

```
1  FUNCTION_BLOCK i2c_single EXTENDS i2c
2  VAR_INPUT
3      DATAOUT : ARRAY [ 0 .. 40 ] OF BYTE ;
4      REGNUM_IN : INT ;
5      REG_IN_START : BYTE ;
6      REGNUM_OUT : INT ;
7      REG_OUT_START : BYTE ;
8  END_VAR
9  VAR_OUTPUT
10     DATAIN : ARRAY [ 0 .. 40 ] OF BYTE ;
11 END_VAR
12 VAR
13 END_VAR
14
```

```
1  SUPER ^ ( ) ;
2
3  CASE _iState OF
4  0 :
5      IF usiAddress = 0 THEN
6          usiAddress := 16#42 ;
7      END_IF
8
9      IF init ( ) THEN
10         _iState := 10 ;
11     END_IF
12
13 END_CASE
14
```