CSM_K3HB-V_DS_E_10_1

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

Model Number Structure

■ Model Number Legend

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

Base Units

K3HB-V□ [

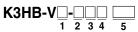
1. Input Sensor Code

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

5. Supply Voltage

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

Base Units with Optional Boards



2. Sensor Power Supply/Output Type Code

L1B:

CPB:

L2B:

FLK1B: FLK3B:

CPE:

L1E:

L2E:

None
Relay output (PASS: SPDT) + Sensor power supply
(10 VDC +/-5%, 100 mA) (See note 1.)
Linear current output (0 to 20 or 4 to 20 mA DC) + Sensor power supply (10 VDC +/-5%, 100 mA) (See note 2.)
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.)
Sensor power supply (10 VDC +/-5%, 100 mA) (See note 2.)
Sensor power supply (10 VDC +/-5%, 100 mA)
Communications (RS-232C) + Sensor power supply
(10 VDC +/-5%, 100 mA) (See note 2.)
Communications (RS-485) + Sensor power supply
(10 VDC +/-5%, 100 mA) (See note 2.)
Relay output (PASS: SPDT) + Sensor power supply
(5 VDC +/-5%, 100 mA) (See note 1.)
Linear current output (DC0(4) -20 mA) + Sensor power supply
(5 VDC +/-5%, 100 mA) (See note 2.)
Linear voltage output (DC0(1) -5 V, 0-10 V)+ Sensor power supply (5 VDC +/-5%, 100 mA) (See note 2.)
Sensor power supply (5 VDC +/-5%, 100 mA)
Communications (RS-232C) + Sensor power supply
(5 VDC +/-5%, 100 mA) (See note 2.)
Communications (RS-232C) + Sensor power supply
(5 VDC +/-5%, 100 mA) (See note 2.)
Communications RS-485) + Sensor power supply
(5 VDC +/-5%, 100 mA) (See note 2.) FLK1E:

FLK3E:

Note: 1. CPA can be combined with relay outputs only.

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

Optional Boards

Sensor Power Supply/Output Boards

K33-L

Relay/Transistor Output Boards

K34-□

Event Input Boards

K35-

- 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)

Accessories (Sold Separately)

K32-DICN: Special Cable (for event inputs, with 8-pin connector) K32-BCD: Special BCD Output Cable

Watertight Cover

	Model	
Y92A-49N		

Rubber Packing

Model
K32-P1
N. I. D. I

Note: Rubber packing is provided with the Controller.

Specifications

■ Ratings

Power supply voltage		100 to 240 VAC (50/60 Hz), 24 VAC/VDC, DeviceNet power supply: 24 VDC	
Allowable power supply v	oltage range	85% to 110% of the rated power supply voltage, DeviceNet power supply: 11 to 25 VDC	
Power consumption (See note 1.)		100 to 240 V: 18 VA max. (max. load) 24 VAC/DC: 11 VA/7 W max. (max. load)	
Current consumption		DeviceNet power supply: 50 mA max. (24 VDC)	
Input		DC voltage	
A/D conversion method		Delta-Sigma method	
External power supply		10 VDC $\pm 5\%$, 100 mA (models with external power supply only) or 5 VDC, 100 mA (models with external power supply only)	
Event inputs (See note 2.)		NPN open collector or no-voltage contact signal ON residual voltage: 3 V max. ON current at 0 Ω : 17 mA max. Max. applied voltage: 30 VDC max. OFF leakage current: 1.5 mA max.	
	Startup compensation timer input	NPN open collector or no-voltage contact signal ON residual voltage: 2 V max.	
	Hold input	ON current at 0 Ω: 4 mA max. Max. applied voltage: 30 VDC max.	
	Reset input	OFF leakage current: 0.1 mA max.	
	Forced-zero input		
	Bank input		
Output ratings (depends on the model)	Relay output	250 VAC, 30 VDC, 5 A (resistive load) Mechanical life expectancy: 5,000,000 operations, Electrical life expectancy: 100,000 operations	
	Transistor output	Maximum load voltage: 24 VDC, Maximum load current: 50 mA, Leakage current: 100 μA max.	
	Linear output	Linear output 0 to 20 mA DC, 4 to 20 mA DC: Load: 500 Ω max, Resolution: Approx. 10,000, Output error: ±0.5% FS Linear output 0 to 5 VDC, 1 to 5 VDC, 0 to 10 VDC: Load: 5 kΩ max, Resolution: Approx. 10,000, Output error: ±0.5% FS (1 V or less: ±0.15 V; no output for 0 V or less)	
Display method		Negative LCD (backlit LED) display 7-segment digital display (Character height: PV: 14.2 mm (green/red); SV: 4.9 mm (green)	
Main functions		Scaling function, measurement operation selection, averaging, previous average value comparison, forced-zero, zero-limit, output hysteresis, output OFF delay, output test, teaching, display value selection, display color selection, key protection, bank selection, display refresh period, maximum/minimum hold, reset	
Ambient operating tempe	rature	−10 to 55°C (with no icing or condensation)	
Ambient operating humid	ity	25% to 85%	
Storage temperature		-25 to 65°C (with no icing or condensation)	
Altitude		2,000 m max.	
Accessories		Watertight packing, 2 fixtures, terminal cover, unit stickers, operation manual. DeviceNet models also include a DeviceNet connector (Hirose HR31-5.08P-5SC(01)) and crimp terminals (Hirose HR31-SC-121) (See note 3.)	

