RAPID

pp

pp

TRAP

di1　　　　　0

di1　　　　0　1　　reg1　　　　　1

TRAP

- ◆
- ◆

令	

(1)CONNECT

CONNECT Interrupt WITH Trap routine;
Interrupt :   intnum
Trap routine :   identifier

:

                                                        ISignalDI

ISignalDO   ISignalAI   ISignalAO   ITimer

例:

```
VAR intnum,intInspect;
PROC main()
    ...
    CONNECT intInspect W
```

制:

VAR

IDelete

Error Handler
ERR_ALRDYCNT

ERR_CNTNOTVAR

VAR

ERR_INOMAX

ISignalDI [\Single],Signal,TriggValue,Interrupu;
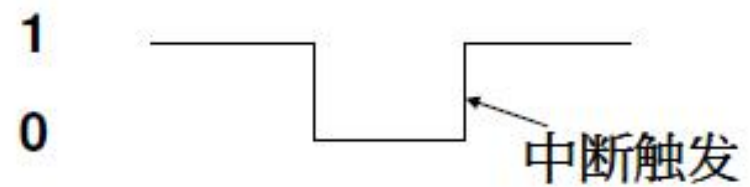**[\Single] :**   switch
Signal :   signaldi
TriggValue :   dionum
Interrupu :   intnum

   :

                CONNECT

中断触发   中断触发

例:

```
…
CONNECT int1 WITH iroutine1;
ISignalDI\Signal diO1,1,int1;
…
CONNECT int2 WITH iroutine2;
ISignalDI diO2,1,int1;
```
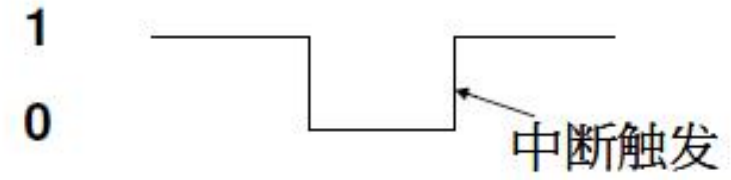
制:

Idelete

```
PROC main()                      PROC main()
    CONNECT int1 WITH r1;            CONNECT int1 WITH r1;
    ISignalDI di01,1,int1;          ISignalDI di01,1,int1;
    ...                             WHILE TRUE DO
    Idelete int1;                       ...
ENDPROC                             ENDWHILE
                                ENDPROC
```
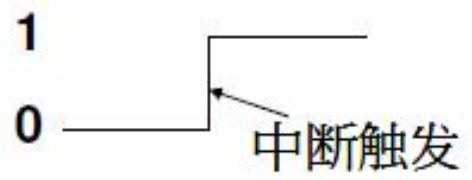
(3)ISignalDO

ISignalDO [\Single],Signal,TriggValue,Interrupu;
    [\Single] :   switch
    Signal :   signaldi
    TriggValue :   dionum
    Interrupu :   intnum

  :

    CONNECT

例：

```
…
CONNECT int1 WITH iroutine1;
ISignalDO\Signal do01,1,int1;

…
CONNECT int2 WITH iroutine2;
ISignalDO do02,1,int1;
```

Idelete

```
PROC main()
    CONNECT int1 WITH r1;
    ISignalDO do01,1,int1;
    ...
    IDelete int1;
ENDPROC
```

```
PROC main()
    CONNECT int1 WITH r1;
    ISignalDO do01,1,int1;
    WHILE TRUE DO
    ...
    ENDWHILE
ENDPROC
```

(4)ISignalAI

ISgnalAI [\Single],Signal,Condition,HighValue,lowValue,DeltaValue,[\DPos]|[\Dneg] Interrupt;

switch

signaldi

(adotrigg)

