

LONG RANGE  
CCD  
**BARCODE  
SCANNER**  
**USER  
MANUAL**  
460873



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# Introduction

## 1.1 General

SG300RFM has been factory configured with a set of default parameters. All factory default settings are shown with <> and bold in the following sections. You may make your own settings by following procedures in this manual. If you want to save the settings permanently, you should scan the Bar Code of “Save Parameters” in chapter 2, otherwise the settings will not be saved after the scanner power is off, and all settings will back to previous settings.

By scanning “Set all default” Bar Code, the settings will go back to the factory default settings.

## 1.2 EMI certificated



CE standards

The CE mark as shown here indicates this product had been tested in accordance with the procedures given in European Council Directive 89/336/EEC and confirmed to comply with the Europe an Standard EN55022:1994/ A1: 1995 Class B, EN 55024/1998.

## 1.3 Legislation and WEEE symbol



LEGISLATION AND WEEE SYMBOL

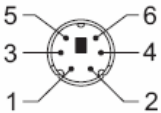
This marking shown on the product or its literature, indicates that it should not be disposed with other households wastes at the end of its working life. To prevent possible harm to the environment or human healthy from uncontrolled waste disposal , please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of when and how they can take this item fore environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase.

## 1.4 Pin Assignment

### 1.4.1 PC Keyboard Output

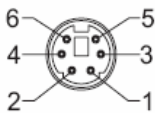
#### MiniDIN 6 MALE

Pin No.	Function
1	HOST DATA
3	GND
4	Vcc
5	HOST CLK



#### MiniDIN 6 FEMALE

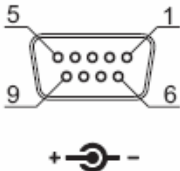
Pin No.	Function
1	KB DATA
3	GND
4	Vcc
5	KB CLK



### 1.4.2 RS-232 Output

#### RS-232 Output DB 9 Female

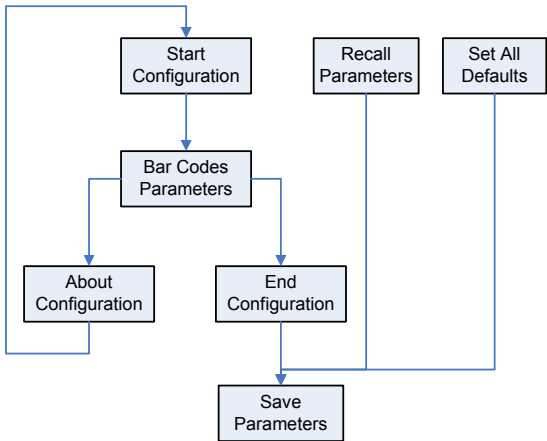
Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)






# 2

## How to Configure

### 2.1 Flow Chart



### 2.2 General Process

Step1	Power on the scanner and cradle	
Step2	Scan Start of configuration	 %\$+/3
Step3	Scan the barcodes for the desired features before scan End.	
Step4	Scan End of configuration	 %\$+/4
Step5	Save The settings will be saved permanently.	 %\$+/0

## 2.3 Start Over

---

Abort configuration



%\$+/6

---

Scan Abort configuration when you want to terminate current programming status.

## 2.4 Recall

---

Replace the current parameters by the parameters saved last time.



%\$+/1

---

## 2.5 Set All Default

---

Set all the parameters to the factory default settings.



%\$+/2

---

## 2.6 Version Information

---

Display the decoder version information and date code.



%\$+/5

---

# Operation



## 3.1 Beeper Option

<High>	
	%01J3
Medium	
	%01J2
Low	
	%01J1
Off	
	%01J0

## 3.2 Output Characters



This function is related to the software of the host.  
The output results will be affected by the software.

<b>None</b>	
Data are displayed continuously	%7S7+
<b>&lt;CR+LF&gt;</b>	
The cursor moves to the left once data are displayed, and it will move to the next line when the next data is ready to be displayed. (This function is related to the software of the host, and the results will be affected by the software)	%7S2+



---

**Enable CR Suffix** – The scanner transmits a carriage return after each scan. The cursor moves to the left once data are displayed.

