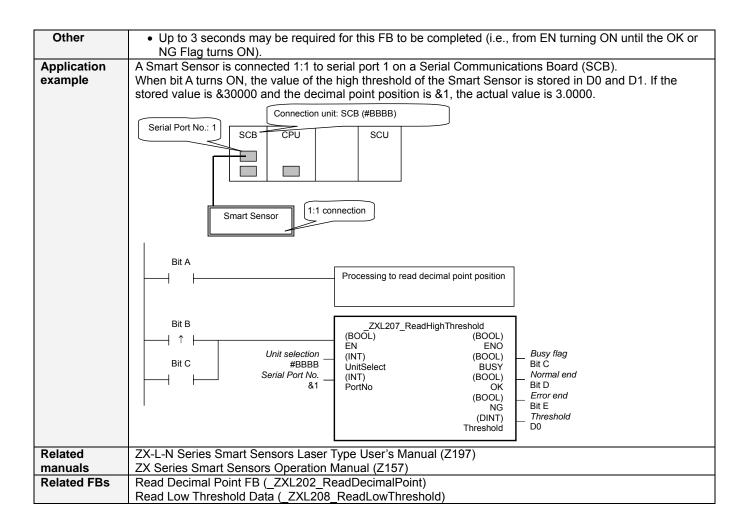
Read High Threshold: _ZXL207_ReadHighThreshold

Basic function	Reads the high threshold value from the Smart Sensor.					
Symbol	Busy Flag	Unit selection — erial Port No. —	_ZXL207_ReadHighThreshold (BOOL) EN			
File name	Lib\FBL\omronlib\Laser	Sensor\ZXL\	ZXL207 ReadHighThreshold10.cxf			
Applicable models						
		CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H CP1L (except 10 points CPU)				
	Serial Communications Units/Boards CX Programmer	CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher Version 5.0 or higher				
Conditions	CX-Programmer External Connections	ve181011 3.U	o or myncl			
for usage	 External Connections Can be used only for 1:1 connections. (FB "_ZXLN***" can be used for 1:N connections) Communications must be within one network and cannot cross to another network. Communications Settings 					
	The communications settings of the serial port must be the same as those of the Laser Sensor. • The communications settings of the specified serial port can be set to the default Laser Sensor setting using the Set Communications Port (_ZXL600_SetComm) function block, and the other Laser Sensor settings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY) function block. CPU Unit Settings PLC Setup: Shared Settings for Communications Instructions in FBs • Communications Instruction Response Timeout Time (default: 2 s) 5 s recommended • Number of retries (default: 0) Shared Resources					
	Communications ports (internal logical ports)					
Function description	When the Start Trigger turns ON, the high threshold value is read from the Smart Sensor connected to the Serial Port specified by the <i>Connection unit</i> and <i>Serial port No</i> . The threshold data read with this FB does not include the decimal point position. Use the Read Decimal Point Position FB (_ZXL202_ReadDecimalPoint) to read the decimal point.					
• This FB is processed over multiple cycles. The BUSY output FB is being processed.			iple cycles. The BUSY output variable can be used to check whether the ly for one cycle after processing is completed. Use these flags to detect			
	Normal End (OK) or Error End (NG)	ON OFF				
	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					
Condition	output from the FB.	randle -1:00 ·	ntisted condition for CNI			
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 variables	 This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable 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. 					



■ 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.
					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 &2: Serial Port 2

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	Outputs the value of the high threshold.
			59999	

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	A setting is incorrect. Refer to the <i>Smart Sensor Operation Manual</i> for setting error conditions for thresholds, hystereses, and other parameters.		
#2204	Operation error	The Sensor is not in RUN mode.		

Version History

version instory			
	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.