

#### 4-2-4 Prescaling Menu (pscl)

|        |   |
|--------|---|
| p.bank | <u>Bank No. of Prescale</u>                     |
| ps*.ax | <u>Prescaling Value X (Mantissa) of Input A</u> |
| ps*.ay | <u>Prescaling Value Y (Exponent) of Input A</u> |
| ps*.bx | <u>Prescaling Value X (Mantissa) of Input B</u> |
| ps*.by | <u>Prescaling Value Y (Exponent) of Input B</u> |
| decp.* | <u>Decimal Point Position</u>                   |



FUNCTION

To display rotational speeds, circumferential speeds, or other values based on input pulse calculations, the rotational speed must be multiplied by a factor input before the input pulses are measured. This factor is called a prescale value.

Display value = Measured data x Prescaling value

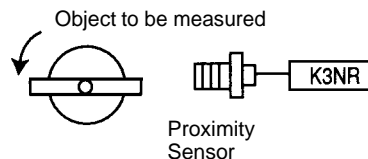
Prescaling values can be set within a range between  $0.0001 \times 10^{-9}$  and  $9.9999 \times 10^9$ .

Example:

Setting prescaling value with the input of two pulses per revolution.

Unit: rpm

Operating Mode: 1



Two pulses are output per revolution. Therefore, the prescaling value is calculated:  $0.5 \times 10^0 = 5.0 \times 10^{-1}$

p.bank = off  
ps.ax = 5.0000  
ps.ay = 10 -1

**Note** Use prescaling banks 1 through four if more than one prescaling value needs to be set.



## SETTING

| Input type                                       | Setting  | Default                           |
|--|--|-----------------------------------|
| p.bank: Bank no. of prescale                     | OFF/1 to 4   | OFF                               |
| ps*.ax: Prescaling value X (mantissa) of input A | 0.0001 to 9.9999   | 1.0000                            |
| ps*.ay: Prescaling value Y (exponent) of input A | –9 to 9  | 0                                 |
| ps*.bx: Prescaling value X (mantissa) of input B | 0.0001 to 9.9999   | 1.0000                            |
| ps*.by: Prescaling value Y (exponent) of input B | –9 to 9  | 0                                 |
| decp.*: Decimal point position                   | Operating modes 3 and 4:<br>One of the 1st to 3rd digits from the right<br><br>Other modes:<br>One of the 1st to 4th digits from the right | No decimal point position setting |



## REFERENCE

Refer to 6-1 Teaching Function.

## SETTING EXAMPLE

Follow the steps described below to input the following.

Operating mode = F1

Prescaling bank = OFF

Prescaling value X (mantissa) of input A = 0.5000

Prescaling value Y (exponent) of input A = –1

Decimal point = □□□□.□ (1st digit from the right)

Set Value LED Display Model

Basic Model



1, 2, 3...

1. Press the Mode Key for more than one second while the pscl prescaling menu is displayed. The p.bank prescaling bank setting will be displayed.

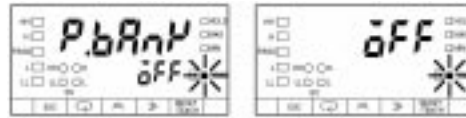
Set Value LED Display Model

Basic Model



- Press the Shift Key to display off for changing. The PROG indicator will flash.

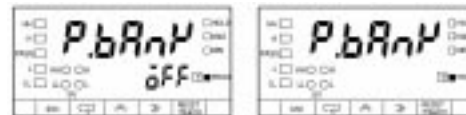
Set Value LED Display Model      Basic Model



- Press the Up Key to change the prescaling bank setting. The input will be validated automatically if no change is made for five seconds. The p.bank prescaling bank setting will be displayed again.

**Note** Press the Mode Key to enter the set value immediately. The ps.ax prescaling value X (mantissa) of input A setting will be displayed for setting the next parameter.

Set Value LED Display Model      Basic Model



- Press the Mode Key to display the ps.ax prescaling value X (mantissa) of input A setting.

Set Value LED Display Model      Basic Model



- Press the Shift Key to display the set value 1.0000 for changing. The PROG indicator will flash.

Set Value LED Display Model      Basic Model



- Press the Up and Shift Keys to set the value to 0.5000. The input will be validated automatically if no change is made for five seconds. The ps.ax prescaling value X (mantissa) of input A setting will be displayed again.

**Note** Press the Mode Key to enter the set value immediately. The ps.ax prescaling value X (mantissa) of input A setting will be displayed for setting the next parameter.

Set Value LED Display Model      Basic Model



7. Press the Mode Key to display the ps.ay prescaling value Y (exponent) of input A setting.

Set Value LED Display Model

Basic Model



8. Press the Shift Key to display the set value 10-1 for changing.

Set Value LED Display Model

Basic Model



9. Press the Up and Shift Keys to set the value to 10 -1. The input will be validated automatically if no change is made for five seconds. The ps.ay prescaling value Y (exponent) of input A setting will be displayed again.

- Note** a) Press the Mode Key to enter the set value immediately. The decp decimal point position setting will be displayed again.
- b) If the set operating mode is F2 through F5, the ps.bx prescaling value X (mantissa) of input B setting will be displayed.

Set Value LED Display Model

Basic Model

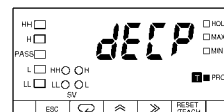
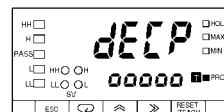


10. Press the Mode Key to display the decp decimal point position setting.

- Note** If the set operating mode is F2 through F5, the ps.bx prescaling value X (mantissa) of input B setting will be displayed.

Set Value LED Display Model

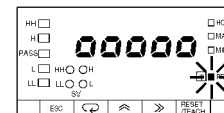
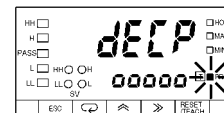
Basic Model



11. Press the Shift Key to display % % % % % for changing.

Set Value LED Display Model

Basic Model



12. Press the Shift Key to set %%%%.%. The input will be validated automatically if no change is made for five seconds. The decp decimal point position setting will be displayed again.

**Note** Press the Mode Key to enter the set value immediately. The p.bank prescaling bank setting will be displayed for setting the next parameter.

