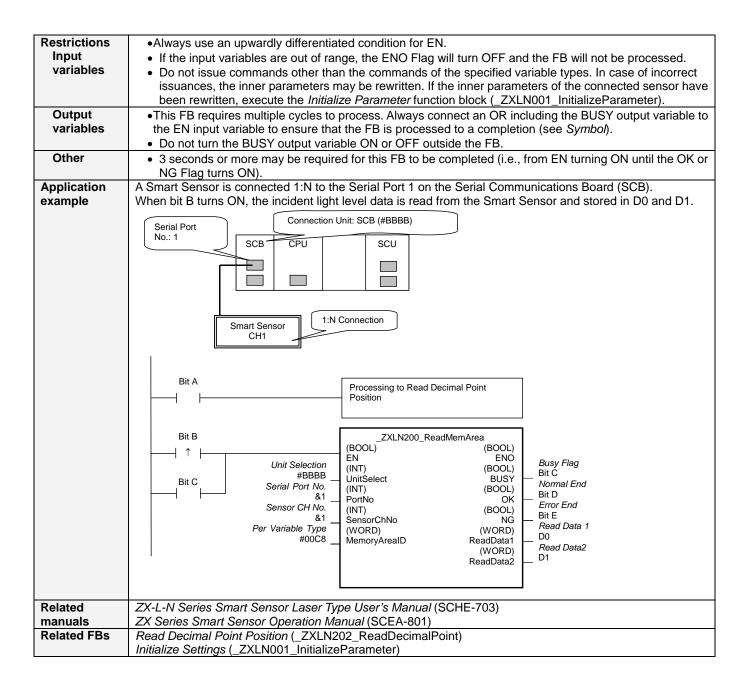
ZXLN Read Memory Area: _ZXLN200_ReadMemArea

Basic	Reads data in the variable area.			
function Symbol				
Symbol	Start Trigger		_ZXLN200_ReadMemArea	
			(BOOL) (BOOL)	
			EN ENO (INT) (BOOL) Dury Film	
	Busy Flag	Init Selection	UnitSelect BUSY BUSY BUSY BUSY BUSY BUSY BUSY BUSY	
	Se	erial Port No.	(INT) (BOOL) PortNo OK Normal End	
			(INT) (BOOL)	
	Se	nsor CH No.	SensorChNo NG Error End (WORD) (WORD)	
	V	ariable Type	MemoryAreaID ReadData1 Read Data 1	
			(WORD) ReadData2 Read Data 2	
File name	Lib\EBL\omronlib\Laser	Sensor\7XI	N_ZXLN200_ReadMemArea10.cxf	
Applicable	Smart Sensor	ZX-LDA-N		
models	Cinar Conton			
	CPU Unit	CS1*-CPU	J**H Unit version 3.0 or higher	
			**H Unit version 3.0 or higher	
		CJ1M-CPL	U** Unit version 3.0 or higher	
		CP1H		
			cept 10 points CPU)	
	Serial		U21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher	
	Communications	CS1W-SC	B21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher	
	Units/Boards CX-Programmer	Version 5.0	0 or highor	
Conditions	External Connections			
for usage			s in the controller configuration of the sensor side.	
			one network and cannot cross to another network.	
	Communication Setti			
			ne serial port (Serial Gateway) must be the same as those of the Smart	
	Sensor.			
		s settings of	the specified serial port can be set to the default Smart Sensor settings	
			ng the Set Communications Port (_ZXL600_SetComm) function block,	
	and the other Smart	Sensor sett	tings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY)	
	function block.			
	■CPU Unit Settings			
			gs for Communications Instructions in FBs.	
			sponse Timeout Time (default: 2 s), 5 s or more is recommended.	
	•Number of retries (d	efault: 0)		
	■Shared Resources			
Function	•Communications ports (Internal logical ports)			
Function description	When the <i>Start Trigger</i> turns ON, the specified variable area data is read from the Smart Sensor connected to the Serial Port specified by the <i>Connection unit</i> , <i>Serial port No</i> and <i>Sensor CH No</i> .			
description			t include the decimal point position.	
			tion FB (_ZXLN202_ReadDecimalPoint) to read the decimal point when	
	using this FB to read the main digital display.			
FB	•This FB is processed over multiple cycles. The BUSY output variable can be used to check whether the			
precautions	FB is being processed.			
	•OK or NG will be turned ON only for one cycle after processing is completed. Use these flags to detect			
	the end of the FB processing.			
	Time Chart			
	Start Trigger	ON OFF		
	Buoy Elec			
	Busy Flag	ON OFF		
	Normal End (OK) or	ON		
	Error End (NG)	OFF	J <u> </u>	
	Read Data	!		
			put parameters are cleared.	
EN input			n the OK flag turns ON. upwardly differentiated condition for the <i>Start Trigger</i> and the BUSY output	
condition	from the FB as above.	Stween an u	apmarary anterentiated contaition for the otart mayer and the boot output	



■ 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.
Per Variable Type	MemoryArealD	WORD		Not checked.	Specifies the command. Note that the operations are not guaranteed if a variable type not listed below is specified. Use only the specified variable types.

Classification of Variable Types

Data	Туре
Incident Light Level	#00C8
Resolution	#00CA
Control Output Status	#00CE
Enable Status	#00CF
Decimal Point Position	#00D3

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	ОК	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.
Read Data 1	ReadData1	WORD		See below.
Read Data 2	ReadData2	WORD		See below.

Read Data

	Read Data 1	Read Data 2
Incident Level	Outputs the sign of the incident light level. #0000: + #0100: -	Outputs the incident level in hexadecimal.
Resolution	Outputs the sign of the resolution. #0000: + #0100: -	Outputs the resolution in hexadecimal.
Control Output Status	Outputs the control output status. #0000: All outputs OFF #0100: LOW Output ON #0200: HIGH Output ON #0300: PASS Output ON #0400: Alarm Output ON	Outputs #0000 when reading the control output status.
Enable Status	Outputs the enable status. #0000: Enable lit #0100: Enable not lit	Outputs #0000 when reading the enable status.
Decimal Point Position	Outputs #0000 when reading the decimal point position.	Outputs the decimal point position of the value displayed on the main digital display. #0000: Leftmost position. #0001: 2nd digit from left #0002: 3rd digit from left #0003: 4th digit from left #0004: No decimal point displayed

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

0000 000			
Code	Contents	Meaning	
#0000	Normal end		
#1101	Variable Type Error	The variable type is incorrect.	
#2203	Operation error	The value displayed on the main digital display is read when such as an incident	
		level error occurs.	
#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.