num

num

num

switch

switch

intnum

AIO_ABOVE_HIGH

High Value

AIO_BELOW_HIGH

High Value

AIO_ABOVE_LOW

Low Value

AIO_BELOW _LOW

Low Value

AIO_BETWEEN

Low Value

High Value

AIO_OUTSIDE

High Value

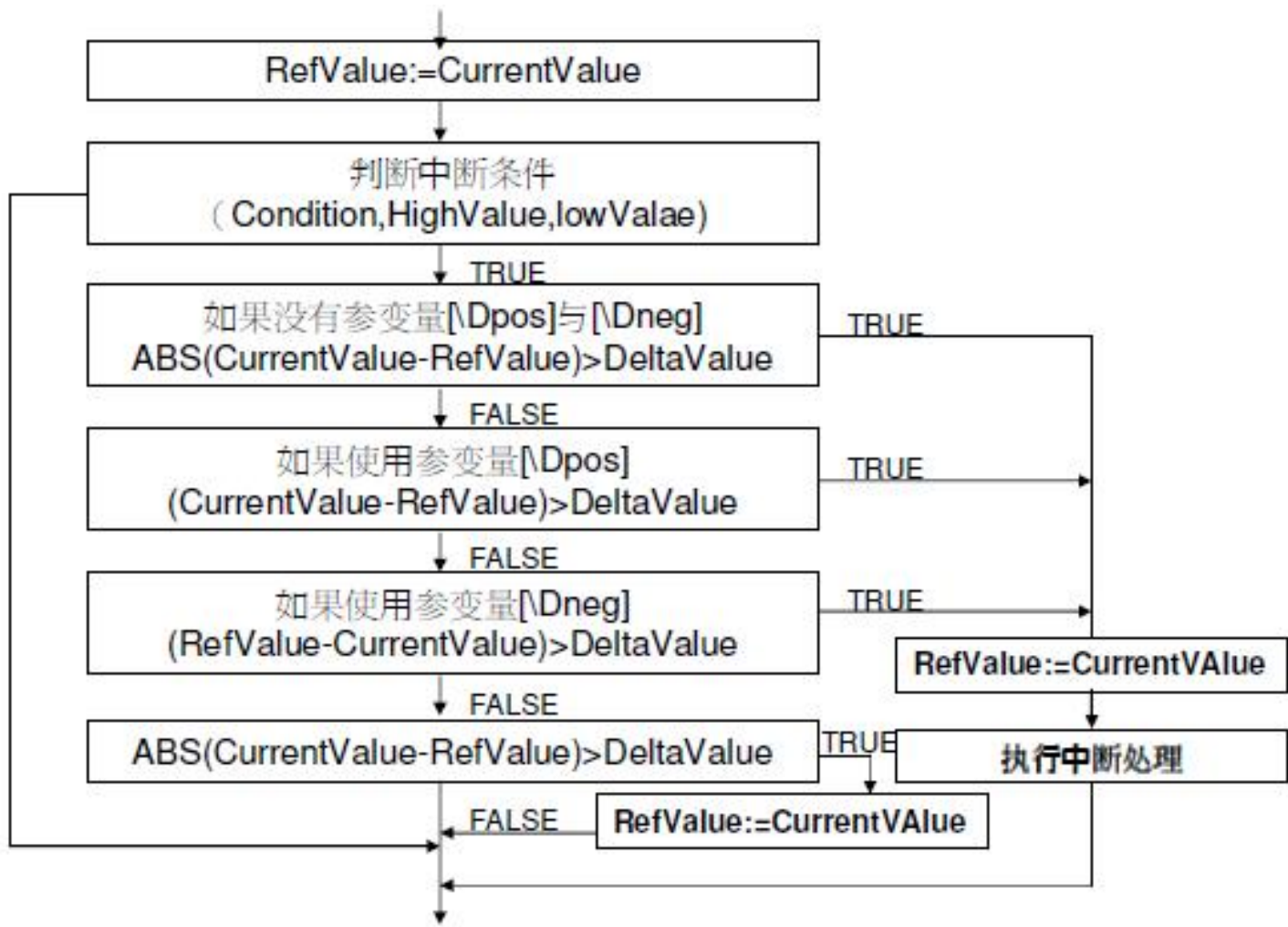Low Value

AIO_ALWAYS

Low Value   High Value

CONNECT

例：

```
…
CONNECT int1 WITH iroutine1;
ISignalAI\signal ai1,AIO_ BETWEEN,2,1,0,int1;

…
CONNECT int2 WITH iroutine2;
ISignalAI ai2,AIO_BETWEEN,1.5,0.5,0,int1;

…
CONNECT int3 iroutine3;
ISignalAI ai3,AIO_BETWEEN,1.5,0.5,0.1,init3;
```
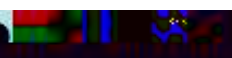
制:

HighValue

LowValue

HighValue

LowValue

DeltaValue   O

ISignalDIr

(5)ISignalAO

ISgnalAO
[\Single],Signal,Condition,HighValue,lowValue,DeltaValue,[\DPos]|[\Dneg]
Interrupt

