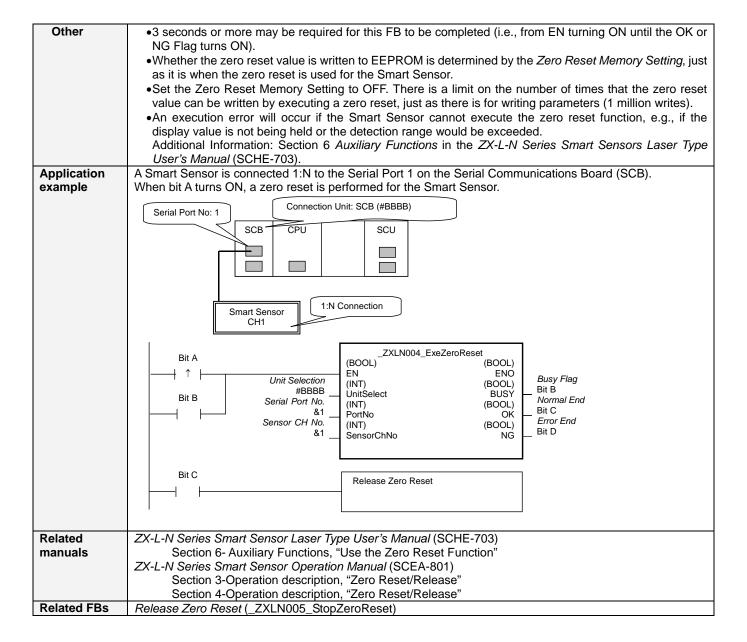
Execute Zero Reset: _ZXLN004_ExeZeroReset

Basic function	Executes a zero reset f	or the Smart Sensor.					
Symbol							
	Start Trigger	_ZXLN004_ExeZeroReset					
	│	(BOOL) (BOOL) EN ENO					
	Busy Flag	Init Colorina (INT) (BOOL) Busy Flog					
		(INT) (BOOL)					
	Se Se	Prial Port No. PortNo OK Normal End					
	Se	nsor CH No. (INT) (BOOL) Error End					
		- Garistonino inc					
File name	Lib\FBL\omronlib\Lasor	Sensor\ZXLN_ZXLN004_ExeZeroReset10.cxf					
Applicable	Smart 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	CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher					
	Communications	CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher					
	Units/Boards	g					
	CX-Programmer	Version 5.0 or higher					
Conditions	■External Connections	3					
for usage	 Can be used for 1:N 	connections in the controller configuration of the sensor side.					
	Communications mu	ust be within one network and cannot cross to another network.					
	■Communication Setti						
		s settings of the specified serial port can be set to the default Smart Sensor settings					
		nt value) using the Set Communications Port (_ZXL600_SetComm) function block,					
		t Sensor settings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY)					
	function block.						
	■CPU Unit Settings PC System Setup: Shared Settings for Communications Instructions in EPs						
	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)						
Function	When the Start Trigger turns ON, a zero reset is executed for the Smart Sensor connected to the Serial Port						
description	specified by the Connection unit, Serial port No. and Sensor CH No.						
FB .		d over multiple cycles. The BUSY output variable can be used to check whether the					
precautions	FB is being process						
		rned ON only for one cycle after processing is completed. Use these flags to detect					
	the end of the FB pr	ocessing.					
	Start Trigger	ON					
		OFF					
	Busy Flag	ON					
		OFF					
	Normal End (OK) or Error End (NG)	ON OFF					
	2.10. 2.10 (110)						
		FB execution completed.					
EN input	Connect EN to an OR between an upwardly differentiated condition for the Start Trigger and the BUSY output						
condition	from the FB as above.						
Restrictions	Always use an upwardly differentiated condition for EN.						
Input variables	•If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.						
Output	•This FR requires mu	ultiple cycles to process. Always connect an OP including the RHSV output variable to					
variables	•This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to a completion (see <i>Symbol</i>).						
74.145.00		SY output variable ON or OFF outside the FB.					
	- +DO NOT WITH THE DOC	71 Output variable Off of Off Output the LD.					



■ 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 sensor. e.g.: &2 in the case of CH2.

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.