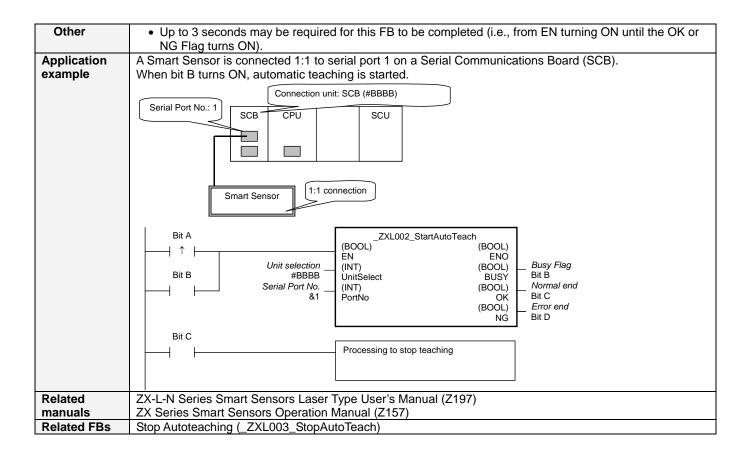
Start Autoteaching: _ZXL002_StartAutoTeach

Basic	Starts automatic teaching	n					
function	Otarto automatic teaching.						
Symbol	Start trigger		_ZXL002_StartAutoTeach	1			
			ZXL00Z_StatiAutoTeach (BOOL) (BOOL) EN ENO				
	UI Duran Flor	nit selection —	(INT) (BOOL)	─ Busy Flag			
	Busy Flag	rial Port No. —	UnitSelect BUSY (INT) (BOOL)	— Normal end			
	Sei	nai Fuit No.	PortNo OK (BOOL)				
			NG	Error end			
File name			_ZXL002_StartAutoTeach10.cxf				
Applicable models	Laser Sensor	ZX-LDA-N					
models	CPU Unit	CS1*-CPU	**H Unit version 3.0 or higher				
		CJ1*-CPU*	*H Unit version 3.0 or higher				
			J** Unit version 3.0 or higher				
		CP1H CP1L (exce	ept 10 points CPU)				
	Serial			SCU41-V1 Unit Version 1.2 or higher			
	Communications	CS1W-SCE	321-V1 and CS1W-SCB41-V1 Uni	t Version 1.2 or higher			
	Units/Boards CX-Programmer	Version 5.0) or higher				
Conditions	External Connections	VE131011 3.0	of Higher				
for usage	 Can be used only fo 						
	(FB "_ZXLN***" can		•	and the arm at the sulf			
	Communications Setting		one network and cannot cross to	another network.			
	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 settings						
	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				Smart Sensor connected to the Serial			
description	Port specified by the Connection unit and Serial port No. Use this FB together with the Stop Autoteaching FB (_ZXL003_StopAutoTeach).						
	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 the Stop Autoteaching FB (_ZXL003_StopAutoTeach) after						
	the Normal End flag for this FM turns ON. 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			ple cycles. The BUSY output varia	ble can be used to check whether the			
precautions	FB is being process		one cycle only after processing is	completed. Use these flags to detect			
	the end of FB proces		one eyere emy and proceeding to	dempretour des tribés mage le détect			
	Time Chart						
	Start Higger	ON OFF					
	Busy Flag	ON					
		OFF	<u> </u>				
	Normal End (OK) or	ON	\Box				
	Error End (NG)	OFF	<u> </u>				
		!	FB execution completed.				
EN input condition	Connect EN to an OR be output from the FB.	etween an u	pwardly differentiated condition fo	r the start trigger and the BUSY			
Restrictions		ardly differe	entiated condition for EN.				
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				R including the BUSY output variable			
variables			re that the FB is processed to comrable ON or OFF outside the FB.	npietion (see <i>Symbol</i>).			
	Do not turn the BUS	r output va	mable ON OFF Buiside 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.
					■ 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
					&1: Serial Port 1

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.
				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 teaching and the zero reset function.
#2204	Operation error	The Sensor is not in RUN mode.

Version History

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.