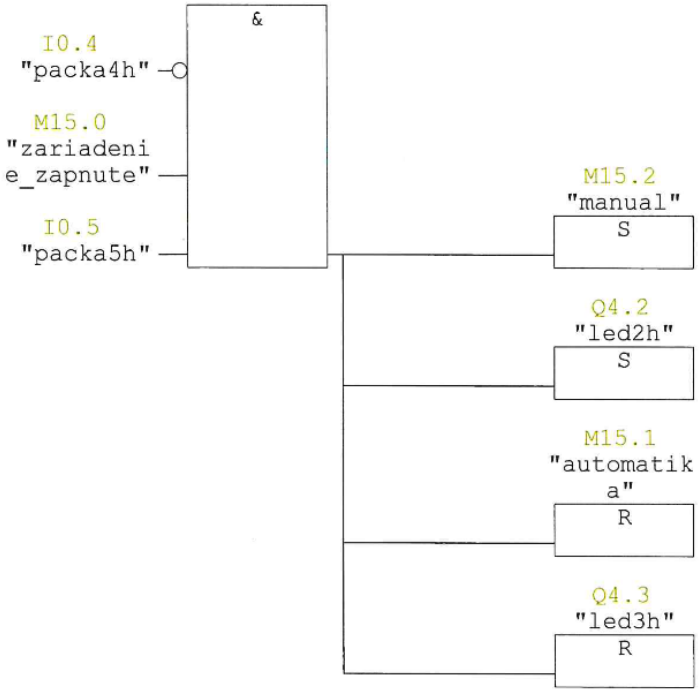
Network: 1



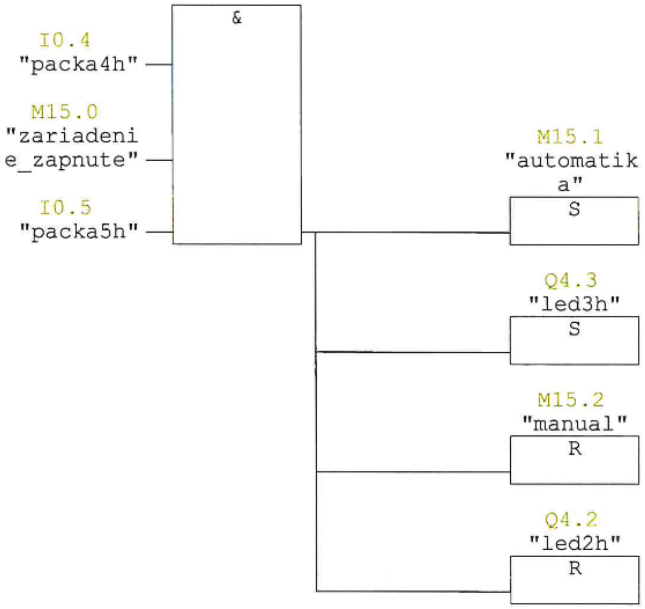
Network: 2



Network: 3

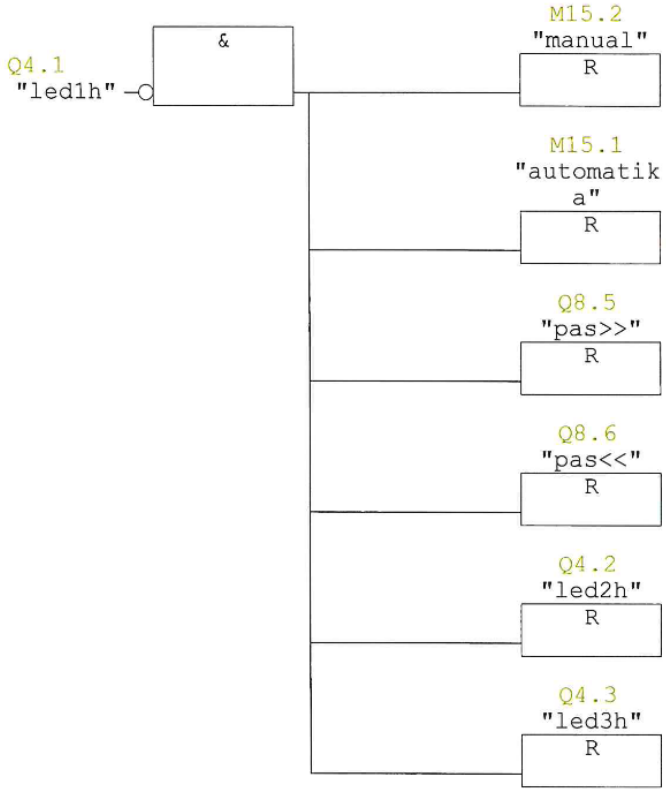


Network: 4



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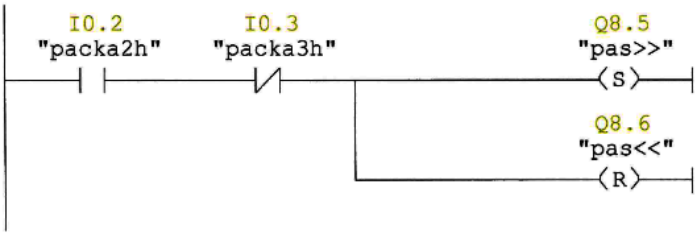
Network: 5