Note: 1. DC power supply models require a control power supply capacity of approximately 1 A per Unit when power is turned ON. Particular attention is required when using two or more DC power supply models. The OMRON S8VS-series DC Power Supply Unit is recommended.

PNP input types are also available.
 For K3HB-series DeviceNet models, use only the DeviceNet Connector included with the product. The crimp terminals provided are for Thin Cables.

■ Characteristics

Display range		-19,999 to 99,999		
Sampling period		20 ms (50 times/second)		
Comparative ou	tput response time	100 ms max.		
Linear output re	esponse time	150 ms max.		
Insulation resis	tance	20 MΩ min. (at 500 VDC)		
Dielectric streng	gth	2,300 VAC for 1 min between external terminals and case		
Noise immunity		100 to 240 VAC models: ±1,500 V at power supply terminals in normal or common mode (waveform with 1-ns rising edge and pulse width of 1 μs/100 ns) 24 VAC/VDC models: ±1,500 V at power supply terminals in normal or common mode (waveform with 1-ns rising edge and pulse width of 1 μs/100 ns)		
Vibration resists	ance	Frequency: 10 to 55 Hz; Acceleration: 50 m/s², 10 sweeps of 5 min each in X, Y, and Z directions		
Shock resistant	e	150 m/s² (100 m/s² for relay outputs) 3 times each in 3 axes, 6 directions		
Weight		Approx. 300 g (Base Unit only)		
Degree of	Front panel	Conforms to NEMA 4X for indoor use (equivalent to IP66)		
protection	Rear case	IP20		
	Terminals	IP00 + finger protection (VDE0106/100)		
Memory protect	ion	EEPROM (non-volatile memory) Number of rewrites: 100,000		
Applicable stan	dards	UL61010-1, CSA C22.2 No. 61010-1-04 EN61010-1 (IEC61010-1): Pollution degree 2/Overvoltage category II EN61326-1		
EMC		EMI: EN61326 industrial applications Electromagnetic radiation interference CISPR 11 Group 1, Class A Terminal interference voltage CISPR 11 Group 1, Class A EMS: EN61326 industrial applications Electrostatic Discharge Immunity EN61000-4-2: 4 kV (contact), 8 kV (in air) Radiated Electromagnetic Field Immunity EN61000-4-3: 10 V/m 1 kHz sine wave amplitude modulation (80 MHz to 1 GHz, 1.4 to 2 GHz) Electrical Fast Transient/Burst Immunity EN61000-4-4: 2 kV (power line), 1 kV (I/O signal line) Surge Immunity EN61000-4-5: 1 kV with line (power line), 2 kV with ground (power line) Conducted Disturbance Immunity EN61000-4-6: 3 V (0.15 to 80 MHz) Power Frequency Magnetic Immunity EN61000-4-8: 30 A/m (50 Hz) continuous time Voltage Dips and Interruptions Immunity EN61000-4-11: 0.5 cycle, 0°/180°, 100% (rated voltage)		

