Linear Sensor Indicator
K3HB-S

CSM_K3HB-S_DS_E_11_5

Linear Sensor Indicator for High-speed, High-precision Measurement and Discrimination

- Easy recognition of judgement results using color display that can be switched between red and green. ✻
- Equipped with a position meter that represents measured amounts and relative positions.
- Develop a variety of measurement and discrimination applications using external event inputs.
- 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).

✻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.

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

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

Model Number Structure

■ Model Number Legend

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

Base Units

K3HB-S□ □
1 5

1. Input Sensor Code
SD: DC Process input

5. Supply Voltage
100-240 VAC: 100 to 240 VAC
24 VAC/VDC: 24 VAC/VDC

Base Units with Optional Boards

K3HB-S□-□□□ □
1 2 3 4 5

2. Sensor Power Supply/Output Type Code
None: None
CPA: Relay output (PASS: SPDT) + Sensor power supply (12 VDC +/–10%, 80 mA) (See note 1.)
L1A: Linear current output (0 to 20 or 4 to 20 mA DC) + Sensor power supply (12 VDC +/–10%, 80 mA) (See note 2.)
L2A: Linear voltage output (0 to 5, 1 to 5, or 0 to 10 VDC) + Sensor power supply (12 VDC +/–10%, 80 mA) (See note 2.)
A: Sensor power supply (12 VDC +/–10%, 80 mA)
FLK1A: Communications (RS-232C) + Sensor power supply (12 VDC +/–10%, 80 mA) (See note 2.)
FLK3A: Communications (RS-485) + Sensor power supply (12 VDC +/–10%, 80 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.

Optional Board

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

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".