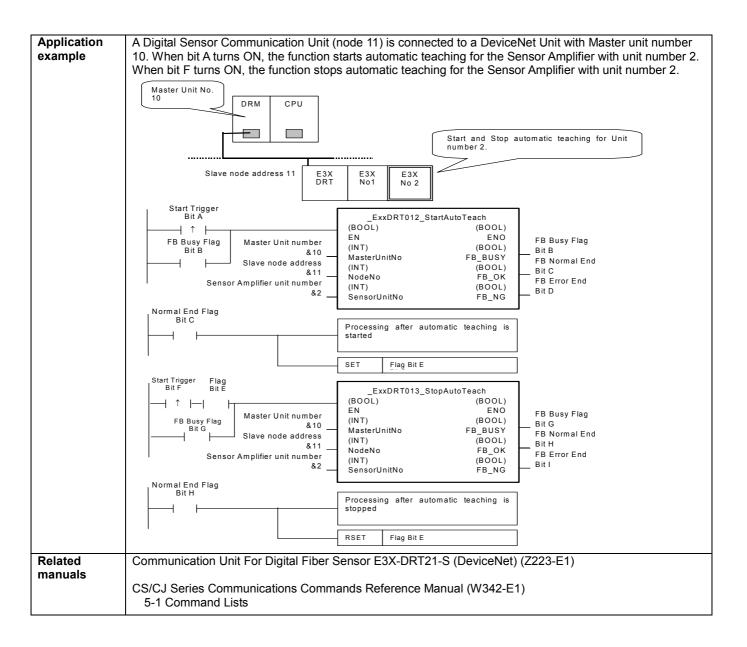
ExxDRT 012 Start Automatic-teaching: _ExxDRT012_StartAutoTeach

Basic function	Starts automatic teaching for a Digital Type Sensor in the DeviceNet network.				
Symbol	Start Trigger	_ExxDRT012_StartAutoTeach			
		(BOOL) (BOOL)			
	Ruov Flog	EN ENO (INT) (BOOL) ED Duoy Flor			
	Busy Flag Maste	r Unit number MasterUnitNo			
	Slave	node address (INT) (BOOL) FB Normal End			
	1				
	Sensor Amplifie	sr unit number SensorUnitNo FB Error End			
File name		alTypeSensor\ExxDRT_ExxDRT012_StartAutoTeach10.cxf			
Applicable		CS1W-DRM21(-V1) and CJ1W-DRM21			
models	Units				
	Applicable Slave Units	E3X-DRT21-S			
	Applicable Sensor	E3X Series: E3X-DA-S, E3X-MDA, E3X-DATW-S, and E3X-DARM-S			
	Amplifiers	E3C Series: E3C-LDA two-output models and E3C-LDA input models			
	CDULUsit	E2C Series: E2C-EDA two-output models and E2C-EDA input 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			
	CX-Programmer	Version 5.0 or higher			
Conditions	Sensor				
for usage		is connected when the power is turned ON, the function cannot be used because			
		nnot be established with the Sensor.			
	• The Sensor must b i.e., SET mode.	e in RUN mode. The function cannot be used when the Sensor is in another mode,			
	CPU Unit Settings				
		Settings for Communications Instructions in FBs			
		se Timeout Time (default: 2 s)			
		0 s or higher is recommended.			
	Number of retries (default: 0)			
	Shared Resources	arta (internal logical porta)			
	Communications ports (internal logical ports) Other				
		ust be within one network and cannot cross to another network.			
Function	Starts automatic teaching	ing for the Sensor Amplifier in the DeviceNet network with the specified Master Unit			
description		ddress, and Sensor Amplifier unit number.			
FB		d over multiple cycles. The FB_BUSY output variable can be used to check whether			
precautions	the FB is being pro				
	• FB_OK of FB_NG detect the end of FI	will be turned ON for one cycle only after processing is completed. Use these flags to			
	■ Timing Chart	b processing.			
	Start Trigger	ON T			
		OFF			
	FB Busy Flag (FB_BUS)				
		OFF			
	FB Normal End (FB O				
	FB Error End (FB_NG)	OFF			
		When the FB Normal End Flag goes ON, the results of			
		the FB processing are reflected in the Sensor Amplifier.			
EN input	Connect EN to an OR	between an upwardly differentiated condition for the start trigger and the FB_BUSY			
condition	output from the FB.				
Restrictions	 Always use an upwardly differentiated condition for EN. 				
Input variables	 If the input variable 	s are out of range, the ENO Flag will turn OFF and the FB will not be processed.			
Output		ultiple cycles to process. Always connect an OR including the FB_BUSY output			
variables	variable to the EN i	nput variable to ensure that the FB is processed to completion (see Symbol).			
	 Do not turn the FB 	BUSY output variable ON or OFF outside the FB.			



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.

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.
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.

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 <i>Related Manuals</i> for details on the error codes.
Explicit message error code	Explicit_ErrorCode	WORD		Outputs the explicit message error code. A code of #0000 is output for a normal end. Refer to the <i>Related Manuals</i> 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. There is an error in communications with the Sensor Amplifier. 			
#20FF	Not supported.	 The Sensor Amplifier is in an operation mode other than RUN mode. The FB was executed for a Sensor Amplifier that is not supported. The specified command 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.