■ Input Ranges (Measurement Range and Accuracy)

Input type	Range	Set value	Measurement range	Input impedance	Accuracy	Allowable instantaneous overload (30 s)
K3HB-VLC	Α	R LC	0.00 to 199.99 mV	1 MΩ min.	±0.1% rdg ±1 digit max.	±200 V
Load Cell, mV	В	P TE	0.000 to 19.999 mV		±0.1% rdg ±5 digits max.	
	С	E LE	±100.00 mV		±0.1% rdg ±3 digits max.	
	D	d LE	±199.99 mV		±0.1% rdg ±1 digit max.	

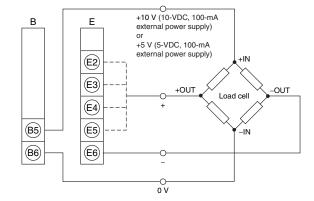
Note: 1. The accuracy is for an ambient temperature of 23±5°C. For all ranges,10% or less of max. input ±0.1% FS.

2. The letters "rdg" mean "reading."

	Input type	A LC	P TE	[[[d LC
	Connected terminals	E2 – E6	E3 – E6	E4 – E6	E 5 – E 6
(mV)	000 000	199.99			199.99
	200.000				
	150.000			100.00	
	100.000		19.999	100.00	
	50.000		19.999		
	0.00				
	-50.00	0.00	0.000		
	-100.00				
	-150.00			-100.00	
	-200.00				
	-200.00				-199.99
Maximu measur	ım rement range	-19.99 to 219.99 mV	-1.999 to 21.999 mV	-110.00 to 110.00 mV	-199.99 to 219.99 mV

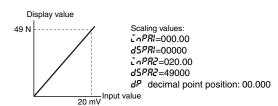
The area shown in dark shading indicates the factory setting.

■ Load Cell Wiring Example



■ Scaling Example Using Range A

Indicated on the K3HB-V as 0 to 49N in the load cell specifications (rated load 49N, recommended applied voltage 10 V, rated output 2 mV/V) (See note.)



Note: "2 mV/V" indicates a load cell output of 2 mV for 1 V applied voltage for the rated load (when using a load of 1 N). When the applied voltage is 10 V, the load cell output is 20 mV (2 mV \times 10).

The precision can be increased by entering the A1 and A2 input values by teaching, and then scaling the results.

Common Specifications

■ Event Input Ratings

Input type	S-TMR, HOLD, RESET, ZERO, BANK1, BANK2, BANK4	TIMING
Contact	ON: 1 k Ω max., OFF: 100 k Ω min.	
	OFF leakage current: 0.1 mA max. Load current: 4 mA max.	ON residual voltage: 3 V max. OFF leakage current: 1.5 mA max. Load current: 17 mA max. Maximum applied voltage: 30 VDC max.

■ Output Ratings

Contact Output

Item	Resistive loads (250 VAC, cosφ=1; 30 VDC, L/R=0 ms)	Inductive loads (250 VAC, closed circuit, cos∮=0.4; 30 VDC, L/R=7 ms)
Rated load	5 A at 250 VAC 5 A at 30 VDC	1 A at 250 VAC 1 A at 30 VDC
Rated through current	5A	
Mechanical life expectancy	5,000,000 operations	
Electrical life expectancy	100,000 operations	

Transistor Output

Maximum load voltage	24 VDC
Maximum load current	50 mA
Leakage current	100 μA max.

