

# Keyence BL180



**Manufacturer:** Keyence Corporation  
**Model Number:** Keyence-BL180  
**Web Address:** [www.keyence.com](http://www.keyence.com)

BL-180 series CCD barcode readers boast a speed of 500 scans per second, which is among the fastest in its class. Despite their small size, all BL-180 models have built-in decoders. The high-resolution of BL-180 series can read bars as narrow as 0.125 mm. It can be set to decode the following code types: CODE39, ITF, Industrial 2-of-5, COOP 2-of-5, Codabar, CODE 128, EAN/UPC (-A and -E).

## Scanner: Commands

- ▶ **SSET( )** - Enters the setting mode.
- ▶ **SAVE( )** - Saves all the settings in EEPROM.
- ▶ **SEND( )** - Quits the setting mode.
- ▶ **CODE( codeNumber, barcodeType )** - Sets the barcode type for the specified code.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
barcodeType	Integer	Barcode type. 0: CODE39, 1: ITF, 2: Industrial2-of-5, 3: Codabar, 4: UPC/EAN, 5: CODE128, 6: COOP2-of-5, 7: None Range of values: <b>0</b> to <b>7</b> .

- ▶ **MAX( codeNumber, readableDigits )** - Sets the maximum number of readable digits.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
readableDigits	Integer	Maximum number of readable digits. Range of values: <b>1</b> to <b>32</b> .

- ▶ **MIN( codeNumber, readableDigits )** - Sets the minimum number of readable digits.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
readableDigits	Integer	Minimum number of readable digits. Range of values: <b>1</b> to <b>32</b> .

- ▶ **WC00( codeNumber, enableCharacter )** - Enables start/stop character for CODE39.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
enableCharacter	Integer	0: disable start/stop character, 1: enable start/stop character. Range of values: <b>0</b> to <b>1</b> .

- ▶ **WC01( codeNumber, enableInspection )** - Enables inspection of check digit for CODE39.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
enableInspection	Integer	0: disable inspection of check digit, 1: enable inspection of

		check digit. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC02( codeNumber, enableSending )** - Enables sending of check digit for CODE39.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableSending	Integer	0: disable sending of check digit, 1: enable sending of check digit. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC10( codeNumber, enableInspection )** - Enables inspection of check digit for ITF.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableInspection	Integer	0: disable inspection of check digit, 1: enable inspection of check digit. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC11( codeNumber, enableSending )** - Enables sending of check digit for ITF.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableSending	Integer	0: disable sending of check digit, 1: enable sending of check digit. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC30( codeNumber, enableCharacter )** - Enables start/stop character for Codabar.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableCharacter	Integer	0: disable start/stop character, 1: enable start/stop character. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC31( codeNumber, characterType )** - Sets start/stop character for Codabar.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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characterType	Integer	0: lower case start/stop character, 1: upper case start/stop character. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC32( codeNumber, enableInspection )** - Enables inspection of check digit for Codabar.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableInspection	Integer	0: disable inspection of check digit, 1: enable inspection of check digit. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC33( codeNumber, enableSending )** - Enables sending of check digit for Codabar.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableSending	Integer	0: disable sending of check digit, 1: enable sending of check digit. Range of values: <b>0</b> to <b>1</b> .
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▶ **WC34( codeNumber, enableSending )** - Sets type of check digit for Codabar.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableSending	Integer	0: modulus 16, 1: modulus 11, 2: modulus 10/wait2, 3: modulus 1-/wait3, 4: 7 check DR, 5: modulus 11-A, 6: modulus 10/wait2-A. Range of values: <b>0</b> to <b>6</b> .
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▶ **WC40( codeNumber, enableUPC )** - Enables reading of UPC-E for UPC/EAN.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
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enableUPC	Integer	0: disable reading of UPC-E, 1: enable reading of UPC-E. Range of values: <b>0</b> to <b>1</b> .
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**WC41( codeNumber, enableEAN )** - Enables reading of EAN 8 digits for UPC/EAN.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
enableEAN	Integer	0: disable reading of EAN 8 digits, 1: enable reading of EAN 8 digits. Range of values: <b>0</b> to <b>1</b> .

▶ **WC42( codeNumber, enableJAN )** - Enables reading of JAN 13 digits for UPC/EAN.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
enableJAN	Integer	0: disable reading of JAN 13 digits, 1: enable reading of JAN 13 digits. Range of values: <b>0</b> to <b>1</b> .

▶ **WC43( codeNumber, outputDigits )** - Sets number of UPC-A output digits for UPC/EAN.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
outputDigits	Integer	0: output in 13 digits, 1: output in 12 digits. Range of values: <b>0</b> to <b>1</b> .

▶ **WC44( codeNumber, enableAdding0 )** - Enables adding "0" to UPC-A code for UPC/EAN.

codeNumber	Integer	Code number for the barcode. Range of values: <b>0</b> to <b>3</b> .
enableAdding0	Integer	0: disable adding "0" to UPC-A code, 1: enable adding "0" to UPC-A code. Range of values: <b>0</b> to <b>1</b> .

▶ **LON( )** - Turns the trigger on to start read operation.

▶ **LOFF( )** - Turns the trigger off to terminate read operation.

▶ **BCLR( )** - Clears the data stored in the transmission buffer.

## Scanner Error

🔥 **ScannerError( message )** - Error occurred during command execution.

message	String	Error message for the instrument
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