---



**Enable LF Suffix** – The scanner transmits a line feed after each scan. The cursor moves to the next line once data are displayed.

---



**Enable Space**  
Once data are displayed, the cursor will skip a space to get ready for the next data.

---



**Enable Tab(HT)**  
Once data are displayed, the cursor will skip a tab to get ready for the next data.

---



**Enable ALT Method**  
Send Character by Alt method  
Once this function is activated, no matter the keyboard is locked or unlocked, the output characters will not be affected by the keyboard settings.  
This function is only applicable when the scanner is used with PC.

---



**<Disable ALT Method>**

---



---

**Number as keypad data**

Once this function is activated, the output of the scanning comes from the numerical pad's code.



%01K4

---

**<number as normal data>**

%01K0

---

**Enable STX-ETX**

Before displaying a data, this function will add a STX ASCII code in front of the data, and an ETX ASCII code at the end of the data. This function is only limited to RS232 interface.



%7S5+

---

### 3.3 Reverse Output Characters



Example: 012345→543210

---

**Enable**

%03H1

---

**<Disable>**

%03H0

---

### 3.4 Upper/Lower Case

---

**<No Change>**

The case of the output characters does not change.



%0330

---

**Enable Lower Case Output**  
characters in lower case.

%0332

The results will be affected by the keyboard settings. Thus,

---

please lock the keyboard  
before testing the scanner.

---

### Enable Upper Case

Output characters in upper case. The results will be affected by the keyboard settings. Thus, please lock the keyboard before testing the scanner.

---



%0331

### Enable CapsLock Detection



%0X88

### Disable CapsLock Detection



%0X80

---

## 3.5 Interscan Code Delay



Delay the characters output time.

### <No Delay>



%0070

### 5 msec



%0071

### 10 msec



%0072

### 25 msec



%0073

### 50 msec



%0074

### 100 msec



%0075

---

---

200 msec



%0076

---

300 msec



%0077

---

# 4

## Code Type

### 4.1 Code Selection

If “Enable” is selected for all the barcode types, then the scanner could read all types of barcode. If “Disable” is selected for a certain barcode type, then the scanner could not read the particular barcode. The symbol of “< >” means default settings.

**Enable All Bar Codes**



%1A/+

**<Enable UPC-A>**



%0A44

**Disable UPC-A**



%0A40

**<Enable UPC-E>**



%0B08

**Disable UPC-E**



%0B00

**<Enable EAN-13 / JAN-13>**

















%0A22

**Disable EAN-13 / JAN-13**



%0A20

<b>&lt;Enable EAN-8 / JAN-8&gt;</b>	 %0A11
<b>Disable EAN-8 / JAN-8</b>	 %0A10
<b>&lt;Enable CODE 39&gt;</b>	 %0E08
<b>Disable CODE 39</b>	 %0E00
<b>&lt;Enable CODE 128&gt;</b>	 %0F08
<b>Disable CODE 128</b>	 %0F00
<b>&lt;Enable CODABAR/NW7&gt;</b>	 %0J08
<b>Disable CODABAR/NW7</b>	 %0J00
<b>&lt;Enable Interleave 25&gt;</b>	 %0G08
<b>Disable Interleave 25</b>	 %0G00
<b>Enable Industrial 25</b>	 %0H08
<b>&lt;Disable Industrial 25&gt;</b>	 %0H00
<b>Enable Matrix 25</b>	 %0I08
<b>&lt;Disable Matrix 25&gt;</b>	 %0I00

<b>Enable CODE 93</b>	 %0K08
<b>&lt;Disable CODE 93&gt;</b>	 %0K00
<b>Enable CODE 11</b>	 %0L08
<b>&lt;Disable CODE 11&gt;</b>	 %0L00
<b>Enable China Postage</b>	 %0M08
<b>&lt;Disable China Postage&gt;</b>	 %0M00
<b>Enable MSI/PLESSE</b>	 %0N08
<b>&lt;Disable MSI/PLESSE&gt;</b>	 %0N00
<b>Enable CODE 2 OF 6</b>	 %0P08
<b>&lt;Disable CODE 2 OF 6&gt;</b>	 %0P00
<b>Enable Telepen</b>	 %0T08
<b>&lt;Disable Telepen&gt;</b>	 %0T00
<b>LCD25</b>	 %0Q08
<b>&lt;Disable LCD25&gt;</b>	 %0Q00

