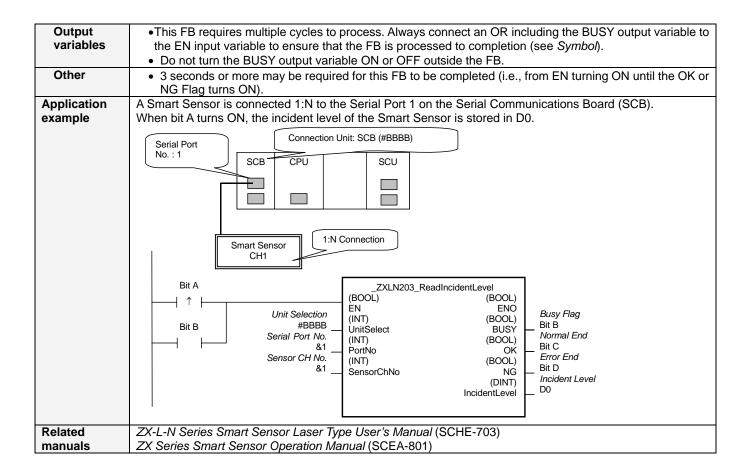
Read Incident Level: _ZXLN203_ReadIncidentLevel

Basic	Poods the incident love	I for a Sma	rt Concor	1			
function	Reads the incident level for a Smart Sensor.						
Symbol							
	Start Trigger		_ZXLN203_ReadIncidentLevel				
			(BOOL) (BOOL)				
			EN ENO (INT) (BOOL)	Duran Flore			
	Busy Flag Ur	nit Selection	ÙnitŚelect BUSÝ	Busy Flag			
	Ser	ial Port No	(INT) (BOOL) PortNo OK	Normal End			
			(INT) (BOOL)	Error End			
	Ser	nsor CH No	SensorChNo NG (DINT)	_ End End			
			IncidentLevel	Incident Level			
File name	Lib\FBL\omronlib\Laser	Sensor\7XI	 _N_ZXLN203_ReadIncidentLeve	- N10 exf			
Applicable	Smart Sensor	ZX-LDA-N		110.001			
models			•				
	CPU Unit	CS1*-CPI	J**H Unit version 3.0 or higher				
			J**H Unit version 3.0 or higher				
		CJ1M-CP	U** Unit version 3.0 or higher				
		CP1H					
			cept 10 points CPU)				
	Serial			W-SCU41-V1 Unit Version 1.2 or higher			
	Communications Units/Boards	CS1W-SC	CB21-V1 and CS1W-SCB41-V1 L	unit version 1.2 or nigher			
	CX-Programmer	Version 5	.0 or higher				
Conditions	■External Connections		.o or riigher				
for usage			ns in the controller configuration of	of the conser side			
Tor dougo			n one network and cannot cross to				
	■Communication Setting		Tone network and cannot cross to	o another network.			
			e serial port (Serial Gateway) m	ust be the same as those of the Smart			
	Sensor.	tungo or un	o condi port (condi cateway) in	dot be the same as those of the smart			
		settings of	the specified serial port can be se	et to the default Smart Sensor settings			
	•The communication settings of the specified serial port can be set to the default Smart Sensor settings (the factory shipment 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						
	PC System Setup: Shared Settings for Communications Instructions in FBs						
	•Communications Instruction Response Timeout Time (default: 2 s), 5 s or more is recommended.						
	•Number of retries (default: 0)						
	■Shared Resources						
Function	Communications ports (Internal logical ports) When the Start Trime at time ON, the incident level is read for the Smart Sangar connected to the Sarial Bart.						
description	When the Start Trigger turns ON, the incident level is read for the Smart Sensor connected to the Serial Port specified by the Connection unit, Serial port No and Sensor CH No.						
description							
FB	The Incident Level output variable is always output as an integer. The decimal point position is disregarded. •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 tu 	•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 pr	ocessing.					
	Time Chart						
	Start Trigger	ON OFF					
	Busy Flag	ON					
	Busy Flag ON OFF						
	Normal End (OK) or ON						
	Error End (NG) OFF						
	Incident Level						
	Miles this ED is started the system of the s						
	When this FB is started, the output parameters are cleared. See the output parameters when the OK floatures ON.						
EN input	See the output parameters when the OK flag turns ON. 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-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
Canaar CI I Na	ConcorChNo	INIT	0.4	04 4- 05	Charify the CLINIC of the compacting
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

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.
Incident level	IncidentLevel	DINT		Outputs the incident level.

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

Out Details				
Code	Contents	Meaning		
#0000	Normal end			
#2203	Operation error	The value displayed on the main digital display is read 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.