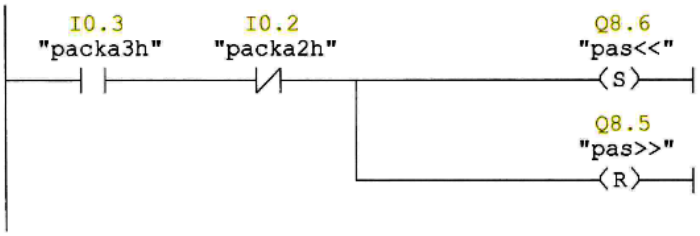
FC16

Block: FC16 as **Ladder diagram**

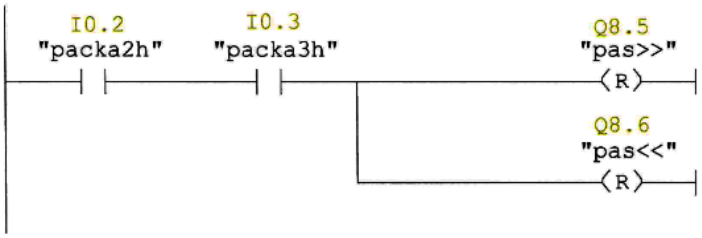
Network: 1



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

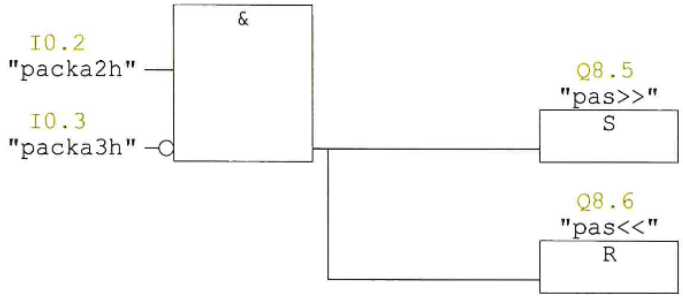
```
A     "packa2h"  I0.2
A     "packa3h"  I0.3
R     "pas>>"    Q8.5
R     "pas<<"    Q8.6

S     "pas>>"    Q8.5
R     "pas<<"    Q8.6
```