num
switch
switch
intnum

A   AB

High Value

A   B

High Value

A   AB

Low Value

A   B

Low Value

A   B

Low Value   High Value

A

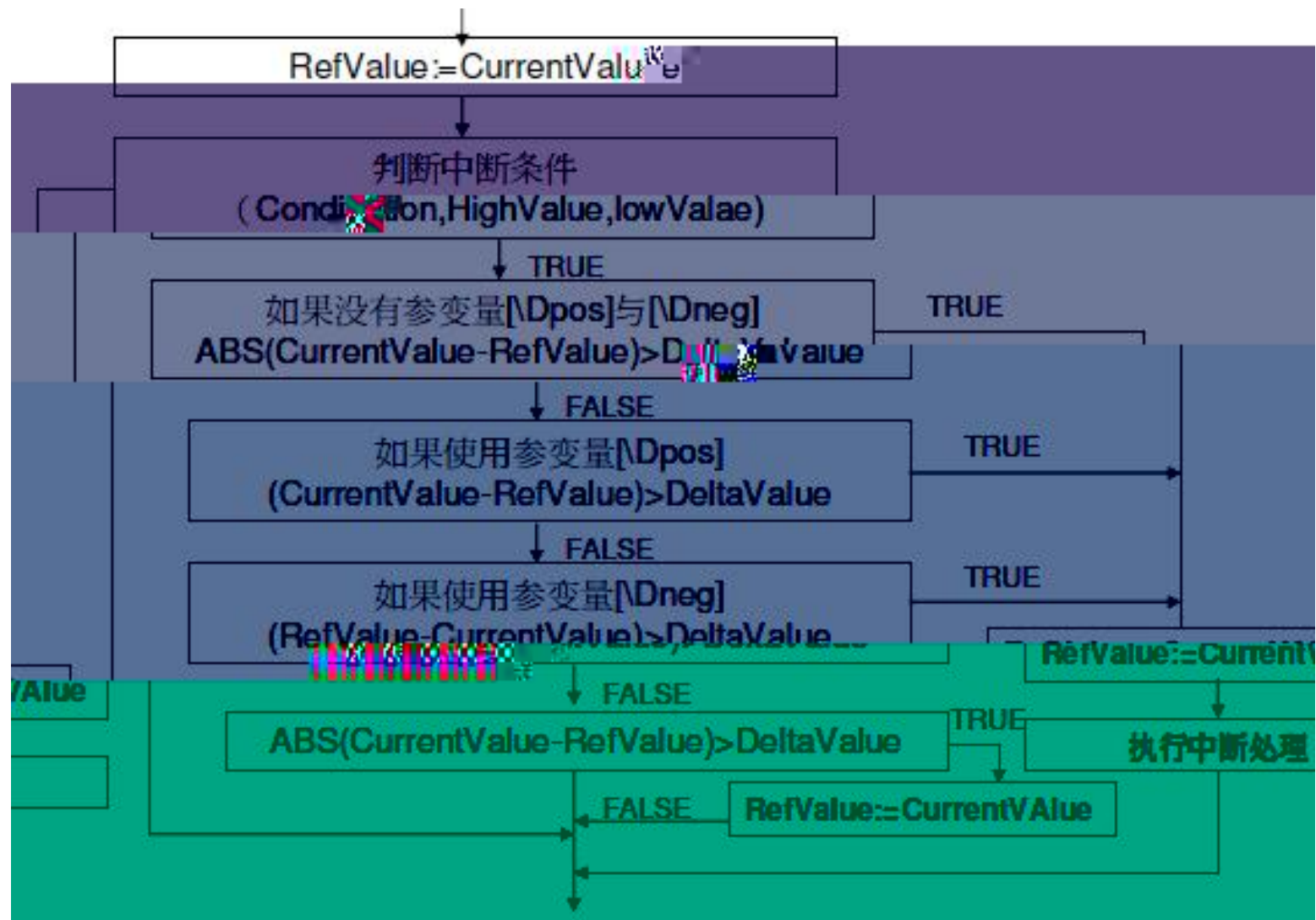High Value   Low Value

A   A   A

Low Value

High Value

:

CONNECT

例:

```
...
CONNECT int1 WITH iroutine1;
ISignalAO\single ao1,AIO_BETWEEN,2,1,0,int1;

...
CONNECT int2 WITH iroutine2;
ISignalAO ao2,AIO_BETWEEN,1.5,0.5,0,int2;

...
CONNECT int3 iroutine3;
ISignalAO ao3,AIO_BETWEEN,1.5,0.5,0.1,init3;
```

制:

◆ HighValue

LowValue

◆ HighValue

LowValue

◆ DeltaValue 0

◆ ISignalDIr

Itimer [\Single],Time,Interrupt;

[\Single] :   swtich

Time :   num

Interrupt :   intnum

:

例:

```
...

CONNECT timeint WITH check_serialch;

Itimer 60,timeint;

...

TRAP check_serialch

WriteBin ch1,buffer,1;

IF ReadBin(ch1\Time:=     )>0 THEN

    TPWrite "Communication is broken";

    EXIT;

ENDIF

ENDTRAP
```

