(65) Printing bar codes. (GS kn 1 Dn NUL)

Code: [1D] h + [6B] h + n1 + Ds + [00] h 1
$0 \leq n1 \leq 6$ Data are expressed in Hex code.
Code: [1D] h + [6B] h + n1 + s + Ds 2
$41 \leq n1 \leq 49$
* Data are expressed in Hex code.

This command selects the bar code system and carries out printing.

- The head of the line is made the next printing start position.
- n is as follows.

In the case of (1)

m	Bar Code System	s Definition Range	D Definition Range
0	UPC-A	$B \leq s \leq C$	$30 \leq D \leq 39$
1	UPC-E	$B \leq s \leq C$	$30 \leq D \leq 39$
2	JAN13 (EAN)	$C \leq s \leq C$	$30 \leq D \leq 39$
3	JAN8 (EAN)	$7 \leq s \leq 8$	$30 \leq D \leq 39$
4	CODE39	$1 \leq s$	$30 \leq D \leq 39$, $41 \leq D \leq 5A$, 20, 24, 25, 2B, 2D, 2E, 2F
5	ITF	$1 \leq s$ (however, an even number)	$30 \leq D \leq 39$
6	CODABAR	$1 \leq s$	$30 \leq D \leq 39$, $41 \leq D \leq 5A$, 24, 2B, 2D, 2E, 2F, 3A

In the case of (2)

m	Bar Code System	s Definition Range	D Definition Range
41h	UPC-A	$B \leq s \leq C$	$30 \leq D \leq 39$
42h	UPC-E	$B \leq s \leq C$	$30 \leq D \leq 39$
43h	JAN13 (EAN)	$C \leq s \leq C$	$30 \leq D \leq 39$
44h	JAN8 (EAN)	$7 \leq s \leq 8$	$30 \leq D \leq 39$
45h	CODE39	$1 \leq s \leq FF$	$30 \leq D \leq 39$, $41 \leq D \leq 5A$, 20, 24, 25, 2B, 2D, 2E, 2F
46h	ITF	$1 \leq s$ (Even Number)	$30 \leq D \leq 39$
47h	CODABAR	$1 \leq s \leq FF$	$30 \leq D \leq 39$, $41 \leq D \leq 5A$, 24, 2B, 2D, 2E, 2F, 3A
48h	CODE93	$1 \leq s \leq FF$	$0 \leq s \leq 7F$
49h	CODE128	$2 \leq s \leq FF$	$0 \leq s \leq 7F$

In the case of (1):

- This command is ended by a NULL code.
- In the case of UPC-A and UPC-E, the bar code is printed at the point when 12 bytes of bar code data have been input, then data following next are processed as ordinary data.
- In the case of JAN13, the bar code is printed at the point when 13 bytes of bar code data have been input, then data following next are processed as ordinary data.
- In the case of JAN8, the bar code is printed at the point when 8 bytes of bar code data have been input, then data following next are processed as ordinary data.
  The number of data in an ITF bar code is always an even number. If the number of data should happen to be odd, the final data are disregarded.

In the case of (2):

- s indicates the number of data. Then from the next data, n bytes are processed as bar code data.
- If s deviates from the definition range, command processing is terminated and processing of data from the next data is as for processing of ordinary data.

In the case of the Standard mode:

- If D deviates from the definition range, a paper feed only is executed and processing of data from the next data is as for processing of ordinary data.
- If the horizontal width of a bar code exceeds the one line printing range, the bar code is not printed, but a paper feed only is executed.
- Paper feed by the amount of the bar code height (including HRI characters when HRI characters are specified) is executed without relationship to the line feed amount set by ESC 3, ESC 2, etc.
- This command is disregarded when data exist in the print buffer.
- When character code Dn is a character that cannot be printed, subsequent data are treated as ordinary characters.
- After printing of a bar code is completed, the head of the line is made the next print position.
- Except for inverted characters, the print mode (bold characters, double strike characters, underline, character size) has no influence.

In the case of Page Mode:

- Development of the bar code only is executed and printing is not done. When development of the bar code is completed, the next dot after the last bar code data is made the development start position for the next data.
- If D deviates from the definition range, command processing is terminated and processing of the next data is the same as for ordinary data.
- At this time, the data development start position is not shifted.
- If the horizontal width of a bar code exceeds the print area, the bar code is not printed and the data development start position is moved to the left edge of the place where it deviated from the print area.