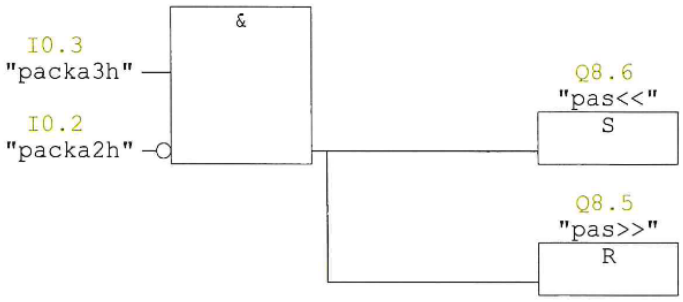
FC16

Block: FC16 as **FBD**

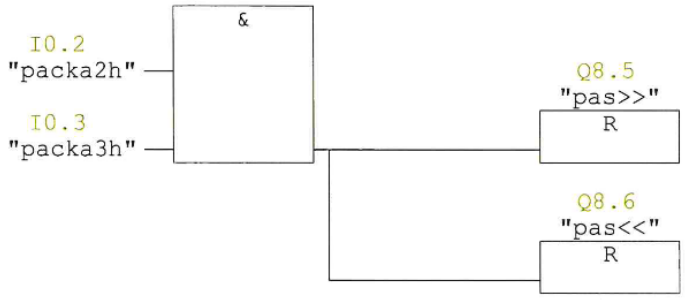
Network: 1



Network: 2



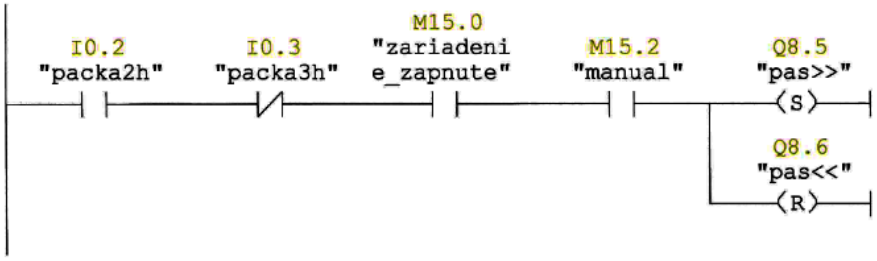
Network: 3



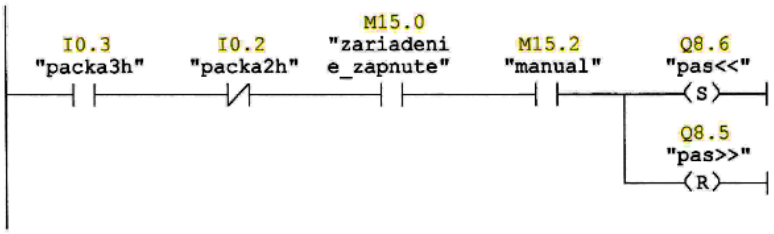
FC162

Block: FC162 as **Ladder diagram**

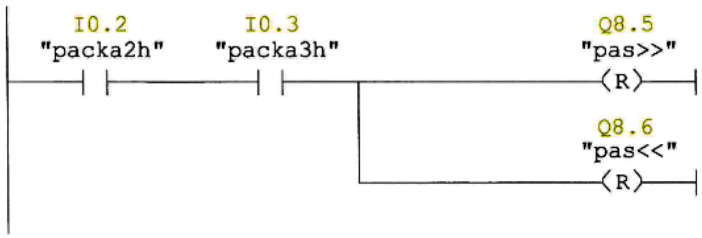
Network: 1



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

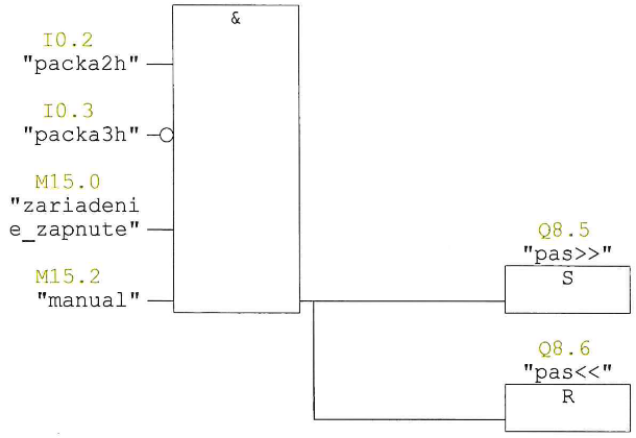
```
A     "packa2h"  I0.2
A     "packa3h"  I0.3
R     "pas>>"    Q8.5
R     "pas<<"    Q8.6
```

FC162

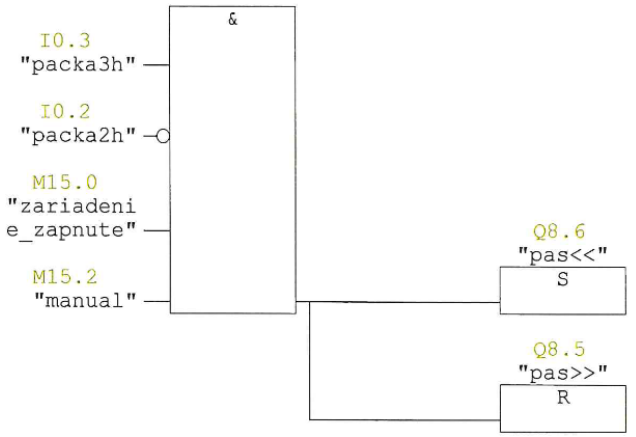
Block: FC162 as **FBD**

Network: 1

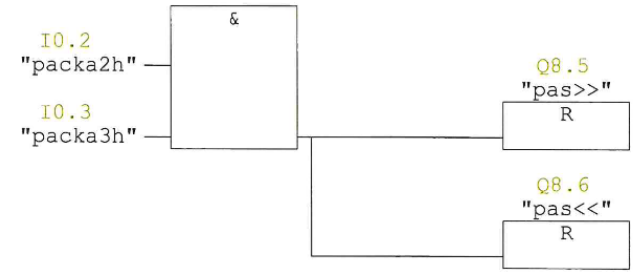
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Network: 2



