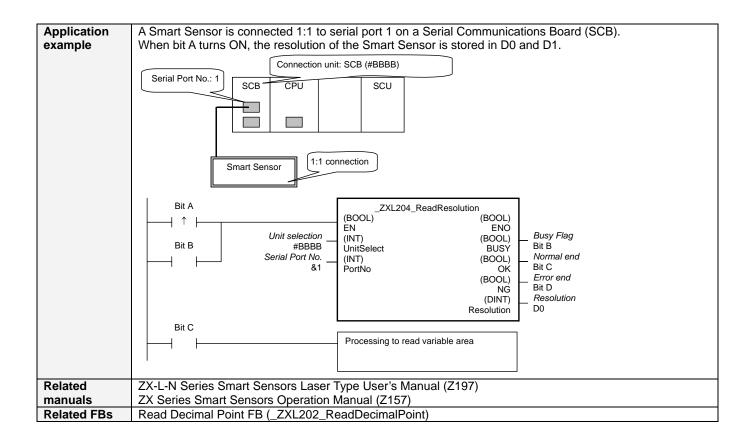
Read Resolution: \_ZXL204\_ReadResolution

Basic function	Reads the resolution for a Smart Sensor.			
Symbol	Start trigger			
File name	Lib\FBL\omronlib\LaserSensor\ZXL\_ZXL204_ReadResolution10.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  CS1*-CPU**H Unit version 3.0 or higher CP1H CP1L (except 10 points CPU)  CS1W-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			
Conditions	CX-Programmer Version 5.0 or higher External Connections			
for usage  Function description	<ul> <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         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> <li>When the Start Trigger turns ON, the current resolution is read for the Smart Sensor connected to the Serial</li> </ul>			
	Port specified by the Connection unit and Serial port No  Use the Read Decimal Point Position FB (_ZXL_ReadDecimalPoint.cxf) to read the decimal point.			
FB precautions	<ul> <li>This FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed.</li> <li>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</li></ul>			
	Normal End (OK) or ON Error End (NG) OFF  Resolution			
	When this FB is started, the output parameters are cleared. See the output parameters when the OK flag turns ON.			
EN input	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY			
condition Restrictions	output from the FB.  • 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 variables	<ul> <li>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 completion (see <i>Symbol</i>).</li> <li>Do not turn the BUSY output variable ON or OFF outside the FB.</li> </ul>			
Other	Up to 3 seconds may be required for this FB to be completed (i.e., from EN turning ON until the OK or NG Flag turns ON).			



## ■ 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 access ed.
					(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

**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.
Resolution	Resolution	DINT		Outputs the resolution.

## **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		Meaning	
#0000	Normal end		
#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** 

10.0.0.			
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.