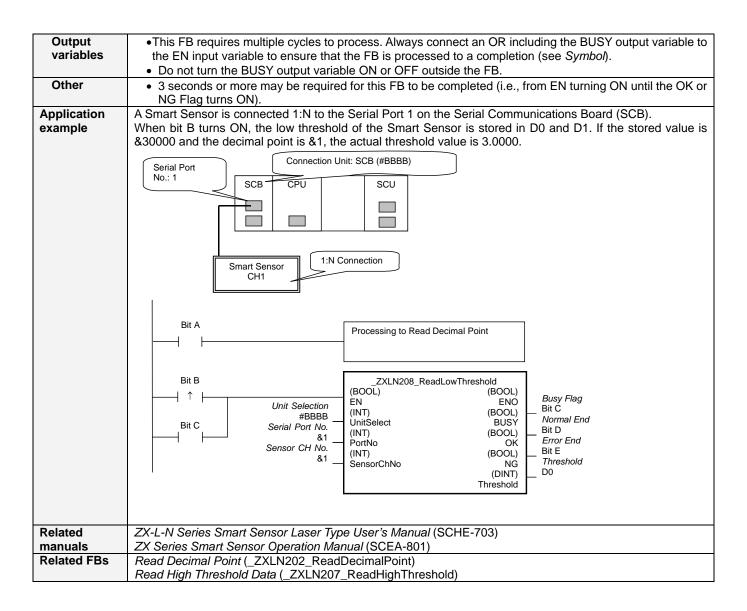
ZXLN Read Low Threshold: _ZXLN208_ReadLowThreshold

Basic	Reads the low threshold value from the Smart Sensor.				
function					
Symbol	Se				
File name	Lib/EBL/omroplib/Laser	Sensor\ZXLN_ZXLN208_ReadLowThreshold10.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 CX-Programmer	Version 5.0 or higher			
Conditions	External Connections				
for usage		connections in the controller configuration of the sensor side.			
Function description	 Communications must be within one network and cannot cross to another network. Communication Setting The communication settings of the serial port (Serial Gateway) must be the same as those of the Smart Sensor. 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 Communications ports (Internal logical ports) 				
	Serial Port specified by the <i>Connection unit</i> , <i>Serial port No</i> and <i>Sensor CH No</i> . The threshold data read with this FB does not include the decimal point position. Use the <i>Read Decimal Point</i> FB (_ZXLN202_ReadDecimalPoint) to read the decimal point.				
FB precautions	FB is being process •OK or NG will be tu the end of the FB pr Time Chart Start Trigger Busy Flag Normal End (OK) or Error End (NG) Threshold •When this FB is star	rned ON only for one cycle after processing is completed. Use these flags to detect			
EN input	Connect EN to an OR b	etween an upwardly differentiated condition for the Start Trigger and the BUSY output			
condition	from the FB as above.				
Restrictions		ardly differentiated condition for EN.			
Input	 If the input variable 	s are out of range, the ENO Flag will turn OFF and the FB will not be processed.			
variables					



Variable Tables Input Variables

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
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	ОК	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.
Threshold	Threshold	DINT	-19999 to 59999	Outputs the value of the low threshold.

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	The setting is incorrect. Refer to the <i>ZX Series Smart Sensor Operation Manual</i> for the setting error conditions of such as thresholds or hysteria width.
#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.