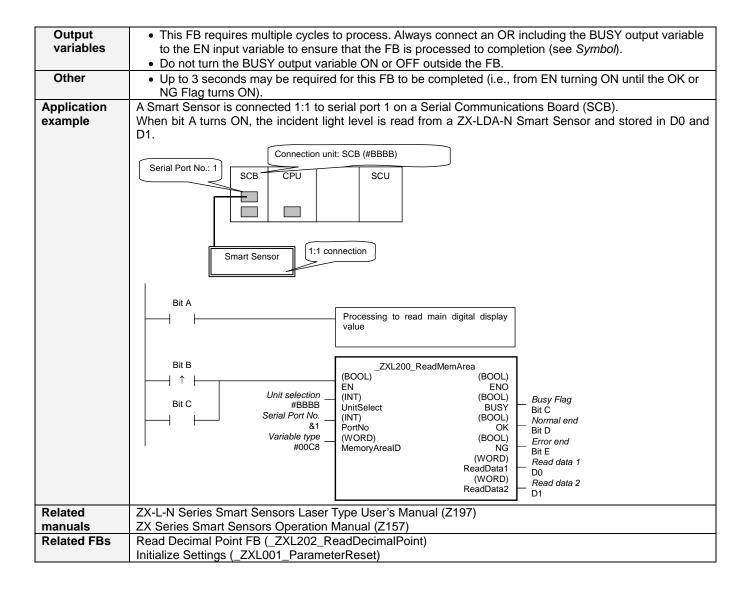
Read Memory Area: \_ZXL200\_ReadMemArea

Basic function	Reads data from the variable area.			
Symbol	Busy Flag	Jnit selection — erial Port No. — Variable type —	_ZXL200_ReadMemArea (BOOL)	
File name	Lih\CDL\amananlih\Laaan	C		
Applicable	Laser Sensor	ZX-LDA-N	\_Z\L\_Z\U_\_\Cad\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
models	Laser Gerisor	ZX-LDA-IV		
	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		U21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher B21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher	
	Units/Boards CX-Programmer	Version 5.0	) or higher	
Conditions	External Connections	ve191011 3.0	o or nighter	
for usage	<ul> <li>External Connections</li> <li>Can be used only for 1:1 connections.         (FB "_ZXLN***" can be used for 1:N connections)     </li> <li>Communications must be within one network and cannot cross to another network.</li> <li>Communications Settings</li> </ul>			
	<ul> <li>The communications settings of the serial port must be the same as those of the Laser Sensor.</li> <li>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.</li> <li>CPU Unit Settings PLC Setup: Shared Settings for Communications Instructions in FBs</li> <li>Communications Instruction Response Timeout Time (default: 2 s) 5 s recommended</li> <li>Number of retries (default: 0)</li> <li>Shared Resources</li> <li>Communications ports (internal logical ports)</li> </ul>			
Function description	When the Start Trigger 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> and <i>Serial port No</i> .  The data read with this FB does not include the decimal point position.  Use the Read Decimal Point Position FB (_ZXL202_ReadDecimalPoint) to read the decimal point when using this FB to read the main digital display.			
FB	This FB is processed.	ed over multi	iple cycles. The BUSY output variable can be used to check whether the	
precautions	FB is being proces  OK or NG will be to the end of the FB procestime Chart  Start Trigger	rned ON onl	ly for one cycle after processing is completed. Use these flags to detect	
	Busy Flag	ON OFF		
	Normal End (OK) or Error End (NG)	ON OFF		
	Read Data	!		
	See the output para	ameters whe	tput parameters are cleared. en the OK flag turns ON.	
EN input condition	Connect EN to an OR boutput from the FB.	etween an u	upwardly differentiated condition for the start trigger and the BUSY	
Restrictions		ardly differe	ntiated condition for EN.	
Input variables	<ul> <li>If the input variable</li> <li>Do not execute cor rewritten if this FB</li> </ul>	s are out of mands others used incor	range, the ENO Flag will turn OFF and the FB will not be processed. er than for the specified variable types. Internal parameters may be rectly. If internal parameters in the connected Sensor are rewritten by Settings (_ZXL001_InitializeParameter) 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
					&2: Serial Port 2
Variable type	ReadMemID	WORD		Not	Specify the command.
variable type	Readivieniib	WORD		checked.	Unexpected operation may result if a variable type not listed below is specified. Use only the specified variable types.

■ Variable Types

~~··· · , p				
Data	Туре			
Incident 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	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.
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.	Outputs the incident light level in
	#0000:+ #0100:-	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 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.

if the NOT lag from the LD 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	
#1101	Variable type error	The variable type is incorrect.
#2203	Operation error	The value displayed on the main digital display is read when an error has occurred, e.g., an incident level error.
#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.