

# How to Use Event Input

- When using event input, mount the option unit (E53-AKB).  
up to two E53-AKB units can be mounted on the E5AK-T, and two event input can be used for each E53-AKB unit.  
E53-AKB × 1 unit : 2 event inputs  
E53-AKB × 2 unit : 4 event inputs
- Switching by event input is not possible on the menu display.
- Switch event inputs ON and OFF while controller power is ON.

## Input assignments

- You can choose from the following six event input functions:  
Run/Reset  
Remote/Local  
Auto/Manual  
Hold/Hold cancel  
Advance  
Pattern select
- Event input ON/OFF judgment is carried out on inputs of 200 ms minimum.
- When event inputs are used as program advance input, the program step is advanced at the rising (OFF→ON) edge of the input signal. When event inputs are used as run/reset input, program operation is stopped (reset) at the rising (OFF→ON) edge of the input signal, and program operation is started (run) at the falling (ON→OFF) edge. Other signals are accepted at all times.
- Set event input assignments in the “event input assignments 1 to 4” parameters (option mode). However, note that “event input assignment 1/2” parameters cannot be used when only one unit of the E53-AKB is installed.
- The following table shows the relationship between the settings and functions of the “event input assignment 1 to 4” parameters.

Setting	Function
<i>non</i>	Event input disabled
<i>rSt</i>	OFF→ON: Reset /ON→OFF: Run
<i>rnt</i>	ON: Remote /OFF: Local
<i>rAn</i>	ON: Manual /OFF: Auto
<i>HLd</i>	ON: Hold /OFF: Hold cancel
<i>Adv</i>	Execute at OFF→ON
<i>Ptn0</i> <i>Ptn1</i> <i>Ptn2</i>	Specify by combination of three inputs (*1).

\*1 The following table shows the relationship between pattern select No. and pattern No.

Pattern No.	0	1	2	3	4	5	6	7
Pattern select 0		○		○		○		○
Pattern select 1			○	○			○	○
Pattern select 2					○	○	○	○

## Detailed description of input functions



- There is no order of priority in event input, key operations and communications command setup. However, remote/local, auto/manual, hold/hold cancel or pattern selection be set to either of ON or OFF. So, parameters will always follow event input even if you try to switch settings by key operation and communications commands.

- Program operation is stopped (reset) at the rising (ON→ON) edge of the event input signal, and the “RST” LED lights. Program operation is started (run) at the falling (ON→OFF) edge of the event input signal.

### Remote/Local

- This function is supported only when E53-AK01/02/03, the option unit for serial communications, is installed.
- Remote/local cannot be assigned in the “event input assignment 1/2” parameters.
- When event input is set to “ON”, parameters can be written only by using the communications function, and the “RMT” LED lights. The content of event input is reflected in the “remote/local” parameter (level 2 mode).
- Remote/local can be switched up to 100,000 times.

### Auto/Manual

- When event input is set to “ON”, the controller is switched to manual operation, and the “MANU” LED lights.

### Hold/Hold cancel

- This function is enabled only during program operation.
- The program is paused (Hold) when the event input is ON, and the “HOLD” LED lights. Holds continue until the state of the event input changes to OFF.



- This function is enabled only during program operation.
- Program steps are advanced at the rising (OFF→ON) edge of the event input signal. Accordingly, be sure to set event input OFF before you use this function.

### Pattern select

- This function is enabled only when the program is reset.
- Patterns are selected using a combination of pattern select 0 to 2.
- Pattern select 0 to 2 inputs that are not assigned are normally treated as OFF. For example, when only pattern select 1 is assigned, pattern select inputs 0 and 2 are treated as OFF, so pattern 0 and 2 are patterns targeted for switching.

## Parameters

Symbol	Parameter Name: Mode	Description
$E_{L-} *$	Event input assignments 1 to 4: Option	Event input functions

\* : 1 to 4