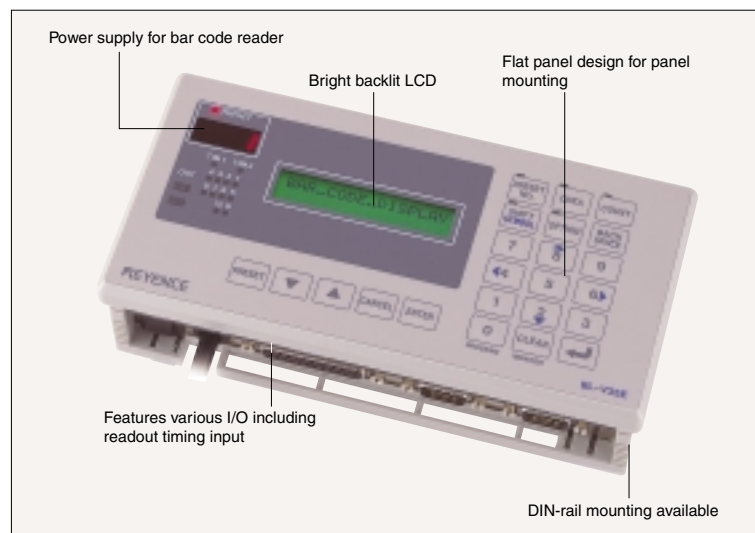# Bar Code Display Interface

BL-V35E Series

Features
● Stores 399 bar codes as preset data.
● Compares the bar code with preset data.
● Any Keyence bar code reader can be directly connected without an external power supply.
● Easy-to-see built-in LCD display

Description

Converts bar code data to ON/OFF control signals and displays bar code data in desired format.

Power supply for bar code reader

Bright backlit LCD

Flat panel design for panel mounting

Features various I/O including readout timing input

DIN-rail mounting available

Available with all KEYENCE bar code readers
The readout timing input makes the BL-V35E far more convenient than conventional models.
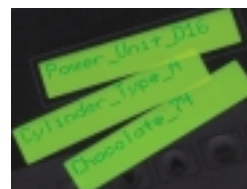

Up to 399 bar codes can be preset
To preset a bar code, just read it with the BL-V35E. A simple-to-operate bar code system can be implemented at low cost.

Easy-to-read character display
The bar code data can be converted into item names. Products can be instantly and reliably checked.
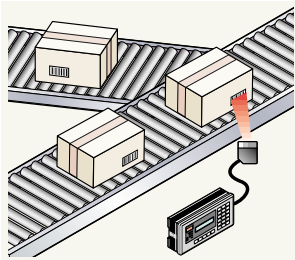

Windows software for easier registration of preset data
An optional setup software BL-H35WE allows the operator to register a lot of preset data using a PC. It can also read the current preset data to edit later.
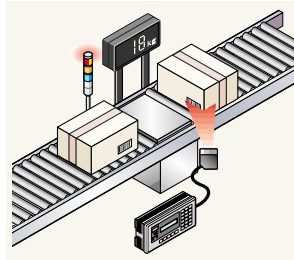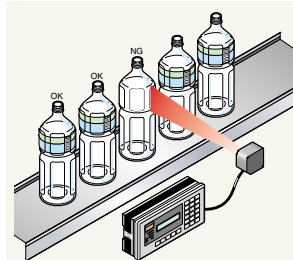
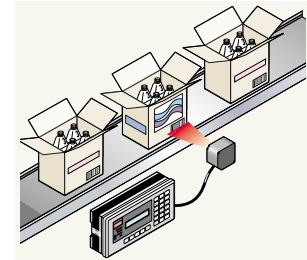**Bar Code Display Interface** **BL-V35E**

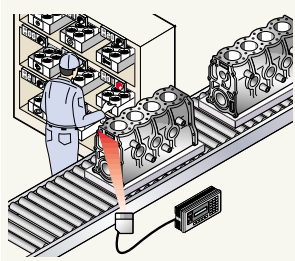## Applications

Automatic sorting on a conveyor line

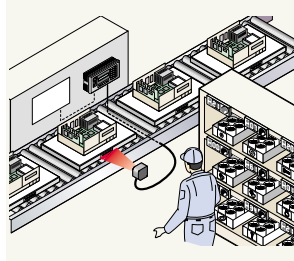Sorting by product weight (Checking for empty packages)

