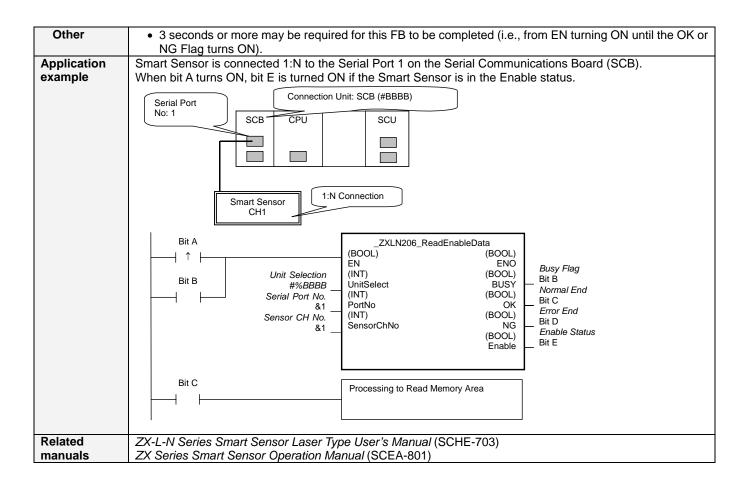
# Read Enable Data \_ZXLN206\_ReadEnableData

| Symbol  Start Trigger  ZXLN206_ReadEnableData (BOOL)  (BOOL)   |  |  |  |  |  |
|--|--|--|--|--|--|
| Busy Flag Unit Selection Serial Port No. Sensor CH No.  Sensor CH No.  Sensor CH No.  Busy Flag Unit Select (INT) (BOOL) PortNo (INT) (BOOL) SensorChNo  Busy Flag Normal End (INT) (BOOL) SensorChNo  Busy Flag Normal End (INT) SensorChNo  Error End ENO (BOOL) SensorChNo  Error End Enable Status   |  |  |  |  |  |
| File name Lib\FBL\omronlib\LaserSensor\ZXLN\_ZXLN206_ReadEnableData10.cxf  |  |  |  |  |  |
| Applicable models  Smart Sensor  CPU Unit  CS1*-CPU**H Unit version 3.0 or higher  CJ1*-CPU**H Unit version 3.0 or higher  |  |  |  |  |  |
| CJ1M-CPU** Unit version 3.0 or higher CP1H CP1L (except 10 points CPU)  Serial CS1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher  | 1.2 or higher  |  |  |  |  |
| Units/Boards   |  |  |  |  |  |
| CX-Programmer Version 5.0 or higher  |  |  |  |  |  |
| External Connections  oCan be used for 1:N connections in the controller configuration of the sensor side. oCommunications must be within one network and cannot cross to another network.  □Communication Settings The communication settings of the serial port (Serial Gateway) must be the same as those of Sensor.  | of the Smart   |  |  |  |  |
| <ul> <li>The communications settings of the specified serial port can be set to the default Smart Se (the factory shipment value) using the Set Communications Port (_ZXL600_SetComm) function and the other Smart Sensor settings using the Set Serial Gateway Mode (_SCx604_SetPointunction block.</li> <li>■CPU Unit Settings         PC System Setup: Shared Settings for Communications Instructions in FBs CPU         •Communications Instruction Response Timeout Time (default: 2 s), 5 s or more is recomme •Number of retries (default: 0)</li> <li>■Shared Resources         •Communications ports (Internal logical ports)</li> </ul> | ction block,<br>rtGATEWAY)   |  |  |  |  |
| Function When the Start Trigger turns ON, if the Smart Sensor connected to the Serial Port specific  | cified by the  |  |  |  |  |
| description Connection unit, Serial port No and Sensor CH No. is in the ENABLE status is checked.  |  |  |  |  |  |
| •This FB is processed over multiple cycles. The BUSY output variable can be used to chec FB is being processed.  •OK or NG will be turned ON only for one cycle after processing is completed. Use these for the end of the FB processing.  Time Chart  Start Trigger  ON OFF  Busy Flag  ON OFF   |  |  |  |  |  |
| Normal End (OK) or ON Error End (NG) OFF  EnableStatus  •When this FB is started, the output parameters are cleared.   |  |  |  |  |  |
| See the output parameters when the OK flag turns ON.   | DI IO'.  |  |  |  |  |
| <b>EN input</b> Connect EN to an OR between an upwardly differentiated condition for the <i>Start Trigger</i> and the from the FB as above.  | BUSY output  |  |  |  |  |
|  | <ul> <li>Always use an upwardly differentiated condition for EN.</li> <li>If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.</li> </ul> |  |  |  |  |
|  |  |  |  |  |  |



# ■ Variable Tables

**Input Variables** 

| Name            | Variable name | Data type | Default | Range    | Description   |
|-----------------|---------------|-----------|---------|----------|---|
| EN              | EN            | BOOL      |         |          | 1 (ON): FB started.<br>0 (OFF): FB not started.   |
| Unit selection  | UnitSelect    | INT       | &0      | As right | Specify the Unit and the serial port.   |
| Serial Port No. | PortNo        | INT       | &1      | &1 to &2 | Only serial port 2 of CP1H/CP1L M-type CPU unit is possible to use this FB.  Connected to CPU Unit Unit selection #FFFF Serial port No. Not accessed. (CP1H/CP1L-M: Serial Port2 CP1L-L14/20: Serial Port1)  Connected to Serial Communication Board(SCB) Unit selection #BBBB Serial port No. &1: Serial Port 1 &2: Serial Port 2  Connected to Serial Communication Unit(SCU) Unit selection SCU Unit No. (&0 to &15) Serial port No. &1: Serial Port 1 |
| Sensor CH No.   | SensorChNo    | INT       | &1      | &1 to &5 | Specify the CH No. of the connecting sensor. e.g.: &2 in the case of CH2.   |

**Output Variables** 

| Name              | Variable name | Data type | Range | Description  |
|-------------------|---------------|-----------|-------|--|
| ENO               | ENO           | BOOL      |       | 1 (ON): FB processed normally.                               |
| (May be omitted.) |               |           |       | 0 (OFF): FB not processed or ended in an error.              |
| Busy Flag         | BUSY          | BOOL      |       | Automatically turns OFF when processing is completed.        |
| Normal end        | OK            | BOOL      |       | Turns ON for one cycle when processing ends normally.        |
| Error end         | NG            | BOOL      |       | Turns ON for one cycle when processing ends in an error.     |
| Enable status     | Enable        | BOOL      |       | Outputs the Enable status. &1: Enable lit &0: Enable not lit |

## **Internal Variables**

Internal variables are not output from the FB.

If the NG Flag from the FB turns ON, the following internal variables can be monitored to obtain information on the error.

| Name       | Variable name | Data type | Range | Description                                      |
|------------|---------------|-----------|-------|--|
| Error code | ErrorCode     | WORD      |       | The results information from the Smart Sensor is |
|            |               |           |       | output to the Error Code.                        |

### **Error Code Details**

| Code  | Contents        | Meaning  |
|-------|-----------------|--|
| #0000 | Normal end      |  |
| #2203 | Operation error | The value displayed on the main digital display is read when such as an incident level error occurs. |
| #2204 | Operation error | The sensor's operation mode is not in the RUN mode.  |

#### **Version History**

| Version | Date     | Contents            |  |
|---------|----------|---------------------|--|
| 1.00    | 2005.12. | Original production |  |

#### Note

This manual is a reference that explains the function block functions.

It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.