



S_UDINT_TO_***: Type Conversion

[Original instructions](#)

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Function Description

The function converts an input value of the **UDINT** data type to an output value of the **BOOL**, **BYTE**, **WORD**, **DWORD**, **INT**, **DINT**, **UINT**, **REAL** or **TIME** data type.

NOTE: The function converts strictly in accordance with IEC rules. Since this function has been realized as a generic function, there will also be a few illogical conversions, e.g. **UDINT_TO_BOOL**.

When converting the data type **UDINT** to the **BOOL**, **BYTE**, **WORD**, **INT** or **UINT** data type, the least significant bits of the input value are transferred to the output.

EN and **ENO** can be configured as additional parameters.

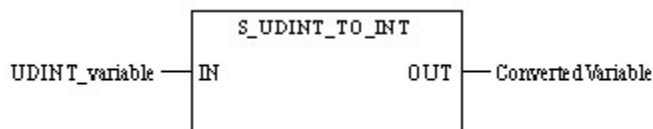
Available Functions

List of available functions

- S_UDINT_TO_BOOL
- S_UDINT_TO_BYTE
- S_UDINT_TO_WORD
- S_UDINT_TO_DWORD
- S_UDINT_TO_INT
- S_UDINT_TO_DINT
- S_UDINT_TO_UINT
- S_UDINT_TO_TIME
- S_UDINT_TO_REAL

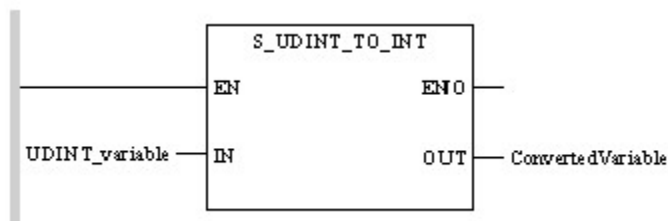
Representation in FBD

Representation of an Integer application



Representation in LD

Representation of an Integer application



Parameter Description

Description of input parameters

Parameter	Data Type	Meaning
UDINT_variable	UDINT	input value

Description of output parameters

Parameter	Data Type	Meaning
ConvertedVariable	BOOL, BYTE, WORD, DWORD, INT, DINT, UINT, REAL, TIME	output value

Runtime Error

The system bit [%S18](#) is set to 1, if

- the value range on the output is exceeded (numeric data types).
- a negative input value is to be converted into an UDINT,UINTorTIME output value.

The system bit [%S18](#) and system word [%SW17](#) are **not** used when data types are converted:

- BOOL
- BYTE
- WORD
- DWORD
- REAL