_8154_set_ring_counter	Enable ring counter function

Support Products: PCI-8154

Descriptions:

This function is used to set ring counter limitation value and enable ring counter function. When enable the ring counter function, the command and feedback counters will be operated as a ring counter. When the ring counter limitation value be set to zero, the ring counter function will be disabled.

For example, in **Figure 1**, when the ring counter limitation value(I32 RingVal) be set to four, the command and feedback counters will count up until counter's value that is equal to four, then the command and feedback counters will be reset to zero and repeat above behavior. Relatively, in **Figure 2,** when the ring counter limitation value(I32 RingVal) be set to four, the command and feedback counters will count down until counter's value that is equal to zero, then the command and feedback counters will be reset to four and repeat above behavior.

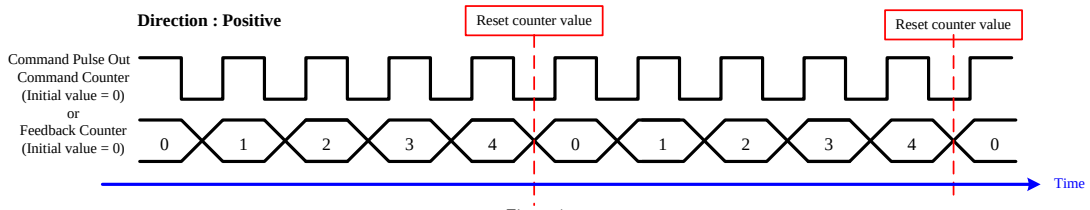

Figure 1

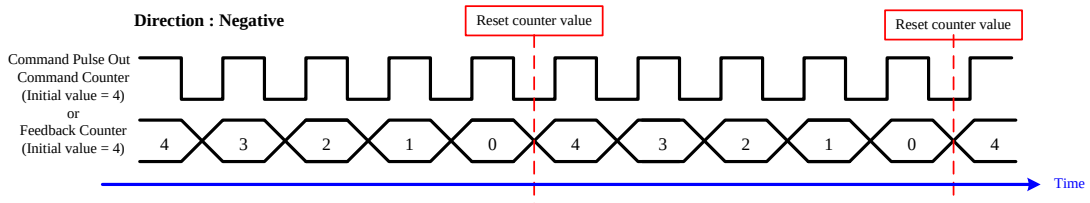

Figure 2

Syntax:

C/C++:

I16 _8154_set_ring_counter(I16 AxisNo, I32 RingVal)

Visual Basic:

B_8154_set_ring_counter (ByVal AxisNo As Integer, ByVal RingVal As Long) As Integer

Parameters:

I16 AxisNo: The index of axis.

I32 RingVal: The limitation value of ring counter.(0 < **RingVal** < 134217727)

If **RingVal** equal to zero then disable ring counter function

Return Values:

I16 Error code: Please refer to error code table.

Example:

```
I16 AxisNo      = 0;          //Set axis ID
I32 RingVal     = 1000;       //Set the limitation value of ring counter
F64 Dist        = 3000;       //Set the relative distance to move (unit: pulse)
F64 StrVel      = 0;          //Set starting velocity of a velocity profile in units of pulse per second
F64 MaxVel      = 1000;       //Set maximum velocity in units of pulse per second
F64 Tacc        = 0.001;      //Set acceleration time in units of seconds
F64 Tdec        = 0.001;      //Set deceleration time in units of seconds

_8154_set_ring_counter(AxisNo, RingVal ); //Enable ring counter function
_8154_start_tr_move(AxisNo, Dist, StrVel, MaxVel, Tacc, Tdec); //Start relative move
……
_8154_set_ring_counter(AxisNo, 0 ); //Disable ring counter function
```

See also:

I16 _8154_get_ring_counter(I16 AxisNo, I32 *RingVal);

_8154_get_ring_counter	Get limitation value of ring counter

Support Products: PCI-8154

Descriptions:

This function is used to get limitation value of ring counter.

Syntax:

C/C++:

I16 _8154_get_ring_counter(I16 AxisNo, I32 *RingVal)

Visual Basic:

B_8154_get_ring_counter (ByVal AxisNo As Integer, RingVal As Long) As Integer

Parameters:

I16 AxisNo: The index of axis.

I32 *RingVal: Get the limitation value of ring counter.(0 < **RingVal** < 134217727)

Return Values:

I16 Error code: Please refer to error code table.

Example:

```
I16 AxisNo    = 0;          //Set axis ID
I32 RingVal   = 1000;       //Set the limitation value of ring counter
F64 Dist      = 3000;       //Set the relative distance to move (unit: pulse)
F64 StrVel    = 0;          //Set starting velocity of a velocity profile in units of pulse per second
F64 MaxVel    = 1000;       //Set maximum velocity in units of pulse per second
F64 Tacc      = 0.001;      //Set acceleration time in units of seconds
F64 Tdec      = 0.001;      //Set deceleration time in units of seconds

_8154_set_ring_counter(AxisNo, RingVal ); //Enable ring counter function
_8154_start_tr_move(AxisNo, Dist, StrVel, MaxVel, Tacc, Tdec); //Start relative move
……
_8154_set_ring_counter(AxisNo, 0 ); //Disable ring counter function
```

See also:

I16 _8154_set_ring_counter(I16 AxisNo, I32 RingVal)