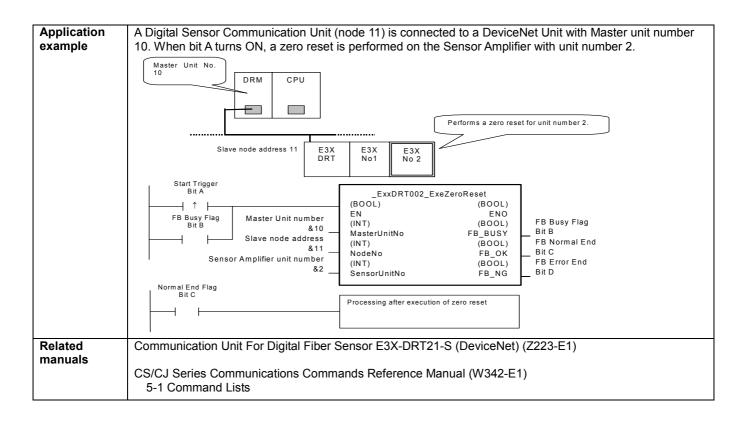
## Setting The Zero Reset: \_ExxDRT002\_ExeZeroReset

Basic function	Setting the zero reset	on a Digital Type Sensor in the DeviceNet network.					
Symbol	Slave	ExxDRT002_ExeZeroReset (BOOL) (BOOL) EN ENO (INT) (BOOL) MasterUnitNo FB_BUSY (INT) (BOOL) NodeNo FB_OK (INT) (BOOL) FB Normal End FB COL (INT) (BOOL) FB Error End					
File name	Lib\FBL\omronlib\Digi	talTypeSensor\ExxDRT\_ExxDRT002_ExeZeroReset10.cxf					
Applicable	Applicable Master	CS1W-DRM21(-V1) and CJ1W-DRM21					
models	Units						
	Applicable Slave	E3X-DRT21-S					
	Units	25/15/11/21/0					
	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					
	7 arrpinioro	E2C Series: E2C-EDA two-output models and E2C-EDA input models					
	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher					
	0.00	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	If a Mobile Console is connected when the power is turned ON, the function cannot be used because						
· ·	communications cannot be established with the Sensor.						
	The Sensor must	be in RUN mode. The function cannot be used when the Sensor is in another mode,					
	i.e., SET mode.						
	CPU Unit Settings						
	PLC Setup: Shared Settings for Communications Instructions in FBs  • DeviceNet Response Timeout Time (default: 2 s) A Timeout time of 10 s or higher is recommended.  • Number of retries (default: 0) Shared Resources  • Communications ports (internal logical ports)						
	Other						
	Communications must be within one network and cannot cross to another network.						
Function	Setting the zero reset on the Sensor Amplifier in the DeviceNet network with the specified Master Unit						
description		address, and Sensor Amplifier unit number.					
FB		sed over multiple cycles. The FB_BUSY output variable can be used to check whether					
precautions	the FB is being pr						
		will be turned ON for one cycle only after processing is completed. Use these flags to					
	detect the end of						
	■ Timing Chart						
	Start Trigger	ON $\square$					
		OFF					
	FB Busy Flag (FB BUSY	ON ON					
		OFF					
	FB Normal End (FB_OF						
	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 OF	between an upwardly differentiated condition for the start trigger and the FB_BUSY					
condition	output from the FB.	t between an apwarding differentiated condition for the staff thigger and the FD_BUST					
Restrictions		wardly differentiated condition for EN.					
Input		es are out of range, the ENO Flag will turn OFF and the FB will not be processed.					
variables	• II u le iliput valiabi	os are out or range, the Live may will turn orr and the re will not be processed.					
Output	This FR requires r	multiple cycles to process. Always connect an OR including the FB_BUSY output					
variables		input variable to ensure that the FB is processed to completion (see <i>Symbol</i> ).					
		B_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
					0 (OFF): FB not started.
Master Unit No.	MasterUnitNo	INT	&0	&0 to &15	Specify the unit number of the DeviceNet
				#0 to #F	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** 

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.	
		The Sensor Amplifier is in an operation mode other than RUN mode.	
		The FB was executed for a Sensor Amplifier that is not supported.	
#20FF	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.