<b>RSS-14</b>	 <i>%0U08</i>
<b>&lt;Disable RSS-14&gt;</b>	 <i>%0U00</i>
<b>RSS Limited</b>	 <i>%0V08</i>
<b>&lt;Disable RSS Limited&gt;</b>	 <i>%0V00</i>
<b>RSS Expanded</b>	 <i>%0W08</i>
<b>&lt;Disable RSS Expanded&gt;</b>	 <i>%0W00</i>



## 4.2 Bar Code ID



With this function on, a leading character will be added to the output string while scanning code; user may refer to the following table to know what kind of barcode is being scanned.

Enable Bar Code ID	 %00H1
Disable Bar Code ID	 %00H0
Default	 %913+

Code Type	ID	Code Type	ID
UPC-A	A	UPC-E	B
EAN-8	C	EAN-13	D
Code 39	E	CODE 128	F
Interleave 25	G	Industrial 25	H
Matrix 25	I	Codabar/NW7	J
CODE 93	K	CODE 11	L
China Postage	M	MSI/PLESSEY	N
Telepen	T	Code 2 of 6	P
RSS-14	U	RSS Limited	V
RSS Expanded	W		

### 4.3 User Define Code ID



User define code ID will override default value. It is possible to have more than two symbologies which have same code ID

Step1 Scan the Bar Code You wish to define

Step2 Go to ASCII Table Appendix B, scan Bar Code(s) that represents the desired code ID

UPC-A



%91A+

UPC-E



%91B+

EAN-13/JAN-13



%91Y+

EAN-8/JAN-8



%91Z+

CODE 39



%91E+

CODE 128



%91F+

CODABAR/NW7



%91J+

Interleave 25



%91G+

Industrial 25



%91H+

Matrix 25
















%91I+

CODE 93	 %91K+
CODE 11	 %91L+
China Postage	 %91M+
MSI/PLESSEY	 %91N+
Code 2 of 6	 %91P+
Telepen	 %91T+
LCD25	 %91Q+
Reserved 5	 %91R+
Reserved 6	 %91S+
RSS-14	 %91U+
RSS Limited	 %91V+
RSS Expanded	 %91W+





## 4.4 UPC/EAN/JAN

### > Reading Type

<b>Enable UPC-A= EAN 13</b> add 0 before UPC-A to make it 13 digits.	 %0AK4
<b>&lt;Disable UPC-A = EAN 13&gt;</b>	 %0AK0
<b>Enable ISBN-10</b> =Disable ISBN-13	 %0B88
<b>&lt;Disable ISBN-10&gt;</b> =Enable ISBN-13	 %0B80
 If you need to use ISBN-13, Please turn on EAN 13 Check Digit Transmission Function as well.	
<b>Enable ISSN</b>	 %0B44
<b>&lt;Disable ISSN&gt;</b>	 %0B40
<b>Decode with Supplement</b>	 %0100
<b>&lt;Auto discriminate supplement&gt;</b>	 %0108
<b>Enable Expand UPC-E</b>	 %0BH1
<b>&lt;Disable Expand UPC-E&gt;</b>	 %0BH0
<b>Enable EAN-8→EAN-13</b>	 %0A08
<b>&lt;Disable EAN-8→EAN-13&gt;</b>	 %0A00





Enable GTIN format	 %OX44
<Disable GTIN format>	 %OX40






## > Supplemental Setup

<No Supplement Required>	 %OB33
Enable 2 Digit Supplemental	 %OB31
Enable 5 Digit Supplemental	 %OB32
Enable 2 & 5 Digit Supplemental	 %OB30

## > Check Digit Transmission

If "Check Digit" is selected, the scanner will transmit the check digit. If "Disable" is selected, the scanner will not transmit the check digit.

