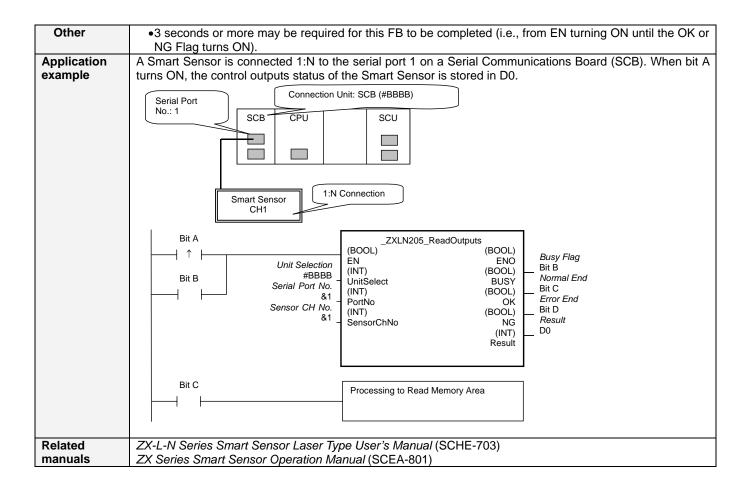
Read Control Outputs: _ZXLN205_ReadOutputs

Basic function	Reads the status of the	control outp	outs (High/Pass/Low).		
Symbol	Ser	nit Selection rial Port No ssor CH No	_ZXLN205_ReadOut (BOOL) EN (INT) UnitSelect (INT) PortNo (INT) SensorChNo	puts (BOOL) ENO (BOOL) BUSY (BOOL) OK (BOOL) NG (DINT) Result	Busy Flag Normal End Error End Result
File name	Lib\FBL\omronlib\Laser\$			outs10.cxf	
Applicable models	Smart Sensor CPU Unit		I**H Unit version 3.0 o		
	Serial	CJ1M-CPU CP1H CP1L (exc	**H Unit version 3.0 or J** Unit version 3.0 or ept 10 points CPU)	higher	SCU41-V1 Unit Version 1.2 or higher
	Communications Units/Boards CX-Programmer		B21-V1 and CS1W-SCE		
Conditions	■External Connections	. 0101011 0.0	o or riignor		
for usage	 Can be used for 1:N connections in the controller configuration of the sensor side. Communications must be within one network and cannot cross to another network. ■Communications Settings The communication settings of the serial port (Serial Gateway) must be the same as those of the Smart Sensor. 				
	(the factory shipmen and the other Smart function block. ■CPU Unit Settings PC System Setup: Sh •Communications Ins •Number of retries (de ■Shared Resources •Communications por	t value) usin Sensor setting pared Setting truction Res efault: 0)	ng the Set Communications using the Set Serial graphs for Communications is sponse Timeout Time (de logical ports)	ons Port (_2 of Gateway in Instructions efault: 2 s),	5 s or more is recommended.
Function description	When the Start Trigger turns ON, the status of the control outputs (High/Pass/Low) is read for the Smart Sensor connected to the Serial Port specified by the Connection unit, Serial port No. and Sensor CH No. The status of the control outputs (High/Pass/Low) can be confirmed by the result.				
FB precautions	FB is being processe OK or NG will be tur the end of the FB pro Time Chart Start Trigger Busy Flag	ed. ned ON onl		•	ble can be used to check whether the completed. Use these flags to detect
		ON OFF			
	●When this FB is start		but parameters are clear the OK flag turns ON.	red.	
EN input	Connect EN to an OR be			ondition for	the Start Trigger and the BUSY output
Restrictions Input variables	from the FB as above. •Always use an upwardly differentiated condition for EN. • If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.				
Output 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>). Do not turn the BUSY output variable ON or OFF outside the FB. 				



■ Variable Tables

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started.
11.26 1 6	11.30.1.4	15.17	0.0		0 (OFF): FB not started.
Unit selection	UnitSelect	INT	&0	As right	Specify the connection unit and the serial
Serial Port No.	PortNo	INT	&1	&1 to &2	Specify the Unit and the serial port.
					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
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.
Result	Result	INT		&0: All OFF
				&1: LOW output ON
				&2: HIGH output ON
				&3: PASS output ON

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	Read the main digital display 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

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.