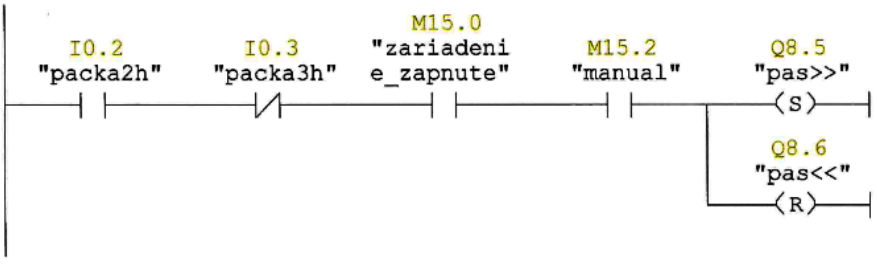
Network: 3



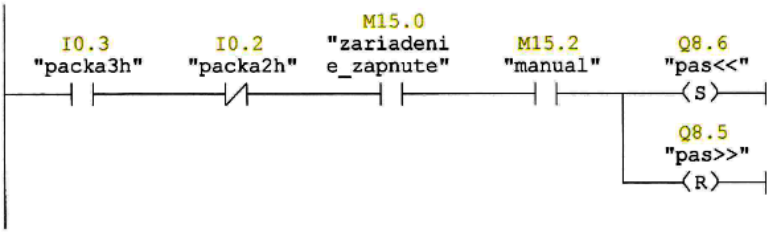
FC163

Block: FC163 as **Ladder diagram**

Network: 1

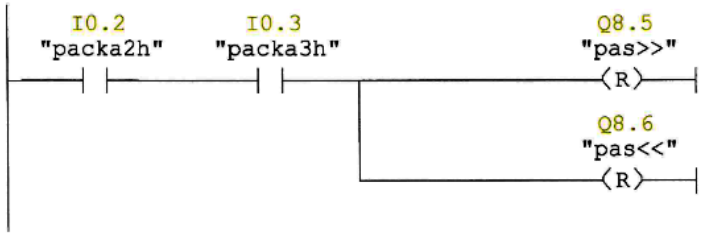


Network: 2

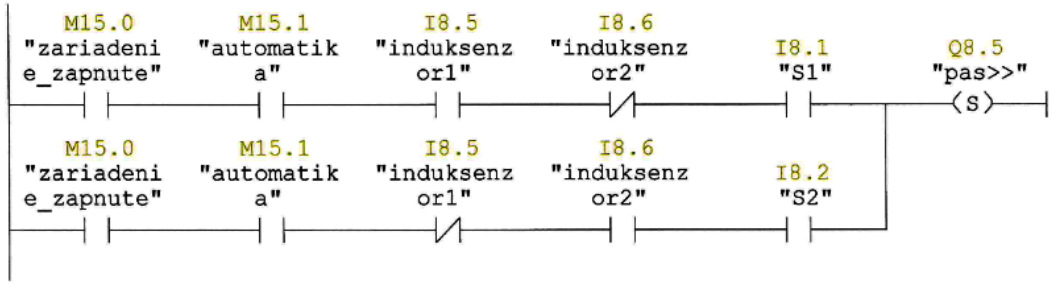


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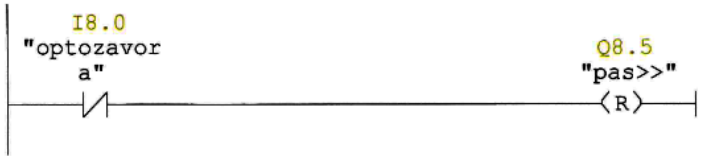
Network: 3



