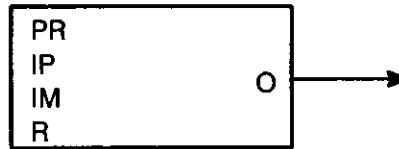


# 11.0 COUNTER

This function can be used in AutoMax Control Block tasks and UDC Control Block tasks.



## Function

$OUTPUT = OUTPUT(n-1) + INPUT(+) - INPUT(-)$

## Program Statement

```
CALL COUNTER(RESET = reset@,           &  
             PRESET = preset!(%),      &  
             INPUT_PLUS = input_plus%, &  
             INPUT_MINUS = input_minus%, &  
             OUTPUT = output%)         &
```

## Inputs

PR (PRESET) =

DOUBLE PRECISION INTEGER(!) or INTEGER (%)  
Counter preset. This parameter must be specified as a variable name (literal value not accepted). The default for this parameter is zero (0). The 32-bit internal counter is preset to this value when RESET is TRUE.

IP (INPUT\_PLUS) =

INTEGER plus input. The default for this parameter is zero (0). This input is added to the counter. This parameter can be specified as a variable or a constant.

IM (INPUT\_MINUS) =

INTEGER minus input. The default for this parameter is zero (0). This input is subtracted from the counter. This parameter can be specified as a variable or a constant.

R (RESET) =

BOOLEAN counter reset. The default for this parameter is FALSE. This signal causes the counter to be initialized to the preset value.

## Outputs

O (OUTPUT) =

INTEGER counter output. This parameter must be specified. If the value of the counter exceeds 15 bits plus sign, OUTPUT is limited to the maximum signed value (-32768 to +32767).