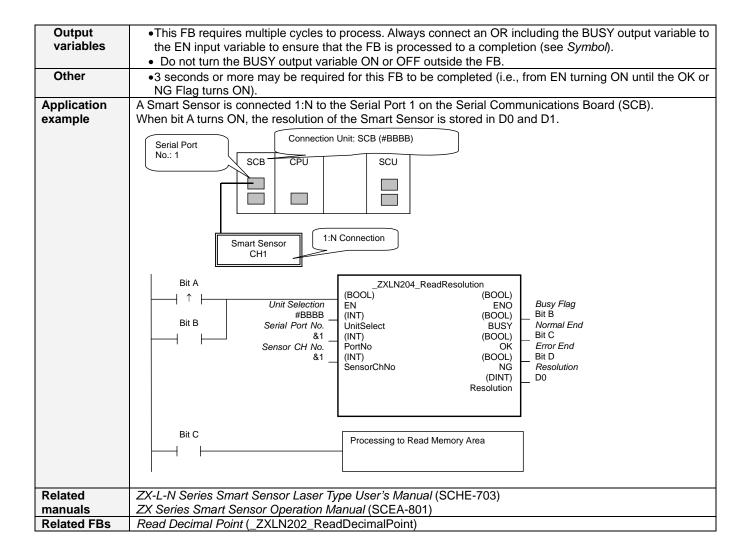
Read Resolution: _ZXLN204_ReadResolution

Basic	Reads the current resol	lution for the Smart Sensor.				
function						
Symbol	Start Trigger	_ZXLN204ReadResolution (BOOL) (BOOL)				
	 	ÈN ÉN ENÓ				
	Busy Flag L	Jnit Selection (INT) (BOOL) UnitSelect BUSY Busy Flag				
		(INT) (BOOL)				
		(INT) (BOOL)				
	Se	nsor CH No. SensorChNo NG Error End				
		(DINT) Resolution Resolution				
File name	Lib\FBL\omronlib\Laser	Sensor\ZXLN_ZXLN204_ReadResolution10.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					
0 1111	CX-Programmer	Version 5.0 or higher				
Conditions for usage	■External Connections					
ioi usage	Can be used for 1:N connections in the controller configuration of the sensor side.					
	■Communication Settin	ust be within one network and cannot cross to another network.				
		settings of the serial port (Serial Gateway) must be the same as those of the Smart				
	Sensor.	settings of the serial port (Serial Gateway) must be the same as those of the ornar				
		settings of the specified serial port can be set to the default Smart Sensor settings				
	(the factory shipmer	nt value) using the Set Communications Port (_ZXL600_SetComm) function block,				
	and the other Smart Sensor settings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY) function block.					
	■CPU Unit Settings	hared Settings for Communications Instructions in FBs				
		struction 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, the current resolution is read for the Smart Sensor connected to the Serial					
description	Port specified by the Connection unit, Serial port No. and Sensor CH No					
FB		Point FB (_ZXLN202_ReadDecimalPoint.cxf) to read the decimal point.				
precautions	FB is being process	d over multiple cycles. The BUSY output variable can be used to check whether the				
procuditorio		rned ON only for one cycle after processing is completed. Use these flags to detect				
	the end of the FB pr					
	Time Chart					
	Start Trigger	ON OFF				
	Busy Flag	ON				
	Busy Flag	OFF				
	Normal End (OK) or	ON OFF				
	Error End (NG)	OFF				
	Resolution					
	•When this ER is star	rted, the output parameters are cleared.				
		meters 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 output					
condition	from the FB as above.					
Restrictions	Always use an upwardly differentiated condition for EN.					
Input	•If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.					
variables						



■ 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-114/20: 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 1
Sensor CH No.	SensorChNo	INT	&1	&1 to &5	Specify the CH No. of the connecting sensor. Ex: &2 in the case of CH2.

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.

Error Code Details

Couc Dell	ood Details				
Code	Contents	Meaning			
#0000	Normal end				
#2203	Operation error	The value displayed on the main digital display is read value when such as an incident light error occurs.			
#2204	Operation error	The sensor's operation mode is not in the RUN mode.			

Version History

To to the to the total of the t				
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.