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
```

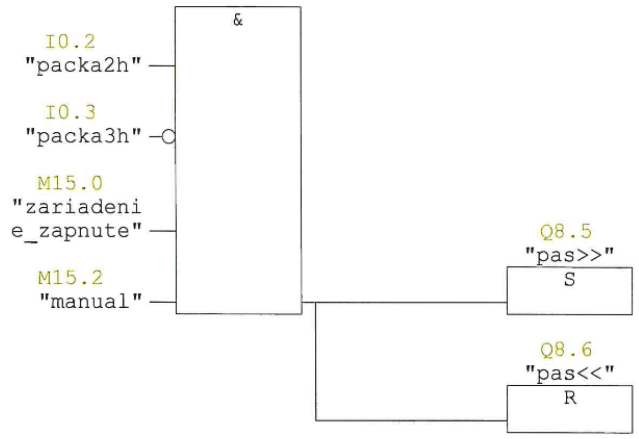
Network: 5

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

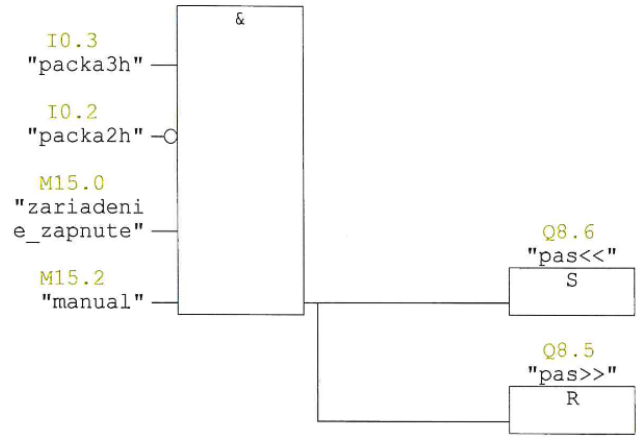
FC163

Block: FC163 as **FBD**

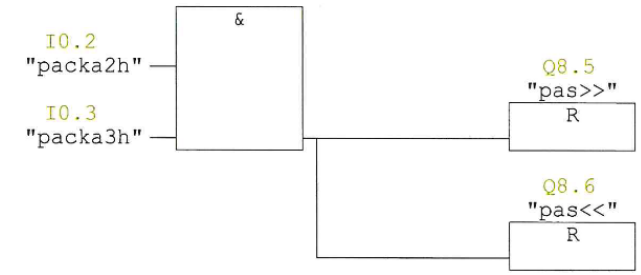
Network: 1



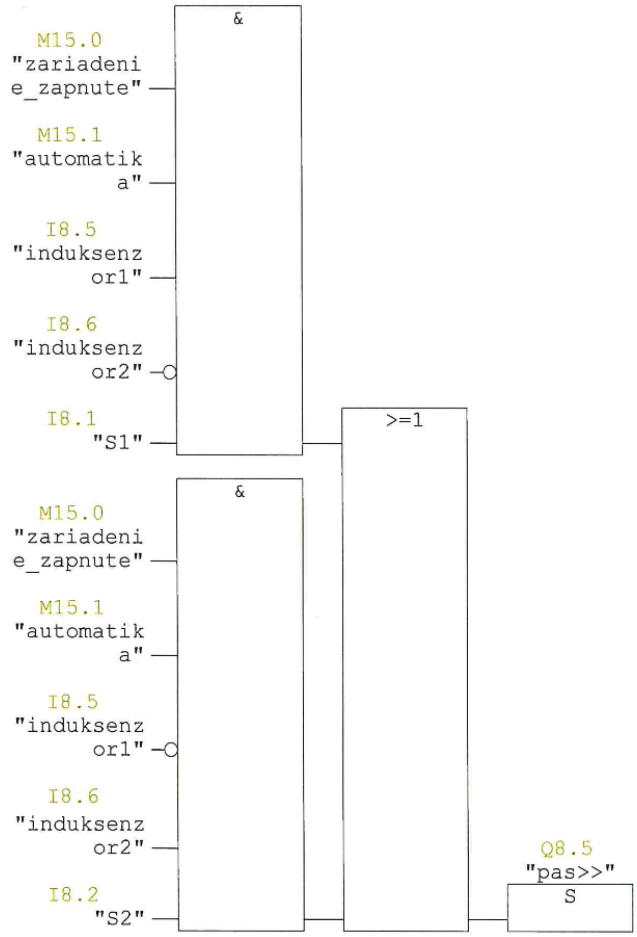
Network: 2



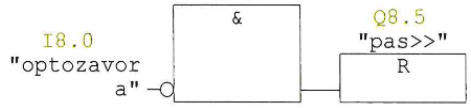
Network: 3



Network: 4



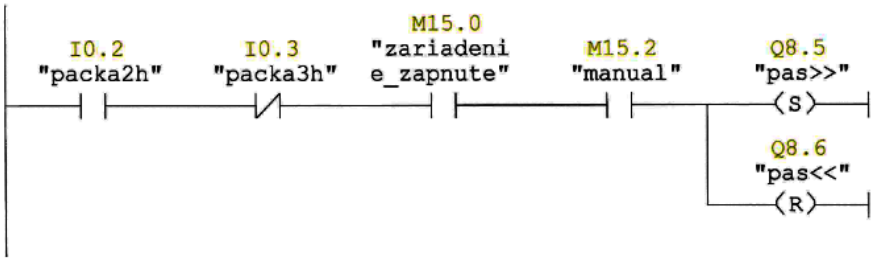
Network: 5



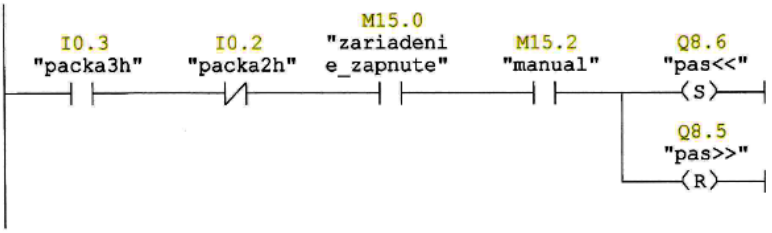
FC1632