<UPC-A Check Digit Transmission>	 %OAI2
Disable UPC-A Check Digit Transmission	 %OAI0
<UPC-E Check Digit Transmission>	 %OBI2
Disable UPC-E Check Digit Transmission	 %OBI0


<b>&lt; EAN-8 Check Digit Transmission&gt;</b>	 %0A88
Disable EAN-8 Check Digit Transmission	 %0A80
<b>&lt; EAN-13 Check Digit Transmission&gt;</b>	 %0AH1
Disable EAN-13 Check Digit Transmission	 %0AH0
<b>&lt; ISSN Check Digit Transmission&gt;</b>	 %0BK4
Disable ISSN Check Digit Transmission	 %0BK0

## 4.5 Code 39

### > Reading Type

<b>&lt; Standard Code 39&gt;</b>	 %0EH1
<b>Full ASCII Code 39</b>	 %0EH0
Enable Italian Pharmacy/Code 32	 %0E88
<b>&lt;Disable Italian Pharmacy/Code 32&gt;</b>	 %0E80

### > Check Digit Transmission

<b>&lt;Do Not Calculate Check Digit&gt;</b>	 %0EM2
---	--

---

**Calculate Check Digit and  
Transmit**



---

**Calculate Check Digit and  
Not Transmit**



## > Output Start / Stop Character



<start/stop character = "\*" >

---

**Enable Start/Stop Character**



---

**<Disable Start/Stop  
Character>**



## > Decode Asterisk

---

**Enable Decode Asterisk**

The scanner will decode the  
"\*" symbol in code 39.



---

**<Disable Decode Asterisk>**

The scanner will not decode  
the "\*" symbol in code 39.



## > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths

---

**< Variable >**

The output would be the



---

same as the barcode's length.

There is no limit in length for the reading output.

---

### Fix Length (2 sets Available)

---

1 1<sup>st</sup> Set Begin



%4E00

---

2 Decimal Value

Appendix A

---

3 1<sup>st</sup> Set Complete



%4E01

---

1 2<sup>nd</sup> Set Begin



%4E00

---

2 Decimal Value

Appendix A

---

3 2<sup>nd</sup> Set Complete



%4E02

---

### Minimum Length

---

1 Minimum Length

Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.



%2+-1

---

2 Decimal Value

Appendix A

---

3 Minimum Length Complete



%2C0+

---



## 4.6 Code 128

### > Check Digit Transmission

---

Do Not Calculate Check

Digit



%0FN1

Calculate Check Digit and

Transmit



%0FN7

<Calculate Check Digit and

Not Transmit>



%0FN5

### > Append FNC2

---

“FNC2” is a multi codes-connection function for Code 128. Sometimes a Code 128 is divided into two barcodes for large amount of data.

**Enable FNC2**

“ON” means after reading a code 128 barcode with FNC2, you must read the next Code 128 barcode with FNC2 in order to have a complete code output.



%0F88

**<Disable FNC2>**

means reading only one Code 128 barcode.



%0F80

### > Setup Code Length

---



1. Scan the “Set Begin” Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the Complete Bar Code
- Repeat Steps 1-3 to set additional lengths

---

**< Variable >**

The output would be the same as the barcode's length.

There is no limit in length for the reading output.

---



%4F1+

---

**Fix Length (2 sets Available)**

---

1      **1st Set Begin**



%4F00

---

2      **Decimal Value**

**Appendix A**

---

3      **1<sup>st</sup> Set Complete**



%4F01

---

1      **2<sup>nd</sup> Set Begin**



%4F00

---

2      **Decimal Value**

**Appendix A**

---

3      **2<sup>nd</sup> Set Complete**



%4F02

---

---

**Minimum Length**

---

1      **Minimum Length**

Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.




