| -206 Read Enable Data: _ZXL206_ReadEnableData | |
|---|--|
|---|--|

| Basic function | Checks if the Smart Sensor is currently in enable status. | | | | | |
|------------------------------------|--|--|--|--|--|--|
| Symbol | Chart Minner | | | | | |
| - | Start trigger | _ZXL206_ReadEnableData (BOOL) (BOOL) | | | | |
| | | EN ENO | | | | |
| | Busy Flag l | Jnit selection – UnitSelect BUSY | | | | |
| | ⊢ → s | erial Port No. – (INT) (BOOL) – Normal end | | | | |
| | | (BOOL) Error end | | | | |
| | | (BOOL) Fachla status | | | | |
| | | Enable | | | | |
| File name | Lib\EBL\omronlib\Laser | Sensor/ZXI \ ZXI 206 ReadEnableData10 cvf | | | | |
| Applicable | Laser Sensor | ZX-LDA-N | | | | |
| models | | | | | | |
| | CPU Unit | CS1*-CPU**H Unit version 3.0 or higher | | | | |
| | | CJ1*-CPU**H Unit version 3.0 or higher | | | | |
| | | CD1M-CPU ^{TT} Unit Version 3.0 or higher | | | | |
| | | CP1L (except 10 points CPU) | | | | |
| | Serial | CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher | | | | |
| | Communications | CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher | | | | |
| | Units/Boards | | | | | |
| Conditions | CX-Programmer | Version 5.0 or higher | | | | |
| for usage | Can be used only for | ar 1:1 connections | | | | |
| lei uougo | (FB " ZXLN***" car | be used for 1:N connections) | | | | |
| | Communications m | ust be within one network and cannot cross to another network. | | | | |
| | Communications Setting | gs | | | | |
| | The communications | settings of the serial port must be the same as those of the Laser Sensor. | | | | |
| | The communication | is settings of the specified serial port can be set to the default Laser Sensor settings | | | | |
| | using the Set Comr | nunications Port (_ZXL600_SetComm) function block, and the other Laser Sensor | | | | |
| | CPU Unit Settings | CPU Unit Settings | | | | |
| | PLC Setup: Shared S | ettings for Communications Instructions in FBs | | | | |
| | Communications Instruction Response Timeout Time (default: 2 s) 5 s recommended | | | | | |
| | Number of retries (default: 0) | | | | | |
| | Shared Resources | | | | | |
| Function | Communications po When the Start Trigger t | ons (internal logical pons) | | | | |
| description | Connection unit and Serial port No. is checked to see if it is enabled. | | | | | |
| FB | This FB is processe | ed over multiple cycles. The BUSY output variable can be used to check whether the | | | | |
| precautions | FB is being processed. | | | | | |
| | • OK or NG will be turned ON only for one cycle after processing is completed. Use these flags to detect | | | | | |
| | the end of the FB processing. | | | | | |
| | Start Trigger | ON 🗖 | | | | |
| | | OFF | | | | |
| | Busy Flag | ON OFF | | | | |
| | | | | | | |
| | Normal End (OK) or | ON 🗖 | | | | |
| | Error End (NG) | OFF | | | | |
| | Enable Data | | | | | |
| | • When this FB is sta | rted, the output parameters are cleared. | | | | |
| | See the output para | ameters when the OK flag turns ON. | | | | |
| condition | output from the FB. | | | | | |
| Restrictions Input variables | Always use an upwardly differentiated condition for EN. If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed. | | | | | |
| Output | This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable | | | | | |
| variables | to the EN input variable to ensure that the FB is processed to completion (see <i>Symbol</i>). • Do not turn the BUSY output variable ON or OFF outside the FB | | | | | |
| Other | Up to 3 seconds ma | ay be required for this FB to be completed (i.e., from EN turning ON until the OK or | | | | |
| | I NG Flag turns ON). | | | | | |



Variable Tables Input Variables

| Name | Variable name | Data type | Default | Range | Description |
|-----------------|---------------|-----------|---------|-----------|--|
| EN | EN | BOOL | | | 1 (ON): FB started. |
| | | | | | 0 (OFF): FB not started. |
| Unit selection | UnitSelect | INT | &0 | At 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 |
| | | | | | CPIL-L14/20: Serial Porti) |
| | | | | | 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 |
| | | | | | &2: Serial Port 2 |
| | | | | | |

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 (ON): Enable lit |
| | | | | 0 (OFF): 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. |
| | | | | See below. |

Error Code Details

| Code | Contents | Meaning |
|-------|-----------------|--|
| #0000 | Normal end | |
| #2203 | Operation error | The value displayed on the main digital display is read when an error has occurred, e.g., an incident level error. |
| #2204 | Operation error | The Sensor is not in RUN mode. |

Version History

| Version | Date | Contents |
|---------|---------|---------------------|
| 1.00 | 2004.6. | 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.