Block: FC1632 as **Ladder diagram**

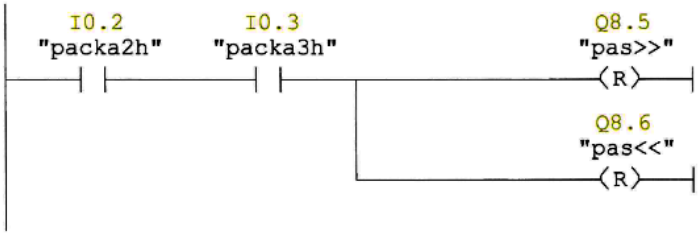
Network: 1



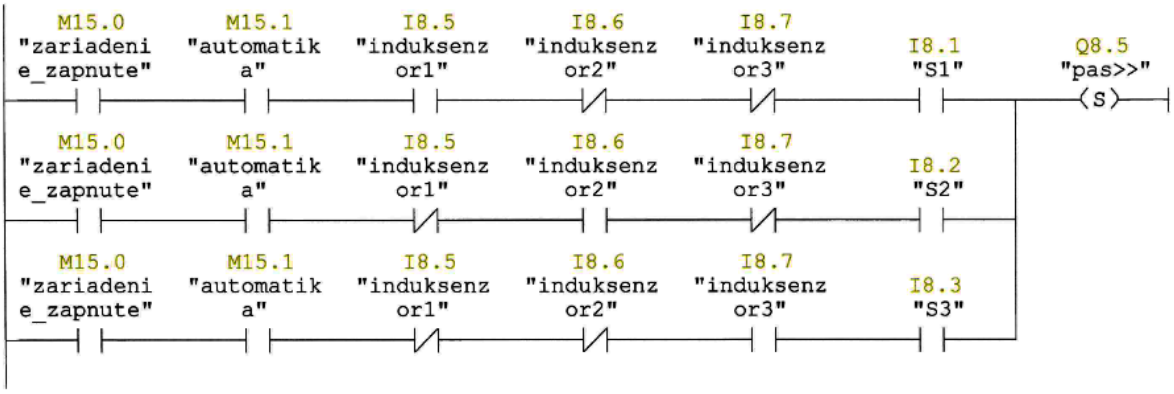
Network: 2



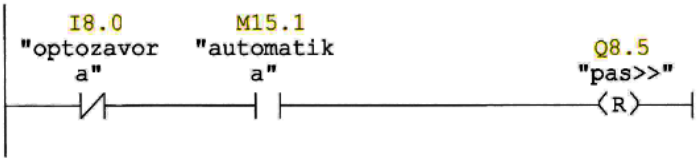
Network: 3



Network: 4



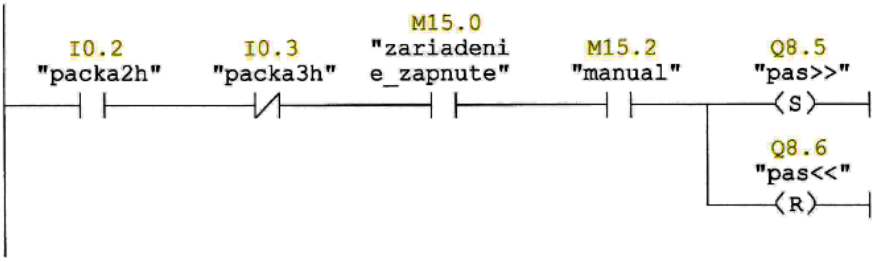
Network: 5



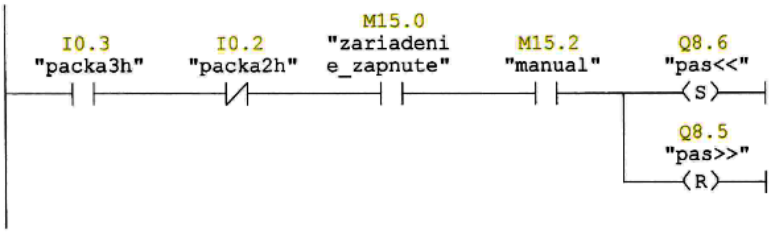
FC1633

Block: FC1633 as **Ladder diagram**

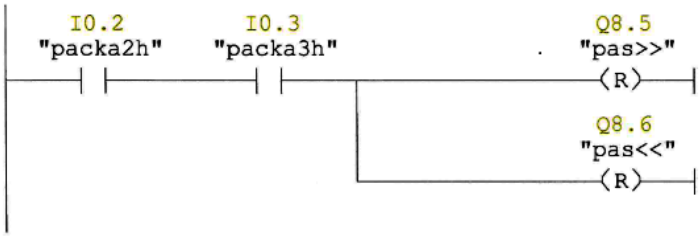
Network: 1



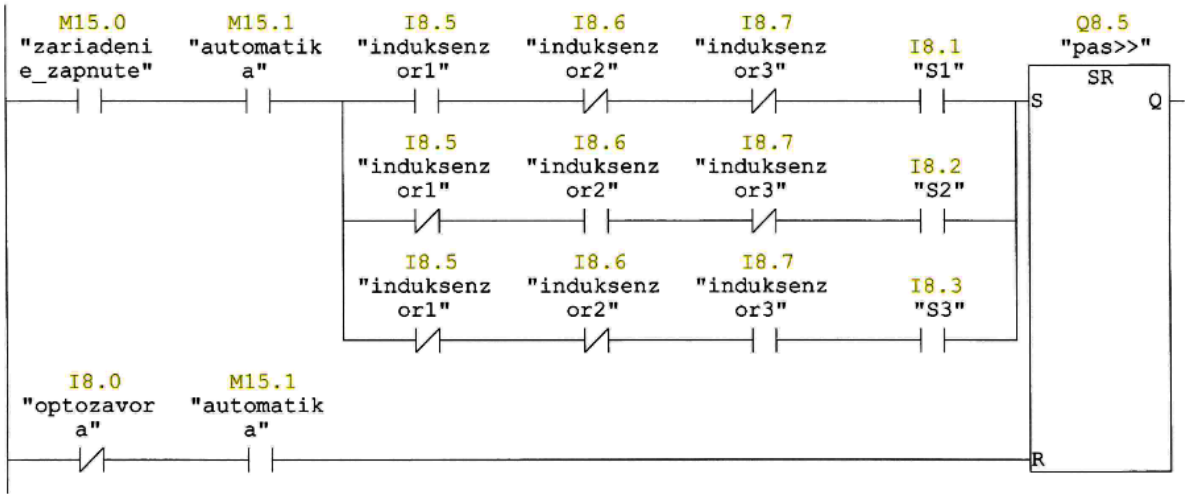
Network: 2



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
```

