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cnc_rdopnlsgnl

#include "fwlib32.h"

FWLIBAPI short WINAPI cnc_rdopnlsgnl(unsigned short FlibHndl, short slct_data, IODBSGNL *sgnl);

Description

Reads the output signal image of software operator's panel.

Arguments

FlibHndl [in]

Specify the library handle. See "Library handle" for details.

slct_data [in]

Specify the data select flag.

bit 0 : Mode signal
bit 1 : Manual handle feed axis selection signal
bit 2 : Manual handle feed travel distance selection signal
bit 3 : Rapid traverse override signal
bit 4 : Manual feedrate override signal
bit 5 : Feedrate override signal
bit 6 : Spindle override signal (only Series 15)
bit 7 : Optional block skip signal
bit 8 : Single block signal
bit 9 : Machine lock signal
bit 10 : Dry run signal
bit 11 : Memory protection signal
bit 12 : Automatic operation halt signal
bit 13 : (Not used)
bit 14 : (Not used)
bit 15 : (Not used)

* When the bit corresponding to the signal is set to 0, that signal is not read. To read the signal, set the corresponding bit to 1.

sgnl [out]

Pointer to the IODBSGNL structure including the output signal image of software operator's panel. The IODBSGNL structure is as follows.

Series 15

```
typedef struct iodbsgnl {
     short     datano;     /* (Not used) */
     short     type;       /* Data select flag */
     short     mode;       /* Mode signal */
     short     hndl_ax;    /* Manual handle feed axis
                                  selection signal */
     short     hndl_mv;    /* Manual handle feed travel
                               distance selection signal */
     short     rpd_ovrd;   /* Rapid traverse override signal */
     short     jog_ovrd;   /* Manual feedrate override signal*/
     short     feed_ovrd;  /* Feedrate override signal */
     short     spdl_ovrd;  /* Spindle override signal */
     short     blck_del;   /* Optional block skip signal(0/1)*/
     short     sngl_blck;  /* Single block signal(0/1) */
     short     machn_lock; /* Machine lock signal(0/1) */
     short     dry_run;    /* Dry run signal(0/1) */
     short     mem_prtct;  /* Memory protection signal(0/1) */
     short     feed_hold;  /* Automatic operation halt
                                              signal(0/1) */
     short     manual_rpd; /* (Not used) */
     short     dummy[2];   /* (Not used) */
} IODBSGNL ;
```

Series 16/18/21/0, Power Mate

```
typedef struct iodbsgnl {
     short     datano;     /* (Not used) */
     short     type;       /* Data select flag */
     short     mode;       /* Mode signal */
     short     hndl_ax;    /* Manual handle feed axis
                                  selection signal */
     short     hndl_mv;    /* Manual handle feed travel
                               distance selection signal */
     short     rpd_ovrd;   /* Rapid traverse override signal */
     short     jog_ovrd;   /* Manual feedrate override
                                                signal */
     short     feed_ovrd;  /* Feedrate override signal */
     short     spdl_ovrd;  /* (Not used) */
     short     blck_del;   /* Optional block skip
                                                signal(0/1) */
     short     sngl_blck;  /* Single block signal(0/1) */
     short     machn_lock; /* Machine lock signal(0/1) */
     short     dry_run;    /* Dry run signal(0/1) */
     short     mem_prtct;  /* Memory protection signal(0/1) */
     short     feed_hold;  /* Automatic operation halt
                                                signal(0/1) */
} IODBSGNL ;
```

datano
Not used

type
Data selection flag is stored.

mode
Mode signal is stored.
Series 15
0 : MDI
1 : MEM
2 : EDIT
3 : HND
4 : JOG
5 : REF
6 : DNC
7 : INC
Series 16/18/21/0, Power Mate
0 : MDI
1 : MEM
2 : EDIT
3 : HNDL or INC
4 : JOG
5 : REF

hndl_ax
Manual handle feed axis selection signal is stored.
0 : HX
1 : HY
2 : HZ
3 : H4

hndl_mv
Manual handle feed travel distance selection signal is stored.
0 : ×1
1 : ×10
2 : ×100

rpd_ovrd
Rapid traverse override signal is stored.
0 : 100%
1 : 50%
2 : 25%
3 : F0

jog_ovrd
Manual feedrate override signal is stored.
0 : 0% 10 : 2.0% 20 : 52.0%

1 : 0.1% 11 : 2.7% 21 : 72.0%
2 : 0.14% 12 : 3.7% 22 : 100%
3 : 0.2% 13 : 5.2% 23 : 140%
4 : 0.27% 14 : 7.2% 24 : 200%
5 : 0.37% 15 : 10.0%
6 : 0.52% 16 : 14.0%
7 : 0.72% 17 : 20.0%
8 : 1.0% 18 : 27.0%
9 : 1.4% 19 : 37.0%

feed_ovrd
Feedrate override signal is stored.
0 : 0% 10 : 100% 20 : 200%
1 : 10% 11 : 110%
2 : 20% 12 : 120%
3 : 30% 13 : 130%
4 : 40% 14 : 140%
5 : 50% 15 : 150%
6 : 60% 16 : 160%
7 : 70% 17 : 170%
8 : 80% 18 : 180%
9 : 90% 19 : 190%

spdl_ovrd
Spindle override signal is stored. (only Series 15)
0 : 0% 10 : 100% 20 : 200%
1 : 10% 11 : 110%
2 : 20% 12 : 120%
3 : 30% 13 : 130%
4 : 40% 14 : 140%
5 : 50% 15 : 150%
6 : 60% 16 : 160%
7 : 70% 17 : 170%
8 : 80% 18 : 180%
9 : 90% 19 : 190%

spdl_ovrd
Not used.

blck_del
Optional block skip signal (0/1) is stored.

sngl_blck
Single block signal (0/1) is stored.

machn_lock
Machine lock signal (0/1) is stored.

dry_run
Dry run signal (0/1) is stored.

mem_prtct
Memory protection signal (0/1) is stored.

feed_hold
Automatic operation halt signal (0/1) is stored.

manual_rpd
Not used.

Return

EW_OK is returned on successful completion, otherwise any value except EW_OK is returned. The major error codes are as follows. (As for the details, see "Return status of Data window function")

Return code	Meaning/Error handling
EW_NOOPT	No option The software operator's panel function and the extended driver/library function are necessary.

Others EW_PROTOCOL, EW_SOCKET, EW_HANDLE, EW_VERSION, EW_UNEXP

CNC option

The Ethernet function and the extended driver/library function are necessary.

However, in case of FS16i/18i/21i/0i MODEL B, the required CNC option is as follows.

When Embedded Ethernet is used,

above two optional functions are not required.

When Ethernet board is used,

only Ethernet function is required.

The software operator's panel function is necessary.

CNC parameter

This function is not related to CNC parameter.

CNC mode

This function can be used in any CNC mode.

Available CNC

	15	**16**	**18**	**21**	**0**
M (Machining)	O	O	O	O	O
T (Turning)	×	O	O	O	O
P (Punch press)	×	O	O	×	×
L (Laser)	×	O	×	×	×

	Power Mate
Model D	O
Model H	O

See Also cnc_wropnlsgnl| cnc_rdopnlgnrl| cnc_wropnlgnrl| cnc_rdopnlgsname| cnc_wropnlgsname

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