(6)TriggInt

TriggInt TriggData,Distance[\Start]|[\Time],Interrupt;

[TriggData]: triggdata

Distance: mm num

[\Start]: switch

[\Time]: switch

Interrupt : signaldo

：

TriggJ TriggL TriggC
[\Start]
[\Time]
0.5s

制:

5-

120ms   TriggIO   TriggEquit

[\Time]

fine

zone

[\Time]

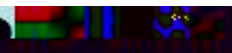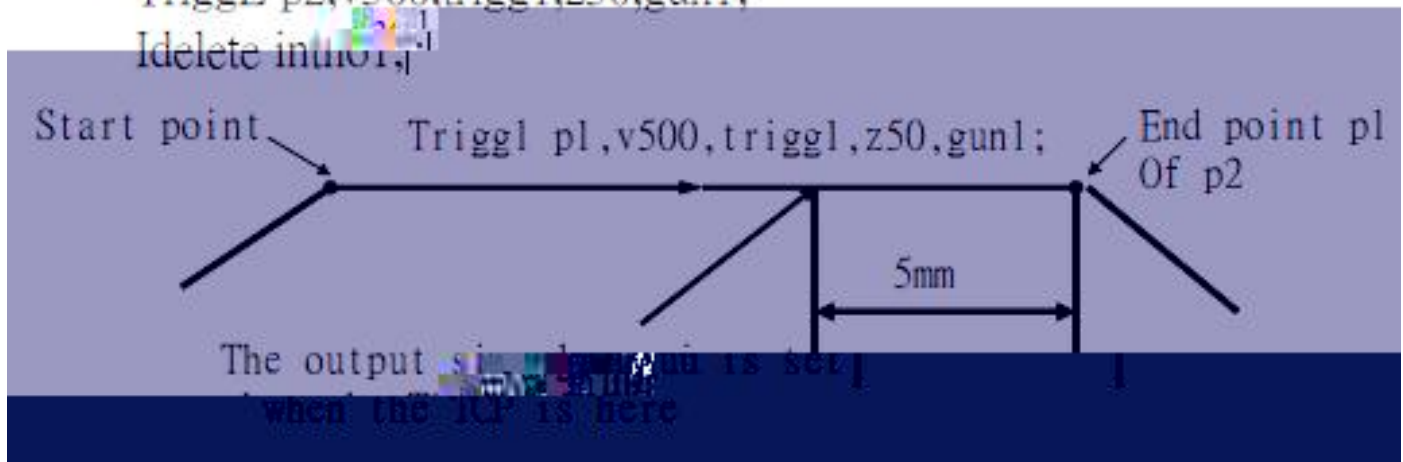0.5s   500mm/s   IRB2400

150ms   IRB6400   250ms

```
VAR intnum intno1;
VAR triggdata trigg1;
CONNECT intno1 WITH trap1;
Triggint trigg1,5,intno1;
TriggL p1,v500,trigg1,z50,gun1;
TriggL p2,v500,trigg1,z50,gun1;
Idelete intno1;
```

Start point   Triggl p1,v500,triggl,trigg1,z50,gun1;   End point p1
                                                                      Of p2

                                                    5mm

The output si   gun is set
when the ICP is here

(7)IDelete

IDelete Interrupt;
   Interrupt :   intnum

   :

例:

```
...

CONNECT intInspect WITH rAlarm;

ISigalDI di01_Vacuum,0,intInspect;

...

Idelete intInspect;
```

制:

Idelete

CONNECT

以下　况下，中　　　动　　：

1

2

Start from Beginning

3

Move pp to Routine

令	
ISleep	
IWatch	
IDisable	
IEnable	

(1)ISleep

Isleep Interrupt;
    Interrupt :   intnum

    :

IWatch

例：

```
...

CONNECT intInspect WITH rAlarm;

ISignalDI di01_vacuum,0,intInspect;

...                  ←————————  中断监控
...

ISleep intInspect;

...      ←————————  中断失效

IWatch intinspect;

...    ←————————  中断监控

Error Handler :

ERR_UNKINO
```

(2)IWatch

IWatch Interrupt;
    Interrupt :   intnum

   :

    ISleep

例:

```
...
CONNECT intInspect WITH rAlarm;
ISignalDI di01_vacuum,0,intInspect;
...
```
← 中断监控
```
...
```
```
ISleep intInspect;
```
← 中断失效
```
...
```
```
IWatch intinspect;
```
← 中断监控
```
...
```
Error Handler :
ERR_UNKINO

(3)IDisable　IEnable

：

IEnable

例：
```
...
IDisable;
FOR i FROM 1 TO 100 DO
    character [i]:=ReadBin(sensor);
ENDFOR
IEnable;
...
```