

# **Operating instructions**

**for the SPS module of the PSE3xxDP**

Name of SPS program: Halstrup\_PSE3xxDP\_Kunde

This program contains 3 modules:

FB2 = read parameters

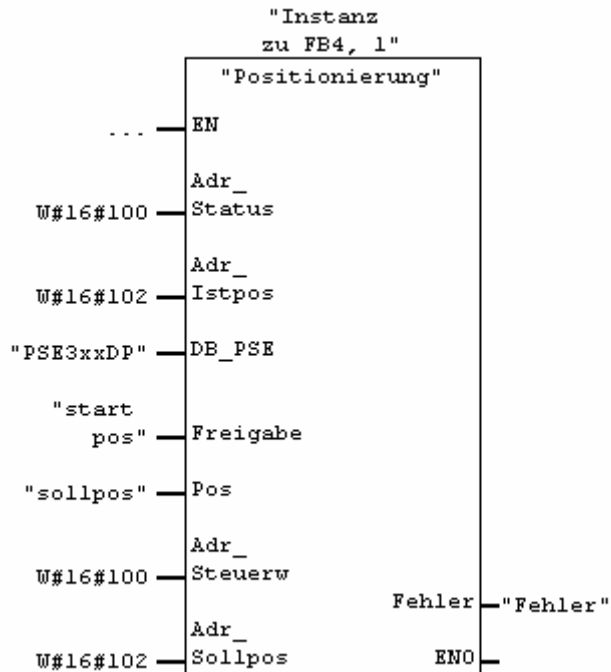
FB3 = write parameters

FB4 = positioning module for customers

## Positioning module

FB4 = positioning module for customers

An example of how to connect the module is given in FC2 Network 3.



Adr\_Status: Indicate projected address of status byte in HEX format

Adr\_Istpos: Indicate projected address of actual position in HEX format

DB\_PSE: Establish connection using a data module in accordance with the DB50  
"PSE3xxDP"

Freigabe: Enable bit for positioning / unit may move to a variety of positions as long as enable is active.

Pos: Specify target position

Adr\_Steuern: Indicate projected address of command byte in HEX format

Adr\_Sollpos: Indicate projected address of target position in HEX format

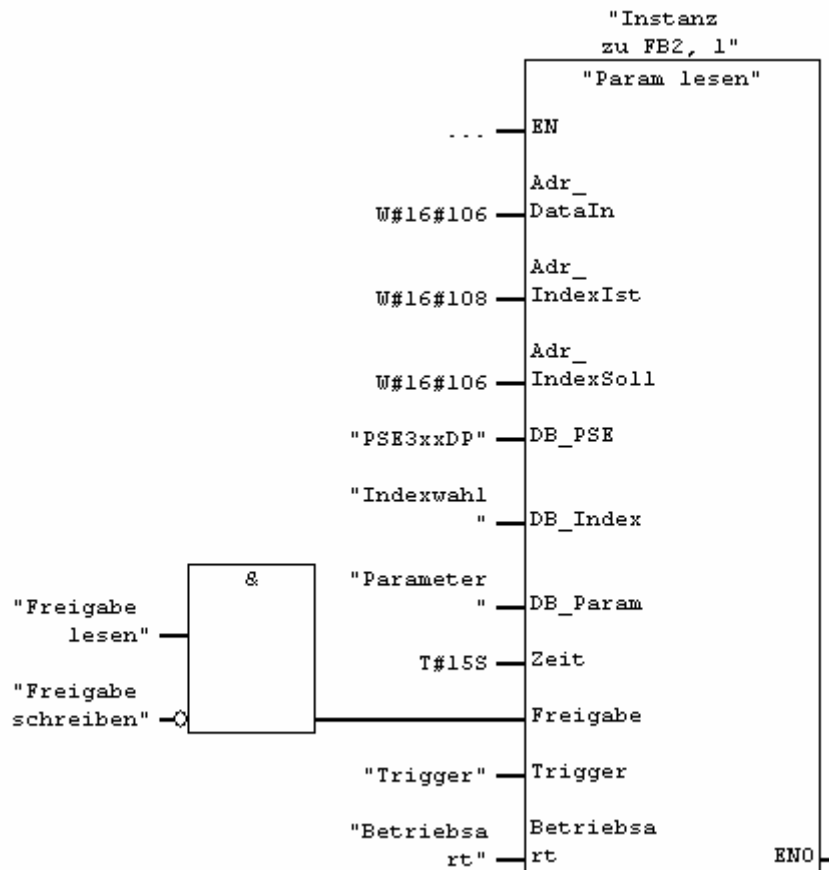
Fehler: Collective error message, see status byte

Important: The data module connected at the "DB\_PSE" input must absolutely follow the format of the DB50.

## Read parameters

FB2 = read parameters

An example of how to connect the module is given in FC2 Network 1.