Linear Output

Item	0 to 20 mA	4 to 20 mA	0 to 5 V	1 to 5 V	0 to 10 V
Allowable load impedance	500 Ω max.		5 k $Ω$ min.		
Resolution	Approx. 10,000				
Output error	$\pm 0.5\%$ FS (1 V or less: no output for ± 0.15 V; 0 V or less			15 V; 0 V or less)	

Serial Communications Output

Item	RS-232C, RS-485
Communications method	Half duplex
Synchronization method	Start-stop synchronization
Baud rate	9,600, 19,200, or 38,400 bps
Transmission code	ASCII
Data length	7 bits or 8 bits
Stop bit length	2 bits or 1 bit
Error detection	Vertical parity and FCS
Parity check	Odd, even

Note: For details on serial and DeviceNet communications, refer to the *Digital Indicator K3HB Communications User's Manual* (Cat.No. N129).

BCD Output I/O Ratings (Input Signal Logic: Negative)

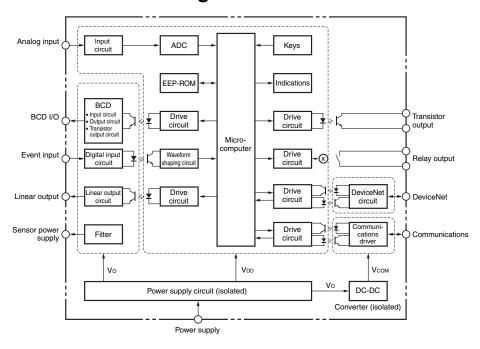
	I/O signal name		Item	Rating
Inputs	REQUEST HOLD	Input signal		No-voltage contact input
	MAX MIN	Input current for no-voltage input		10 mA
	RESET	Signal	ON voltage	1.5 V max.
		level	OFF voltage	3 V min.
Outputs	uts DATA Maximum load POLARITY Voltage			24 VDC
	OVER DATA VALID	Maximum load current		10 mA
	RUN	Leakage current		100 μA max.
	HH H	Maximum load voltage		24 VDC
	PASS L	Maximum load current		50 mA
LL		Leakage current		100 μA max.

Note: For details on serial and DeviceNet communications, refer to the *Digital Indicator K3HB Communications User's Manual* (Cat.No. N129).

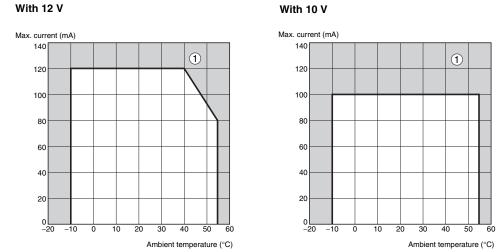
DeviceNet Communications

Communications protocol		Conforms to DeviceNet							
Supported communications	Remote I/O communications	Master-Slave connection (polling, bit-strobe, COS, cyclic) Conforms to DeviceNet communications standards.							
	I/O allocations	All	Allocate any I/O data using the Configurator.						
		Allocate any data, such as DeviceNet-specific parameters and variable area for Digital Indicators. Input area: 2 blocks, 60 words max. Output area: 1 block, 29 words max. (The first word in the area is always allocated for the Output Execution Enabled Flags.)							
	Message communications	Explicit message communications							
		CompoWay/F communications commands can be executed (using explicit message communications)							
Connection methods		Combination of multi-drop and T-branch connections (for trunk and drop lines)							
Baud rate		DeviceNet: 500, 250, or 125 Kbps (automatic follow-up)							
Communications media		Special 5-wire cable (2 signal lines, 2 power supply lines, 1 shield line)							
Communications distance									
			Baud rate	Network length (max.)	Drop line length (max.)	Total drop line length (max.)			
			500 Kbps	100 m (100 m)	6 m	39 m			
			250 Kbps	100 m (250 m)	6 m	78 m			
			125 Kbps	100 m (500 m)	6 m	156 m			
	The values in parentheses are for Thick Cable.								
Communications power supply		24-VDC DeviceNet power supply							
Allowable voltage fluctuation range		11 to 25-VDC DeviceNet power supply							
Current consumption		50	50 mA max. (24 VDC)						
Maximum number of nodes		64 (DeviceNet Configurator is counted as one node when connected)							
Maximum number of slaves		63	63						
Error control checks		CF	CRC errors						
DeviceNet power supp	oly	Su	Supplied from DeviceNet communications connector						

