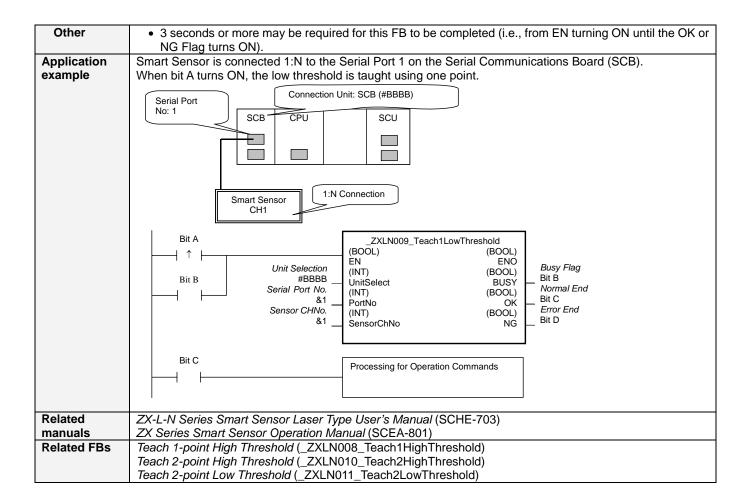
# Teach 1-point Low Threshold: \_ZXLN009\_Teach1LowThreshold

Basic (	Uses one point to teach the low threshold.					
Symbol	<u> </u>					
Symbol	Start Trigger  Busy Flag Unit Selection Serial Port No. Sensor CH No.		_ZXLN009_Teach1LowThreshold (BOOL) (BOOL) EN ENO (INT) (BOOL) UnitSelect BUSY (INT) (BOOL) PortNo OK (INT) (BOOL) SensorChNo NG	Busy Flag Normal End Error End		
File name	ih\FRI \omronlih\I acer	Sensor\ZXLI		d10 cvf		
	Smart Sensor	ZX-LDA-N	N_ZALINOUS_TEACHTLOWTHIESHOR	u IU.UAI		
models	Smart Sensor	ZX-LDA-N				
	CPU Unit	004* 0DU	**!! !!=:::			
	Serial	CJ1*-CPU* CJ1M-CPU CP1H CP1L (exce	ept 10 points CPU)	SCU41-V1 Unit Version 1.2 or higher		
	Communications	CS1W-SC	321-V1 and CS1W-SCB41-V1 Unit	t version 1.2 or nigher		
	Units/Boards	Vorsise F.C	) or bighor			
	CX-Programmer	Version 5.0	ou nigner			
	■External Connections			.,		
for usage			s in the controller configuration of the			
			one network and cannot cross to a	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)      Time (default: 2 s), 5 s or more is recommended.					
		erauit: 0)				
	■Shared Resources					
Franctica N	Communications ports (Internal logical ports)  When the Start Trigger turns ON, teaching of 1 low threshold starts for the Smart Sensor connected to the					
	When the Start Trigger turns ON, teaching of 1 low threshold starts 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.					
				if the low threshold is higher than the		
	high threshold.	Joodi II tilo (	alopiay value to not being field of	in the lew threehold to higher than the		
FB	•	d over multir	ole cycles. The BUSY output varial	ble can be used to check whether the		
precautions	FB is being processe		, 5.555 200 . Galpat Valla	and the state of t		
•			v for one cycle after processing is	completed. Use these flags to detect		
	the end of the FB pro		,,	1		
	Time Chart	- 1	1			
		ON OFF				
	· ·		<del></del>			
		ON OFF				
	· ·		<u> </u>			
	Normal End (OK) or	ON				
		ON OFF				
			FB execution completed.			
			·			
		etween an u	pwardly differentiated condition for	the Start Trigger and the BUSY output		
	from the FB as above.					
Restrictions			tiated condition for EN.			
Input	<ul> <li>If the input variables</li> </ul>	If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.				
variables						
Output				including the BUSY output variable to		
variables			hat the FB is processed to a comp	letion (see Symbol).		
	<ul> <li>Do not turn the BUS</li> </ul>	or output va	riable 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	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
	0011001011110		• • •		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.

#### **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 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.