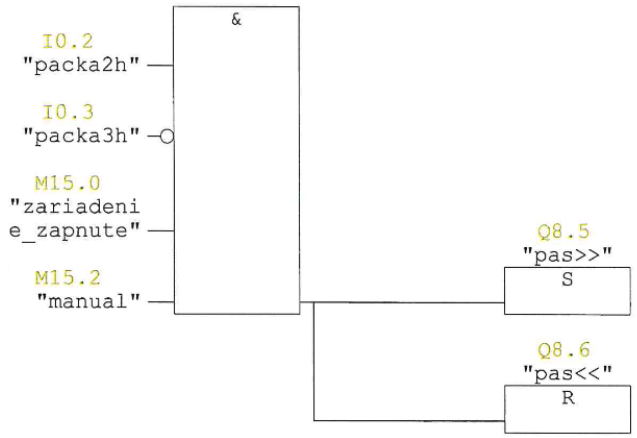
Network: 4

```
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
```

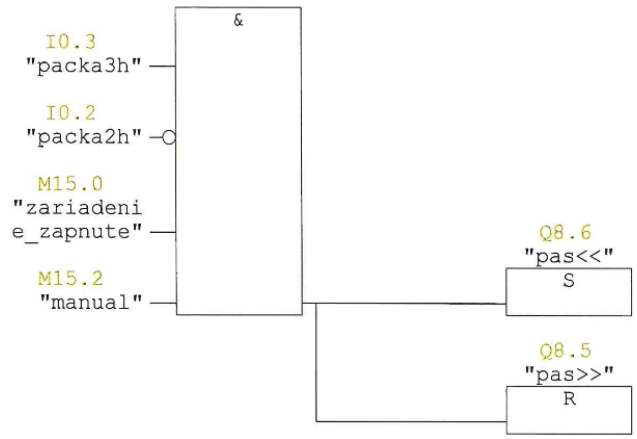
FC1633

Block: FC1633 as **FBD**

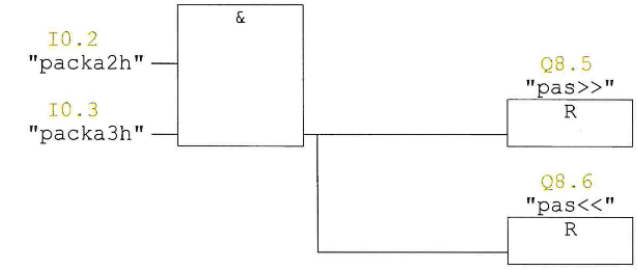
Network: 1



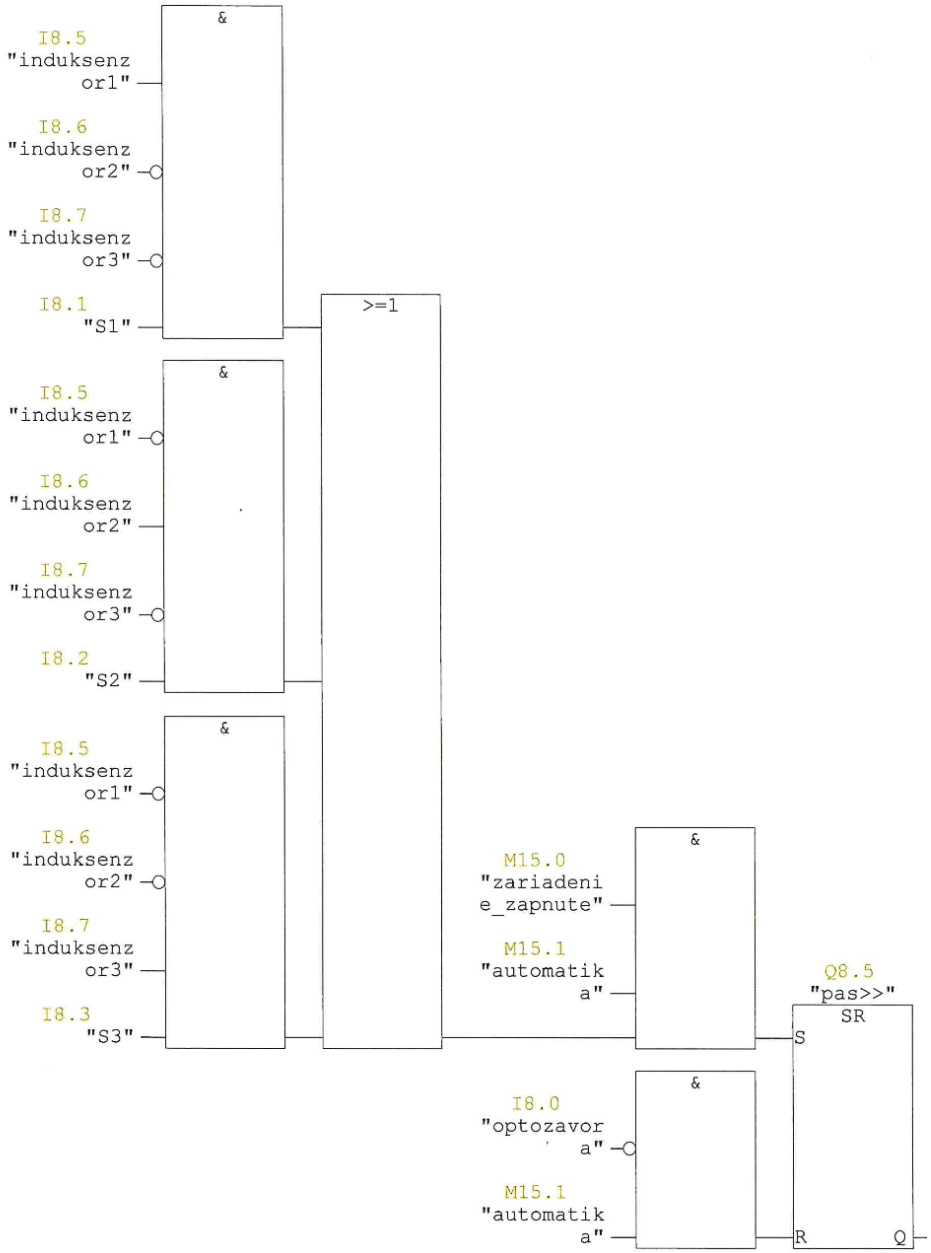
Network: 2



Network: 3



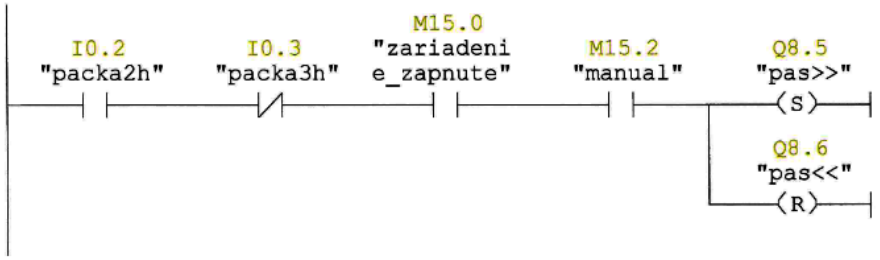
Network: 4



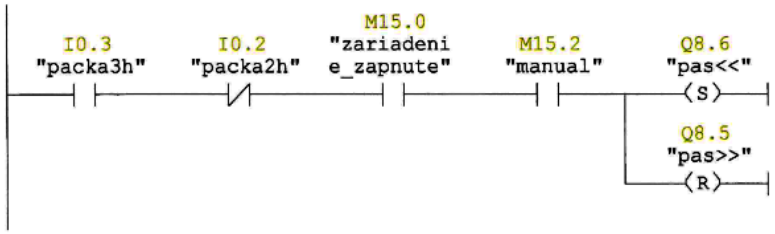
FC164

Block: FC164 as **Ladder diagram**

Network: 1

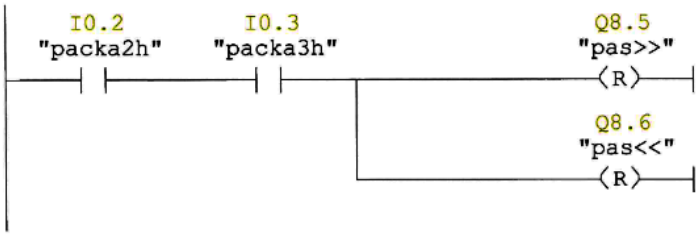


Network: 2