■ Internal Block Diagram

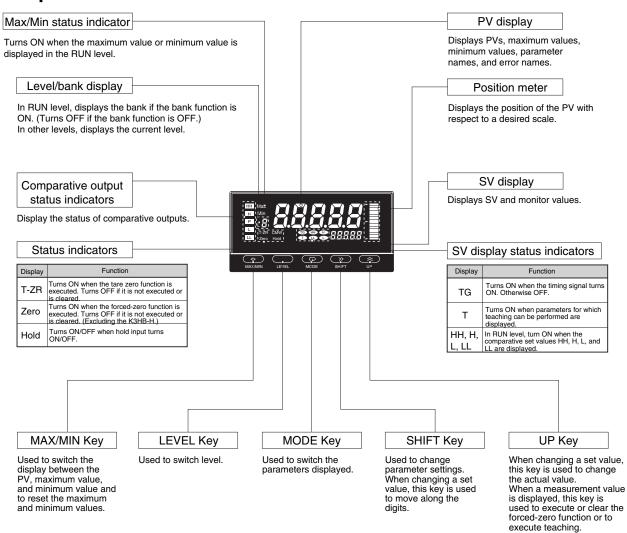


■ Power Supply Derating Curve for Sensor (Reference Value)



- Note: 1. The above values are for standard mounting. The derating curve differs depending on the mounting conditions.
 - 2. Do not use the Sensor outside of the derating area (i.e., do not use it in the area labeled ① in the above graphics). Doing so may occasionally cause deterioration or damage to internal components.

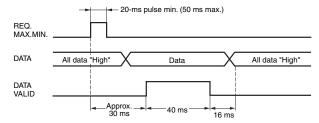
■ Component Names and Functions



■ BCD Output Timing Chart

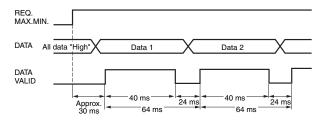
A REQUEST signal from a Programmable Controller or other external device is required to read BCD data.

Single Sampling Data Output



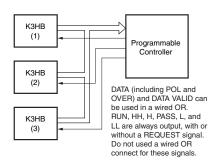
The data is set in approximately 30 ms from the rising edge of the REQUEST signal and the DATA VALID signal is output. When reading the data from a Programmable Controller, start reading the data when the DATA VALID signal turns ON. The DATA VALID signal will turn OFF 40 ms later, and the data will turn OFF 16 ms after that.

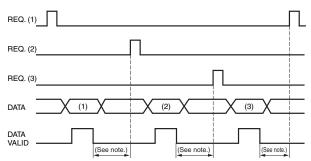
Continuous Data Output



Measurement data is output every 64 ms while the REQUEST signal remains ON.

Note: If HOLD is executed when switching between data 1 and data 2, either data 1 or data 2 is output depending on the timing of the hold signal. The data will not go LOW.



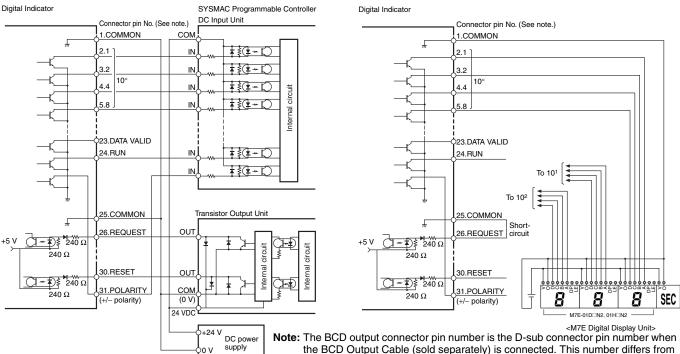


Note: Leave 20 ms min. between DATA VALID turning OFF and the REQUEST signal.

