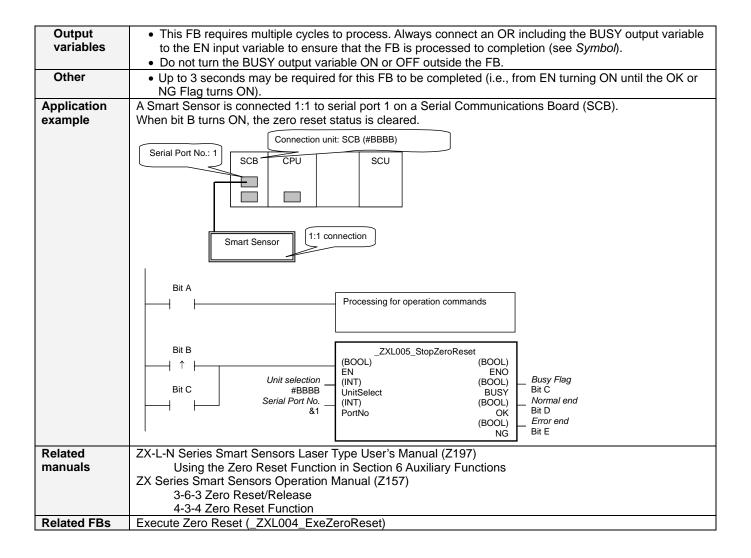
Release Zero Reset: _ZXL005_StopZeroReset

Basic function	Releases the zero reset status of the Smart Sensor.				
Symbol	Start trigger				
File name	Lib\FBL\omronlib\LaserSensor\ZXL_ZX005_StopZeroReset10.cxf				
Applicable	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 CJ1M-CPU** Unit version 3.0 or higher CP1H CP1L (except 10 points CPU) Serial Communications Units/Boards CX-Programmer CS1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 1.2 or higher CS1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher				
Conditions	External Connections				
Function description	 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 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) Other Set the Zero Reset Memory Setting to OFF. There is a limit on the number of times that the zero reset value can be written by executing a zero reset, just as there is for writing parameters (1 million writes). When the Start Trigger turns ON, the zero reset status is released for the Smart Sensor connected to the Serial Port specified by the Connection unit and Serial port No. Whether the zero reset value is written to EEPROM is determined by the Zero Reset Memory Setting, just as it is when the zero reset is used for the Smart Sensor. An execution error will occur if the Smart Sensor cannot execute the zero reset function, e.g., if the display value is not being held or the detection range would be exceeded. Additional Information: Section 6 Auxiliary Functions in the ZX-L-N Series Smart Sensors Laser Type User's 				
FB precautions	The FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed. OK or NB will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing. Time Chart Start Trigger ON OFF Normal End (OK) or ON Error End (NG) OFF FB execution completed.				
EN input	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY				
condition	output from the FB.				
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. 				



■ Variable Tables

Input Variables

Variable name	Data type	Default	Range	Description
EN	BOOL			1 (ON): FB started.
				0 (OFF): FB not started.
UnitSelect	INT	&0	At right.	Specify the Unit and the serial port.
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-14/20: 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
	EN UnitSelect	EN BOOL UnitSelect INT	EN BOOL UnitSelect INT &0	EN BOOL UnitSelect INT &0 At right.

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.