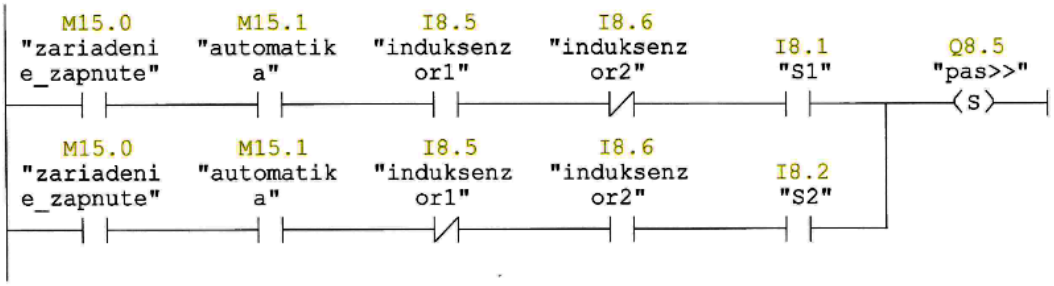


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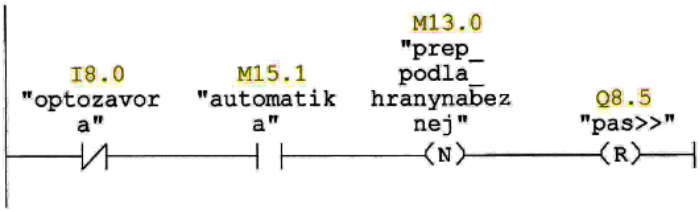
Network: 3



Network: 4



Network: 5



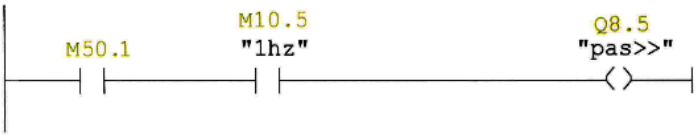
FC200

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

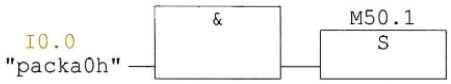
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```
      AN    "packa0h"   I0.0
      R     M     50.1
```

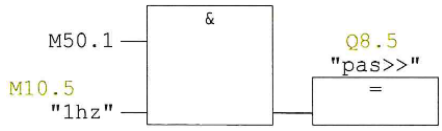
FC200

Block: FC200 as **FBD**

Network: 1



Network: 2



Network: 3