Programmable Controller Connection Example

Display Unit Connection Example

the pin number for the Digital Indicator narrow pitch connector (manufactured by



Refer to the following User's Manual for application precautions and other information required when using the Digital Indicator: K3HB-S/-X/-V/-H Digital Indicator User's Manual (Cat. No. N128)

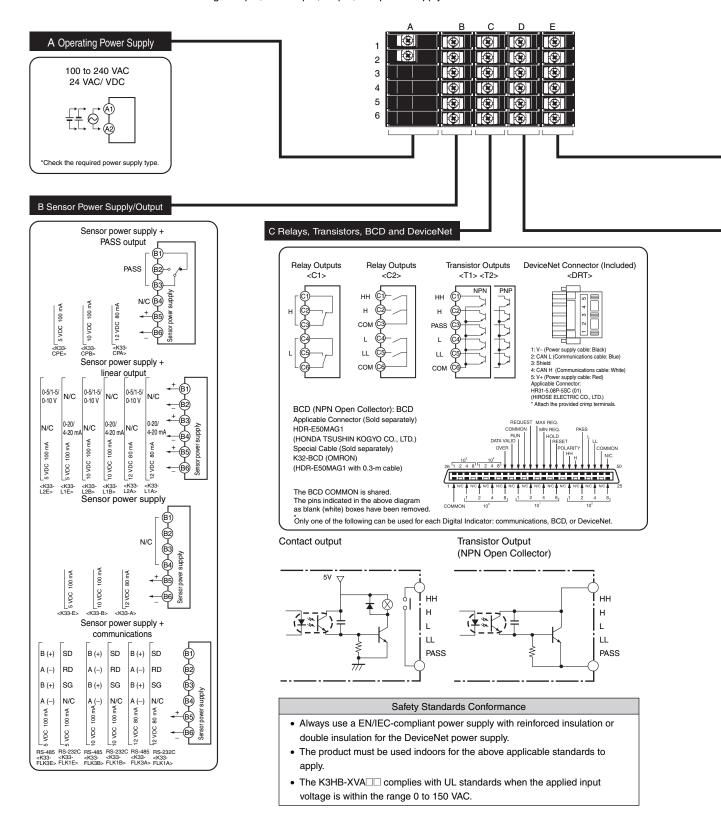
Honda Tsushin Kogyo Co., Ltd.).

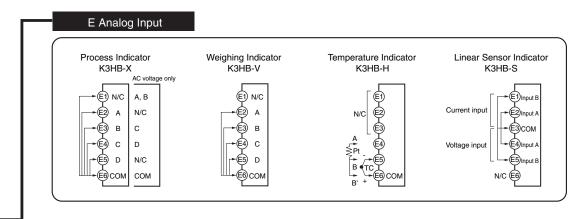
The manual can be downloaded from the following site in PDF format: OMRON Industrial Web http://www.fa.omron.co.jp

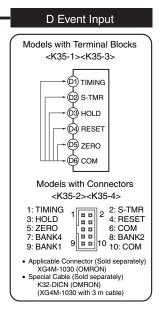
■ Connections

Terminal Arrangement

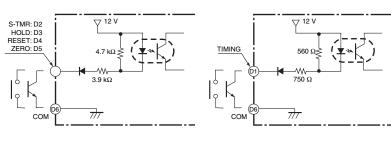
Note: Insulation is used between signal input, event input, output, and power supply terminals.



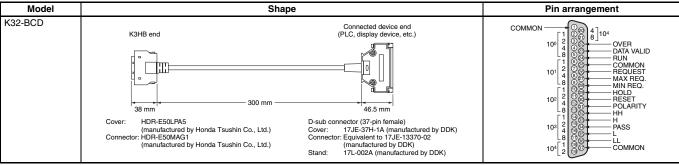




- Use terminal pin D6 as the common terminal.
- Use NPN open collector or no-voltage contacts for event input.
 PNP types are also available.



