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APPLICATION NOTE

TIMER

Type:

Command

Syntax:

TIMER(timer_no, output, pattern, time[,option])

Description:

The TIMER command allows an output or a selection of outputs to be set or cleared for a predefined period of time. There are 8 timer slots available, each can be assigned to any of the first 32 outputs. The timer can be configured to turn the output ON or OFF.

Parameters:

Timer_no: The timer number in the range 0-7

Output: Selects the physical output or first output in a group. This should be in the

range 0..31.

Pattern: 1 for a single output. If set to a number this represents a binary array of outputs

to be turned on

Time: The period of operation in milliseconds

Option: Inverts the output, set to 1 to turn OFF at start and ON at end.

Note:

Availability: V1.66 Dev 27 and later.

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Example1:

Use the TIMER function to flash an output when there is a motion error. The output lamp should flash with a 50% duty cycle at 5Hz.

```
WAIT UNTIL MOTION_ERROR
WHILE MOTION_ERROR
TIMER(0,8,1,100) 'turns ON output 8 for 100milliseconds
WA(200) 'Waits 200 milliseconds to complete the 5Hz period
WEND
```

Example2:

Setting outputs 10, 12 and 13 OFF for 70 milliseconds following a registration event. The first output is set to 10 and the pattern is set to 13 (1 0 1 1 in binary) to enable the three outputs. Output 11 is still available for normal use. The option value is set to 1 to turn OFF the outputs for the period, they return to an ON state after the 70 milliseconds has elapsed.

```
WHILE running
REGIST(3)
WAIT UNTIL MARK
TIMER(1,10,13,70,1)
WEND
```

Example3:

Firing output 10 for 250 milliseconds during the tracking phase of a MOVELINK Profile

```
WHILE feed=ON

MOVELINK(30,60,60,0,1)

MOVELINK(70,100,0,60,1)

WAIT LOADED 'Wait until the tracking phase starts

TIMER(2,10,1,250) 'Fire the output during the tracking phase

MOVELINK(-100,200,50,50,1)

WEND
```

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