%2+-1

---

2      **Decimal Value**

**Appendix A**

---



3	<b>Minimum Length Complete</b>	 %2C1+
---	------------------------------------	--

## 4.7 Interleave 25

### > Check Digit Transmission

<b>&lt;Do not Calculate Check Digit&gt;</b>	 %0GN3
<b>Calculate Check Digit and Transmit</b>	 %0GN7
<b>Calculate Check Digit and Not Transmit</b>	 %0GN5

### > Setup Number of Character

<b>&lt;Set up Digit Number as Even&gt;</b>	 %0G88
<p>“Even” means the Interleave 25 code will be output in even numbers.</p>	
<b>Set up Digit Number as Odd</b>	 %0G80
<p>“Odd” means odd numbers.</p>	

## > Brazilian Banking Code

Enable Brazilian Banking



Code

%0G44

<Disable Brazilian Banking



Code>

%0G40

## > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths

< Variable >



The output would be the same as the barcode's length. There is no limit in length for the reading output.

%4G1+

Fix Length (2 sets Available)

1 1st Set Begin



%4G00

2 Decimal Value

Appendix A

3 1<sup>st</sup> Set Complete



%4G01

1 2<sup>nd</sup> Set Begin



%4G00

2 Decimal Value

Appendix A

3 2<sup>nd</sup> Set Complete



%4G02

---

## Minimum Length

---

- 1 **Minimum Length**
- Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.
- 



- 2 **Appendix A**
- 

- 3 **Minimum Length Complete**
- 



## 4.8 Industrial 25

### > Check Digit Transmission

- <Do not Calculate Check Digit>
- 




- Calculate Check Digit and Transmit
- 



- Calculate Check Digit and Not Transmit
- 



### > Setup Code Length

-  1. Scan the "Set Begin" Bar Code (2 Sets Available)
2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
3. Scan the Complete Bar Code
- Repeat Steps 1-3 to set additional lengths
- 

- < Variable >

The output would be the same as the barcode's length.

---



---



There is no limit in length for the reading output.

---

### Fix Length (2 Sets Available)

1	<b>1st Set Begin</b>	 %4H00
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>1<sup>st</sup> Set Complete</b>	 %4H01
1	<b>2<sup>nd</sup> Set Begin</b>	 %4H00
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>2<sup>nd</sup> Set Complete</b>	 %4H02

### Minimum Length

1	<b>Minimum Length</b> Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.	 %2+1
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>Minimum Length Complete</b>	 %2C3+

## > IATA 25

Enable IATA 25



%OH44

<Disable IATA 25>



%OH40

## 4.9 Matrix 25

### > Check Digit Transmission

<Do not Calculate Check

Digit>



%0IN3

Calculate Check Digit and

Transmit



%0IN7

Calculate Check Digit and

Not Transmit



%0IN5

### > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths

< Variable >

The output would be the same as the barcode's length. There is no limit in length for the reading output.





%4I1+

Fix Length (2 Sets Available)


1	<b>1st Set Begin</b>	 %4I00
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>1<sup>st</sup> Set Complete</b>	 %4I01
1	<b>2<sup>nd</sup> Set Begin</b>	 %4I00
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>2<sup>nd</sup> Set Complete</b>	 %4I02

### Minimum Length


1	<b>Minimum Length</b>  Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.	 %2+1
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>Minimum Length Complete</b>	 %2C4+

## 4.10 CODABAR/NW7

### > Start/Stop

<b>Enable Start/Stop characters</b>	 %0JH1
-------------------------------------	--



<b>&lt;Disable Start/Stop characters&gt;</b>	 %0JH0
--	--

## > Transmission Type of Start/Stop

<b>&lt;A/B/C/D&gt;&lt;Start&gt;</b>	 %04VF
<b>&lt;A/B/C/D&gt;&lt;Stop&gt;</b>	 %04FF
<b>A Start</b>	 %04V1
<b>A Stop</b>	 %04F1
<b>B Start</b>	 %04V2
<b>B Stop</b>	 %04F2
<b>C Start</b>	 %04V4
<b>C Stop</b>	 %04F4
<b>D Start</b>	 %04V8
<b>D Stop</b>	 %04F8

## > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths

### < Variable >

The output would be the same as the barcode's length. There is no limit in length for the reading output.