- Adr\_DataIn: Indicate projected Data In address in HEX format  
Adr\_IndexIst: Indicate projected Actual Index address in HEX format  
Adr\_IndexSoll: Indicate projected Target Index address in HEX format  
DB\_PSE: Establish connection using a data module in accordance with the DB50 "PSE3xxDP"  
DB\_Index: Establish connection using a data module in accordance with the DB 60 "Index Selection"  
DB\_Param: Establish connection using a data module in accordance with the DB61 "Parameters"  
Zeit: Parameter update interval (cyclical readout)  
Freigabe: Enable for reading data  
Trigger: Trigger signal used when timed control is undesirable  
Betriebsart: 0 = timed readout, 1 = trigger signal for readout

The enable for reading data must be locked when the enable for writing data is unlocked, as reading and writing cannot take place simultaneously.

#### DB 60 "Index Selection":

This is where index numbers are indicated for all parameters to be read out. Index numbers are to be entered in HEX format. No more than 47 index numbers may be entered. Index number B#16#FF, which signals the end of the parameters, should be entered in the line following the last index number to be read out.

Example:

B#16#5  
B#16#A  
B#16#FF

In this example, the parameters read out are those with index numbers 5 and 10.

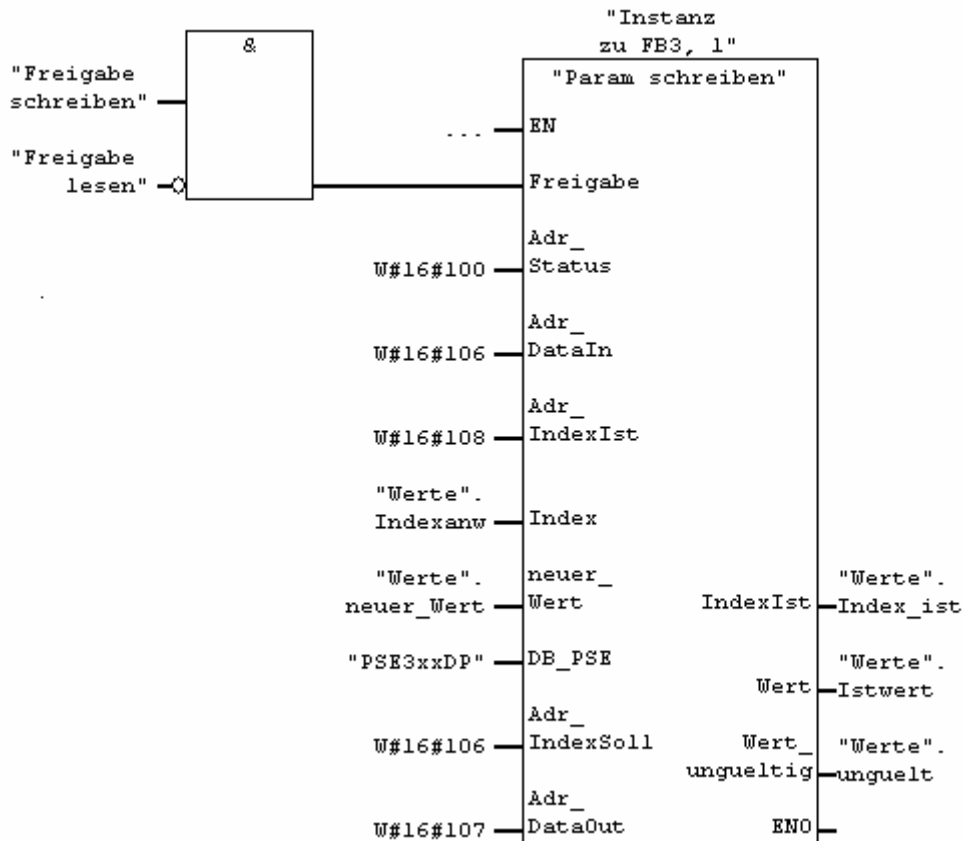
#### DB61 "Parameters":

This displays the values for the parameters selected in DB60 ("Index Selection"). The only parameters updated are those corresponding to an index number selected in DB60. All other parameters retain their most recent value.

## Write parameters

FB3 = write parameters

An example of how to connect the module is given in FC2 Network 2.



- Freigabe:** Enable for writing data  
**Adr\_Status:** Indicate projected address of status byte in HEX format  
**Adr\_DataIn:** Indicate projected Data In address in HEX format  
**Adr\_IndexIst:** Indicate projected Actual Index address in HEX format  
**Index:** Index number selection for the parameter to be written.  
**neuer\_Wert:** New parameter value  
**DB\_PSE:** Establish connection using a data module in accordance with the DB50 "PSE3xxDP"  
**Adr\_IndexSoll:** Indicate projected Target Index address in HEX format  
**Adr\_DataOut:** Indicate projected Data Out address in HEX format  
  
**IndexIst:** Returns the index number that has been set.  
**Istwert:** Returns the parameter value  
**Wert\_ungueult:** Invalid value

The enable for writing data must be locked when the enable for reading data is unlocked, as reading and writing cannot take place simultaneously.

*Table of 'position' variables:*

This table of variables provides another overview of the 3 modules (positioning, read parameters and write parameters) and how they function.