

# Weighing Indicator K3HB-V

CSM\_K3HB-V\_DS\_E\_11\_5



## An Ideal Indicator for OK/NG Judgements in Automated and Picking Machines, Measuring Factors such as Pressure, Load, Torque, and Weight Using Load Cell Signal Input.

- Easy recognition of judgement results using color display that can be switched between red and green. \*
- Equipped with a position meter for monitoring operating status trends.
- External event input allows use in various measurement and discrimination applications.
- Input 0.001 mVDC or higher (0.000 to 19.999 mV range supported). External power takeoff of 100 mA at 10 VDC provided. (Models with 5-VDC power takeoff also available.)
- Series expanded to include DeviceNet models.
- Short body with depth of only 95 mm (from behind the front panel), or 97 mm for DeviceNet models.
- UL certification approval (Certification Mark License).
- CE Marking conformance by third party assessment body.
- Water-resistant enclosure conforms to NEMA 4X (equivalent to IP66).
- Capable of high-speed sampling at 50 times per second (20 ms)
- Easy-to-set two-point scaling allows conversion and display of any user-set values.
- \* Visual confirmation of judgement results is not supported on models that do not have an output or models that do not support DeviceNet.  
You can change the display color by setting it, but you cannot switch it based on the judgement results.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

**Refer to Safety Precautions for All Digital Panel Meters.**

## Model Number Structure

### Model Number Legend

Base Units and Optional Boards can be ordered individually or as sets.

#### Base Units

K3HB-V    
1 5

##### 1. Input Sensor Code

LC: Load cell input (DC low-voltage input)

##### 5. Supply Voltage

100-240 VAC: 100 to 240 VAC  
24 VAC/VDC: 24 VAC/VDC

### Optional Boards

#### Sensor Power Supply/Output Boards

K33-  
2

#### Relay/Transistor Output Boards

K34-  
3

#### Event Input Boards

K35-  
4

**Note:** The following combinations are not possible.

- Communications (FLK□B/E) + DeviceNet (DRT)
- Communications (FLK□B/E) + BCD output (BCD)
- Linear current/voltage (L□B/E) + DeviceNet (DRT)

#### Base Units with Optional Boards

K3HB-V       
1 2 3 4 5

##### 2. Sensor Power Supply/Output Type Code

- None: None  
CPB: Relay output (PASS: SPDT) + Sensor power supply (10 VDC +/-5%, 100 mA) (See note 1.)  
L1B: Linear current output (0 to 20 or 4 to 20 mA DC) + Sensor power supply (10 VDC +/-5%, 100 mA) (See note 2.)  
L2B: Linear voltage output (0 to 5, 1 to 5, or 0 to 10 VDC) + Sensor power supply (10 VDC +/-5%, 100 mA) (See note 2.)  
B: Sensor power supply (10 VDC +/-5%, 100 mA)  
FLK1B: Communications (RS-232C) + Sensor power supply (10 VDC +/-5%, 100 mA) (See note 2.)  
FLK3B: Communications (RS-485) + Sensor power supply (10 VDC +/-5%, 100 mA) (See note 2.)  
CPE: Relay output (PASS: SPDT) + Sensor power supply (5 VDC +/-5%, 100 mA) (See note 1.)  
L1E: Linear current output (DC0(4) -20 mA) + Sensor power supply (5 VDC +/-5%, 100 mA) (See note 2.)  
L2E: Linear voltage output (DC0(1) -5 V, 0-10 V) + Sensor power supply (5 VDC +/-5%, 100 mA) (See note 2.)  
E: Sensor power supply (5 VDC +/-5%, 100 mA)  
FLK1E: Communications (RS-232C) + Sensor power supply (5 VDC +/-5%, 100 mA) (See note 2.)  
FLK3E: Communications RS-485) + Sensor power supply (5 VDC +/-5%, 100 mA) (See note 2.)

**Note:** 1. CPA can be combined with relay outputs only.  
2. Only one of the following can be used by each Digital Indicator: RS-232C/RS-485 communications, a linear output, or DeviceNet communications.

##### 3. Relay/Transistor Output Type Code

- None: None  
C1: Relay contact (H/L: SPDT each)  
C2: Relay contact (HH/H/LL/L: SPST-NO each)  
T1: Transistor (NPN open collector: HH/H/PASS/L/LL)  
T2: Transistor (PNP open collector: HH/H/PASS/L/LL)  
BCD \*: BCD output + transistor output (NPN open collector: HH/H/PASS/L/LL)  
DRT: DeviceNet (See note 2.)  
\* A Special BCD Output Cable (sold separately) is required.

##### 4. Event Input Type Code

- None: None  
1: 5 inputs (M3 terminal blocks), NPN open collector  
2 \*: 8 inputs (10-pin MIL connector), NPN open collector  
3: 5 inputs (M3 terminal blocks), PNP open collector  
4 \*: 8 inputs (10-pin MIL connector), PNP open collector  
\* There is no bank selection for "None" and "DeviceNet" types of "Transistor Output Type Code".