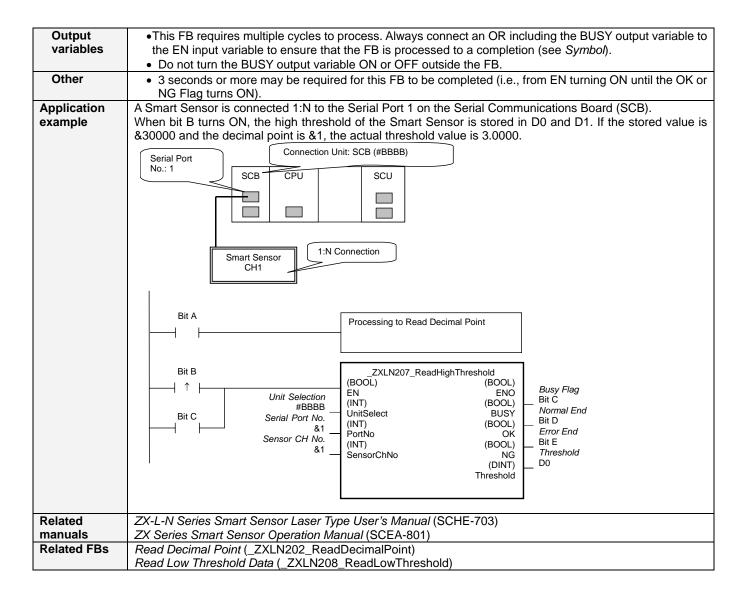
Read High Threshold: \_ZXLN207\_ReadHighThreshold

· ·					
Basic function	Reads the high threshold value from the Smart Sensor.				
Symbol	Start Trigger				
Fil	LibbEDIA anno dibble and Company TVLNN TVLN 1007. Decad Libb Through a 1440 and				
File name	Lib\FBL\omronlib\LaserSensor\ZXLN\_ZXLN207_ReadHighThreshold10.cxf  Smart Sensor				
Applicable models	Smart Sensor ZA-LDA-N				
inodeis	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  CS1*-CPU**H Unit version 3.0 or higher CP1H CP1L (except 10 points CPU)				
	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	<ul> <li>External Connections</li> <li>Can be used for 1:N connections in the controller configuration of the sensor side.</li> <li>Communications must be within one network and cannot cross to another network.</li> <li>Communication Settings</li> <li>The communication settings of the serial port (Serial Gateway) must be the same as those of the Smart Sensor.</li> <li>The communications settings of the specified serial port can be set to the default Smart Sensor settings (the factory shipment value) using the Set Communications Port (_ZXL600_SetComm) function block, and the other Smart Sensor settings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY) function block.</li> <li>CPU Unit Settings</li> <li>PC System Setup: Shared Settings for Communications Instructions in FBs.</li> <li>Communications Instruction Response Timeout Time (default: 2 s), 5 s or more is recommended.</li> <li>Number of retries (default: 0)</li> <li>Shared Resources</li> <li>Communications ports (Internal logical ports)</li> <li>When the Start Trigger turns ON, the high threshold value is read for the Smart Sensor connected to the</li> </ul>				
description	Serial Port specified by the Connection unit, Serial port No and Sensor CH No.  The threshold data read with this FB does not include the decimal point position.  Use the Read Decimal Point FB (_ZXLN202_ReadDecimalPoint) to read the decimal point.				
FB	•This FB is processed 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 det 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  Threshold				
	When this FB is started, the output parameters are cleared.  See the output parameters when the OK flag turns ON.				
EN input	Connect EN to an OR between an upwardly differentiated condition for the Start Trigger and the BUSY output				
condition	from the FB as above.				
Restrictions	Always use an upwardly differentiated condition for EN.				
Input	If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.				
variables					



# ■ 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	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** 

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.
Threshold	Threshold	DINT	-19999 to 59999	Outputs the value of the high threshold.

#### **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 setting is incorrect. Refer to the <i>ZX Series Smart Sensor Operation Manual</i> for the setting error condition of such as thresholds or hysteresis width.
#2204	Operation error	The sensor's operation mode is not in the RUN mode.

## **Version History**

version rustory			
	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.