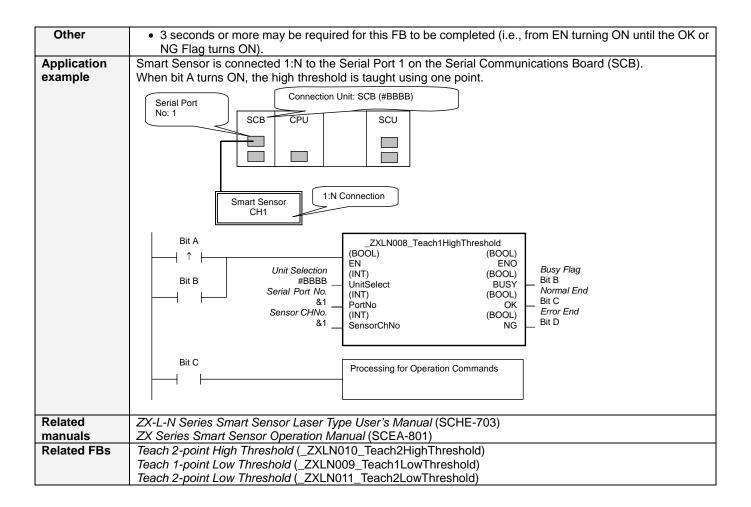
Teach 1-point High Threshold: _ZXLN008_Teach1HighThreshold

Basic function	Uses one point to teach the	he high threshold.					
Symbol	Seria	ZXLN008_Teach1HighThreshold (BOOL)					
File name	Lib\FBL\omronlib\LaserSe	ensor\ZXLN_ZXLN008_Teach1HighThreshold10.cxf					
Applicable		ZX-LDA-N					
models		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)					
	Communications Units/Boards	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					
0 ""		Version 5.0 or higher					
Conditions for usage	 ■ External Connections • Can be used for 1:N connections in the controller configuration of the sensor side. • Communications 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 the Smart Sensor. • 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. ■ CPU Unit Settings PC System Setup: Shared Settings for Communications Instructions in FBs. • Communications Instruction Response Timeout Time (default: 2 s), 5 s or more is recommended. • Number of retries (default: 0) ■ Shared Resources 						
Function description	Communications ports (Internal logical ports) When the Start Trigger turns ON, the high threshold is taught using 1 point for the Smart Sensor connected to the Serial Port specified by the Connection unit, Serial port No and Sensor CH No. This FB sets the intermediate value between the current value of the main digital display and the current low threshold value as the low threshold. An execution error will occur if the display value is not being held or if the low threshold is higher than the high threshold.						
FB precautions	FB is being processed OK or NG will be turn the end of the FB proc Time Chart Start Trigger OI Busy Flag OI Normal End (OK) or	ed ON only for one cycle after processing is completed. Use these flags to detect cessing. N FF N					
EN input		ween an upwardly differentiated condition for the <i>Start Trigger</i> and the BUSY output					
condition Restrictions	from the FB as above.	Ny differentiated condition for EN					
Input variables	If the input variables	dly differentiated condition for EN. are out of range, the ENO Flag will turn OFF and the FB will not be processed.					
Output variables	the EN input variable t	ple cycles to process. Always connect an OR including the BUSY output variable to to ensure that the FB is processed to a completion (see <i>Symbol</i>). Youtput 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.
11.4	11.00	15.17	0.0		,
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
					&2: Serial Port 2
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 fullusion				
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.

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.

if the 140 hag norm the 15 tame on, the fellowing internal variables can be monitored to obtain information on the circle				
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 conditions of teaching or the zero reset function.
#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.