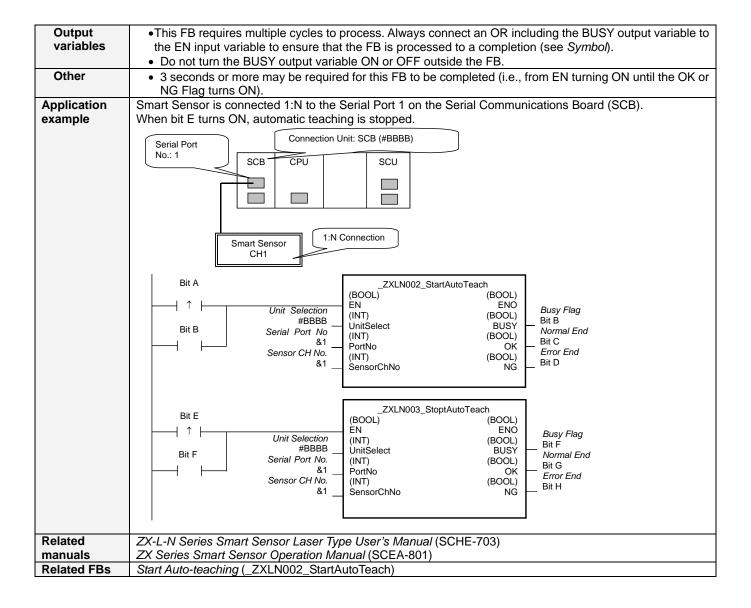
Stop Auto-teaching: _ZXLN003_StopAutoTeach

Dania	04					
Basic function	Stops the automatic teaching.					
Symbol	Se	ZXLN003_StartAutoTeach (BOOL)				
File name	Lib\FBL\omronlib\Laser	Sensor\ZXLN_ZXLN003_StopAutoTeach10.cxf				
Applicable	Smart Sensor	ZX-LDA-N				
models	CPU Unit Serial Communications	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) 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				
	Units/Boards					
Conditions	CX-Programmer ■External Connections	Version 5.0 or higher				
Function description	 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 Communications ports (Internal logical ports) When the Start Trigger turns ON, the automatic teaching stops for the Smart Sensor connected to the Serial Port specified by the Connection unit, Serial port No and Sensor CH No Use this FB together with the Start Auto-teaching FB (_ZXLN002_StartAutoTeach). The highest value achieved between starting and stopping teaching is set as the high threshold and the lowest value is set as the low threshold. Execute this FB after the Normal End flag for the Start Auto-teaching FB (_ZXLN002_StartAutoTeach) turns ON. 					
ED	An execution error will occur if the display value is not being held or if the resulting high threshold is lower than the low threshold.					
FB precautions	FB is being processe OK or NG will be tui the end of the FB pro Time Chart Start Trigger Busy Flag Normal End (OK) or Error End (NG)	one one cycle after processing is completed. Use these flags to detect occssing. ON OFF ON OFF ON OFF FB execution completed.				
EN input		etween an upwardly differentiated condition for the Start Trigger and the BUSY output				
Restrictions Input variables	from the FB as above. •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.					



■ 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
Canaar CI I Na	ConcorChNo	INIT	0.4	04 4- 05	Charify the CLINIC of the compacting
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.

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.
#2205	Operation error	The unregulated operation is being performed.

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.