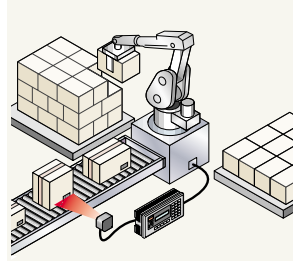Checking for inverted or improperly positioned labels
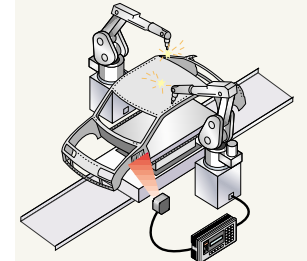

Checking for different types of packages

Engine assembly instructions

PC assembly instructions

Controlling palletization

Controlling welding operation of bodies according to vehicle types

Specifications

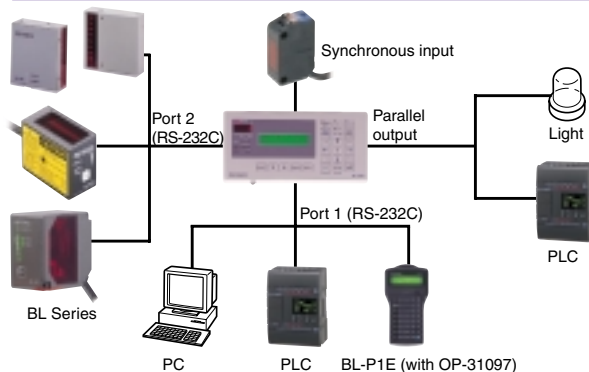| Model	BL-V35E
No. of storable preset data	399 data max.
Memory backup	Lithium battery (Service life: Approx. 10 years at 25°C)
Power supply for bar code reader	5 VDC ±5%, 750 mA max.
Ambient temperature	0 to +50°C
Vibration	10 to 55 Hz, 1.5 mm 0.06" double amplitude in X, Y, and Z directions, 2 hours respectively
Power supply voltage	100 to 120 VAC ±10%, 50/60 Hz
Current consumption	20 VA
Dimensions	192 x 96 x 51 mm 7.56" x 3.78" x 2.01"
Panel cutout	92 x 188 mm 3.62" x 7.40", Panel thickness: 6 mm 0.24" max.
Weight	Approx. 600 g

Interface Details

Parallel interface	**Input (7 points)** [1.]	Non-voltage input (contact, solid-state)	
	Output (12 points): OK output (Matched), NG output (Unmatched), OUT1 to OUT 10 outputs (Output No.)	Output form	NPN open-collector output
		Rated load	30 VDC, 100 mA
		Leakage current at OFF	100 µA max.
		Residual voltage at ON	Less than 1 V
Serial interface (RS-232C)	**Serial 1 (For connecting external device** [2.] **or bar code reader) Serial 2 (Special for connecting bar code reader)**	Synchronization	Start-Stop (Full duplex)
		Transmission code	ASCII
		Baud rate	1200/2400/4800/9600/19200/38400 bps
		Data length	7/8 bits
		Parity check	None/even/odd
		Stop bit length	1 bit/2 bits

1. Two synchronization inputs for bar code readers connected to serial 1 and 2. Five inputs for the same operation as that of the main keys ([Preset], [DOWN], [UP], [Cancel], [Enter]).
2. Can be connected to a personal computer or a PLC (programmable logic controller).

System Configuration

Synchronous input
Port 2 (RS-232C)
Parallel output
Light
Port 1 (RS-232C)
PLC
BL Series
PC
PLC
BL-P1E (with OP-31097)

Dimensions

Unit: mm Inch

Panel cut size

100 to 120 VAC (with plug) Code length: 2 m 6.6'

The resin panel thickness must be 3 mm or more. 0.12"

The panel thickness must be 6 mm or less. 0.24"