%4J1+

### Fix Length (2 Sets Available)

1 1st Set Begin



%4J00

2 Decimal Value

Appendix A

3 1st Set Complete



%4J01

1 2nd Set Begin



%4J00

2 Decimal Value

Appendix A

3 2nd Set Complete



%4J02

### Minimum Length

1 Minimum Length

Set a minimum length for codes. If the length of a code is shorter than the minimum length, then



%2+1

the scanner will not  
output the data.

<b>2</b>	<b>Decimal Value</b>	<b>Appendix A</b>
----------	----------------------	-------------------

<b>3</b>	<b>Minimum Length Complete</b>	
----------	------------------------------------	--



## 4.11 Code 93

### > Check Digit Transmission

<b>&lt; Calculate Check 2 Digit &amp; not Transmit&gt;</b>		
--	--	--



<b>Do not Calculate Check Digit</b>		
---	--	--



### > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths

<b>&lt; Variable&gt;</b>		
--------------------------	--	--

The output would be the same as the barcode's length.  
There is no limit in length for the reading output.



**Fix Length (2 Sets Available)**



<b>1</b>	<b>1st Set Begin</b>	
----------	----------------------	--



<b>2</b>	<b>Decimal Value</b>	<b>Appendix A</b>
----------	----------------------	-------------------

3	<b>1<sup>st</sup> Set Complete</b>	 %4K01
1	<b>2<sup>nd</sup> Set Begin</b>	 %4K00
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>2<sup>nd</sup> Set Complete</b>	 %4K02

### Minimum Length

1	<b>Minimum Length</b> Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.	 %2+1
2	<b>Decimal Value</b>	<b>Appendix A</b>
3	<b>Minimum Length Complete</b>	 %2C6+

## 4.12 Code 11

### > Check Digit Transmission

<b>&lt;Do not Calculate Check Digit&gt;</b>	 %0LN3
<b>Calculate Check 1 Digit and Transmit</b>	 %0LN7
<b>Calculate Check 1 Digit and Not Transmit</b>	 %0LN5

Calculate Check 2 Digit and Transmit	 %0LN6
Calculate Check 2 Digit and Not Transmit	 %0LN4

## > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths

### < Variable >

The output would be the same as the barcode's length. There is no limit in length for the reading output.



### Fix Length (2 Sets Available)

1	1st Set Begin	 %4L00
2	Decimal Value	Appendix A
3	1 <sup>st</sup> Set Complete	 %4L01
1	2 <sup>nd</sup> Set Begin	 %4L00
2	Decimal Value	Appendix A
3	2 <sup>nd</sup> Set Complete	 %4L02

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## Minimum Length

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### 1 Minimum Length

Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.



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### 2 Decimal Value

### Appendix A

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### 3 Minimum Length

Complete



## 4.13 MSI/PLESSEY Code

### > Check Digit Transmission

<Do not Calculate Check

Digit>



Calculate Check Digit and

Transmit



Calculate Check Digit and

Not Transmit



### > Setup Code Length



1. Scan the "Set Begin" Bar Code (2 Sets Available)
  2. Go to Decimal Value Table in Appendix A, scan Bar Code(s) that represents the code length
  3. Scan the "Complete" Bar Code
- Repeat Steps 1-3 to set additional lengths
-

---

**< Variable >**

The output would be the same as the barcode's length. There is no limit in length for the reading output.

---



%4N1+

---

**Fix Length (2 Sets Available)**

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1      **1st Set Begin**



%4N00

---

2      **Decimal Value**

**Appendix A**

---

3      **1<sup>st</sup> Set Complete**



%4N01

---

1      **2<sup>nd</sup> Set Begin**



%4N00

---

2      **Decimal Value**

**Appendix A**

---

3      **2<sup>nd</sup> Set Complete**



%4N02

---

**Minimum Length**

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1      **Minimum Length**

Set a minimum length for codes. If the length of a code is shorter than the minimum length, then the scanner will not output the data.

---



%2+/-

---

2      **Decimal Value**

**Appendix A**

---

3      **Minimum Length Complete**



%2C9+

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