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IR10Edge

I = Input

R = Reading functions

The IR10Edge function detects the rising edge or falling is a digital signal.

IMPLEMENTATION

IR10Edge (Input, Type, Time, Init, Result)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	INPUT GLOBAL	Input	F	Digital status to be analyzed
IN	CONST	Type	F	Front type to be analyzed, 0 for descent, 1 to rise.
IN	CONST	Time	L	Time signal verification. With zero value the time to check is disabled.
IN	GLOBAL	Init	F	Flag to inform if is the first execution of the function (0 for first time, 1 for subsequent)
OUT	GLOBAL	Result	F	Flag set to 1 when it encounters the front, otherwise it is left unchanged.

Example

In the example the “ofUscita” output is activated on the rising edge of the input “Input” after a check of 1 second.

```
gfInit = 0
MAIN:
```

IR10Edge (Input, 1, 1000, gfInit, gfResult)

```
IF gfResult
  gfResult = 0
  SETOUT ofUscita
ENDIF
gfInit = 1
WAIT 1
JUMP MAIN
END
```

Note

- In order to be effective, the function should be placed at a point of the application that runs on every logical round.
- The result flag is set to 1 only if the front condition it occurs, otherwise it remains unchanged.
- The Init flag this is useful if the unit was reactivated with TRESTART command and allows to initialize the function.

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