

Monitoring a discrete alarm signal

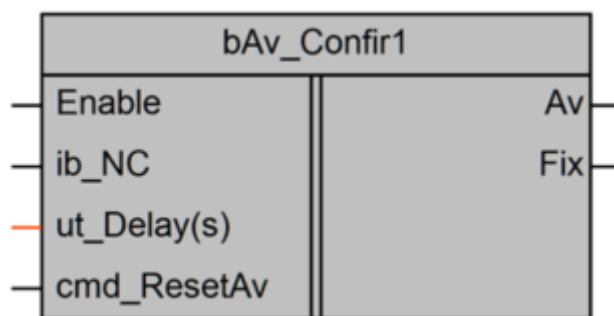


Figure 1 – Symbol

Inputs	Data type	Description	Range
Enable	Bool	Work permit	
ib_NC	Bool	Supervised input signal (NC)	0 – Alarm 1 – Normal
ut_Delay(s)	Int	Delay time for fixing an accident, in seconds	≥0
cmd_ResetAv	Bool	Alarm reset	
Outputs	Data type	Description	Range
Av	Bool	Alarm flag (with auto-reset)	0 – Alarm 1 – Normal
Fix	Bool	Alarm flag (manual reset)	0 – Alarm 1 – Normal

Description of how the macro works

The macro is designed to process input discrete normally closed alarms.

Principle of operation

If the block's operation is enabled (Enable=1), then if the signal at the input (ib_NC=1) disappears for longer than the specified time (ut_Delay(s)), an alarm will be recorded (Av=1, Fix=1).

If the block operation is disabled (Enable=0), then the input signal is not monitored.

The auto-reset fault flag (Av) is reset when the input signal is restored (ib_NC=1).

Resetting the alarm flag with manual reset (Fix) occurs using the "Reset Alarm" command (cmd_ResetAv=1).

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