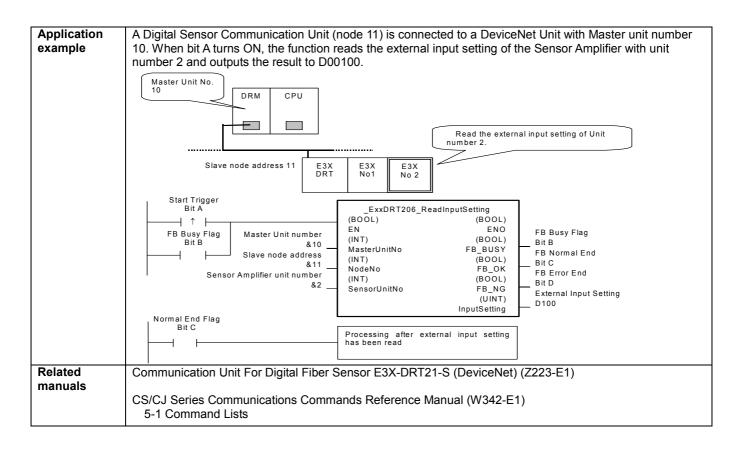
# ExxDRT Read External Input Setting: \_ExxDRT206\_ReadInputSetting

Basic function	Reads the external input setting of a Digital Type Sensor in the DeviceNet network.				
Symbol	Start Trigger		_ExxDRT206_ReadInput	Setting	
-			(BOOL)	(BOOL)	
			EN	ENO	
	Busy Flag Mas	ter Unit number	(INT) MasterUnitNo	(BOOL) FB Busy Flag FB_BUSY	
	Slav	e node address	(INT)	(BOOL) FB Normal End	
		_	NodeNo (INT)	FB_OK (BOOL) FD From Ford	
	Sensor Ampli	fier unit number	SensorUnitNo	FB_NG - FB Error End	
			10	(UINT) External Input Setting	
File name Applicable				_ReadInputSetting10.cxf	
models	Applicable Master Units	CSTW-DRM	21(-V1) and CJ1W-DRM	121	
models	Applicable Slave	E3X-DRT21-	S		
	Units	Lon Britz	0		
	Applicable Sensor	E3X Series:	E3X-DARM-S		
	Amplifiers		E3C-LDA input models		
			E2C-EDA input models		
	CPU Unit		H Unit version 3.0 or h		
			<ul> <li>H Unit version 3.0 or hi</li> <li>* Unit version 3.0 or his</li> </ul>		
		CP1H		gnei	
	CX-Programmer	Version 5.0 c	or higher		
Conditions	Sensor	•	0		
for usage	If a Mobile Consol	e is connected	I when the power is turn	ed ON, the function cannot be used because	
			olished with the Sensor.		
		be in RUN mo	de. The function cannot	be used when the Sensor is in another mode,	
	i.e., SET mode.				
	CPU Unit Settings	Settings for C	communications Instructi	ions in FBs	
	<ul> <li>DeviceNet Resport</li> </ul>				
	A Timeout time of				
	Number of retries				
	Shared Resources				
	Communications ports (internal logical ports)				
	<ul> <li>Other</li> <li>Communications must be within one network and cannot cross to another network.</li> </ul>				
Function					
description			ind Sensor Amplifier unit	ne DeviceNet network with the specified Master	
FB				Y output variable can be used to check whether	
precautions	the FB is being pro				
	<ul> <li>FB_OK or FB_NG</li> </ul>	will be turned	ON for one cycle only a	fter processing is completed. Use these flags to	
	detect the end of F	B processing.			
	Timing Chart Start Triagon				
	Start Trigger	ON OFF			
	FB Busy Flag (FB_BU	SY) ON			
	2007	OFF			
	FB Normal End (FB_ FB Error End (FB NG)				
				The FB Normal End Flag goes ON when the	
				setting has been read and stored.	
EN input		t between an ι	pwardly differentiated co	ondition for the start trigger and the FB_BUSY	
condition	output from the FB.		0 ( ) · · · · · · · · ·		
Restrictions			tiated 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	This FB requires n	nultiple cvcles	to process. Always conr	nect an OR including the FB_BUSY output	
variables				processed to completion (see <i>Symbol</i> ).	
	<ul> <li>Do not turn the FB_BUSY output variable ON or OFF outside the FB.</li> </ul>				



# Variable Tables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started 0 (OFF): FB not started.
Master Unit No.	MasterUnitNo	INT	&0	&0 to &15 #0 to #F	Specify the unit number of the DeviceNet Unit.
Slave node address	NodeNo	INT	&0	&0 to &63	Specify the node address of the slave.
Sensor Amplifier unit number	SensorUnitNo	INT	&1	&1 to &13 or &1 to &16	Depending on the communication mode setting, the maximum number of connectable Units is either 13 or 16 Units. Specify a unit number within the allowed range. Refer to the <i>Related Manuals</i> for details.

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.
FB Busy Flag	FB_BUSY	BOOL		Automatically turns OFF when processing is completed.
FB Normal End	FB_OK	BOOL		Turns ON for one cycle when processing ends normally.
FB Error End	FB_NG	BOOL		Turns ON for one cycle when processing ends in an error.
External Input Setting	InputSetting	UINT	&0 to &9	Outputs the external input setting. &0: Teaching without through-beam workpiece &1: Teaching without reflective workpiece &2: Teaching with or without workpiece &3: Automatic teaching &4: Power tuning (E3X or E3C) Fine positioning (E2C) &5: Zero reset &6: Light OFF (E3X) &7: Counter reset (E3X-DARM-S or E3C-LDA input models) &8 Synchronous sensing input (E2C) &9: Positioning teaching

### Internal Variables

Internal variables are not output from the FB.

If the FB NG Flag turns ON, the following internal variables can be monitored to obtain information on the error

Name	Variable name	Data type	Range	Description
FINS error code	FINS ErrorCode	WORD		The FINS error code is output. A code of #0000 is
				output for a normal end. Refer to the Related Manuals
				for details on the error codes.
Explicit message	Explicit ErrorCode	WORD		Outputs the explicit message error code. A code of
error code				#0000 is output for a normal end. Refer to the Related
				Manuals for details on the error codes.

#### **Explicit Error Code Details**

Code	Contents	Meaning
#0000	Normal end	
#16FF	No Sensor Amplifier	There is no Sensor Amplifier with the specified unit number.
#0CFF	Not executable	The specified command cannot be executed.
		A Mobile Console is connected.
		<ul> <li>There is an error in communications with the Sensor Amplifier.</li> </ul>
		The Sensor Amplifier is in an operation mode other than RUN mode.
		The FB was executed for a Sensor Amplifier that is not supported.

## Version History

Version	Date	Contents	
1.00	2005.4.	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.