BCD Output Cable



Note: The BCD Output Cable has a D-sub plug. Cover: 17JE-37H-1A (manufactured by DDK); Connector: equivalent to 17JE-23370-02 (D1) (manufactured by DDK)

Special Cable (for Event Inputs with 8-pin Connector)

Model	Appearance		Wiring	
K32-DICN	9 10 2 3,000 mm Cable marking (3 m)	•	Pin No. 1 2 3 4 5 6 7 8	Signal name N/C S-TMR HOLD RESET N/C COM BANK4 BANK4 BANK1
			10	СОМ

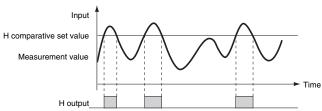
■ Main Functions

Measurement

Timing Hold

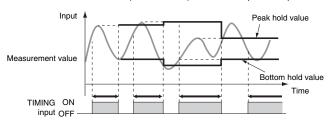
Normal

 Continuously performs measurement and always outputs based on comparative results.



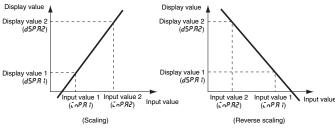
Peak Hold/Bottom Hold

• Measures the maximum (or minimum) value in a specified period.



Scaling

Scaling converts input signals in any way required before displaying them. The values can be manipulated by shifting, inverting, or \pm -reversing.



Teaching

Settings for scaling can be made using the present measurement values instead of inputting values with the SHIFT and UP Keys. This is a convenient function for making settings while monitoring the operating status, for calculating amounts by tare reduction (to measure only the contents), or when the result should be zero but the display is not zero for some reason.

Standby Sequence

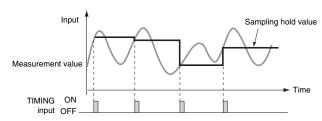
Turns the comparative output OFF until the measurement value enters the PASS range.

Average Processing

Average processing of input signals with extreme changes or noise smooths out the display and makes control stable.

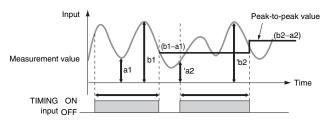
Sampling Hold

• Holds the measurement at the rising edge of the TIMING signal.



Peak-to-peak Hold

Measures the difference between the maximum and minimum values in a specified period.



Previous Average Value Comparison

Slight changes can be removed from input signals to detect only extreme changes.

■ Input Compensation/Display

Forced-zero

Forces the present value to 0. (Convenient for setting reference values or deducting tares for weight measurement.)

Tare Zero

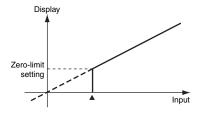
Shifts the current value measured with a forced zero to 0 again. It is possible to measure two or more compounds separately and then, by releasing the tare zero and forced-zero, measure the combined total.

Zero-trimming

Compensates for mild fluctuations in input signals due to factors such as sensor temperature drift, based on OK (PASS) data at measurement. (This function can be used with sampling hold, peak hold, or bottom hold.)

Zero-limit

Changes the display value to 0 for input values less than the set value. It is enabled in normal mode only. (This function can be used, for example, to stop negative values being displayed or to eliminate flickering and minor inconsistencies near 0.)



Interruption Memory

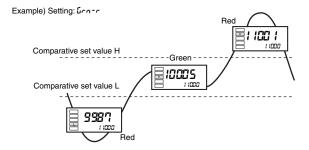
- The minimum and maximum values when the power supply is turned OFF can be saved if interruption memory is turned ON.
- If interruption memory is ON, the maximum and minimum values after the last resetting will be displayed.
- If interruption memory is OFF, the maximum and minimum values will be displayed after the power supply is turned ON (or after the reset input is performed).

Display Refresh Period

The display refresh period can be lengthened to reduce flickering and thereby make the display easier to read.

Display Color Selection

Values can be displayed in either red or green. With comparative output models, the display color can also be set to change according to the status of comparative outputs (e.g., green to red or red to green).



Display Value Selection

The current display value can be selected from the present value, the maximum value, and the minimum value.

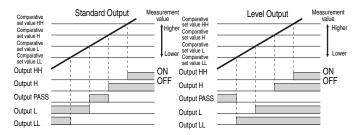
Step Value

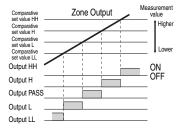
It is possible to specify (i.e., restrict) the values that the smallest displayed digit can change by. For example, if the setting is 2, the smallest digit will only take the values 0, 2, 4, 6, or 8 and if the setting is 5, it will only take the values 0 or 5. If the setting is 10, it will only take the value of 0.

■ Output

Comparative Output Pattern

The output pattern for comparative outputs can be selected. In addition to high/low comparison with set values, output based on level changes is also possible. (Use the type of output pattern appropriate for the application.)





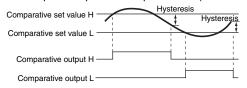
Output Logic

Reverses the output operation of comparative outputs for comparative results.

Hysteresis

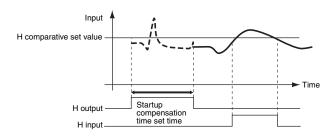
Prevents comparative output chattering when the measurement value fluctuates slightly near the set value.

Example: Comparative Output Pattern (Standard Output)



Startup Compensation Timer

Measurement can be stopped for a set time using external input.

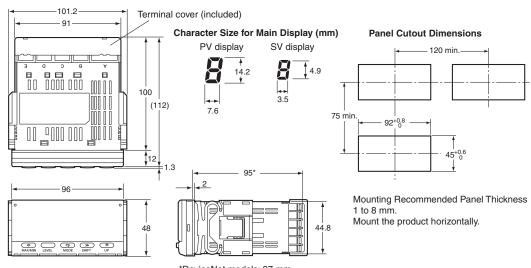


PASS Output Change

Comparative results other than PASS and error signals can be output from the PASS output terminal.

■ Dimensions





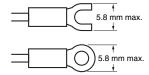
*DeviceNet models: 97 mm Terminal: M3, Terminal Cover: Accessory

■ Wiring Precautions

- For terminal blocks, use the crimp terminals suitable for M3 screws.
- Tighten the terminal screws to the recommended tightening torque of approx. 0.5 N·m.
- To prevent inductive noise, separate the wiring for signal lines from that for power lines.

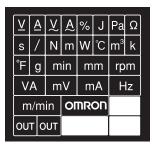
Wiring

• Use the crimp terminals suitable for M3 screws shown below.



Unit Stickers

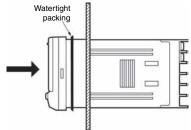
 Select the appropriate units from the unit sticker sheets provided and attach the sticker to the Indicator.



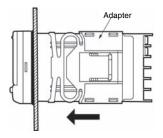
Note: When using for meters, such as weighing meters, use the units specified by regulations on weights and measures.

■ Mounting Method

- 1. Insert the K3HB into the mounting cutout in the panel.
- Insert watertight packing around the Unit to make the mounting watertight.

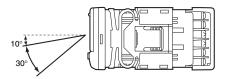


 Insert the adapter into the grooves on the left and right sides of the rear case and push until it reaches the panel and is fixed in place.



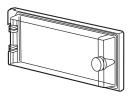
■ LCD Field of Vision

The K3HB is designed to have the best visibility at the angles shown in the following diagram.



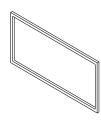
■ Watertight Cover

Y92A-49N



■ Rubber Packing

K32-P1



If the rubber packing is lost or damaged, it can be ordered using the following model number: K32-P1.

(Depending on the operating environment deterioration, contraction, or hardening of the rubber packing may occur and so, in order to ensure the level of waterproofing specified in NEMA4, periodic replacement is recommended.)

Note: Rubber packing is provided with the Controller.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

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2014.2

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OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
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- Тестирование поставляемой продукции.
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- Входной контроль качества.
- Наличие сертификата ISO.

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