

VOLTAGE DETECTOR 3120

Field Measuring Instruments



Twin Light Audible Voltage Detector

3 years
Guaranteed for 3 years

**Green for
Battery Check**



**Red for Voltage
Detection**



3120:UL mark product



3246-60



3280-10



3129



ISO 9001
JMI-0216



ISO 14001
JQA-E-90091



www.hioki.com

HIOKI company overview, new products, environmental considerations and other information are available on our website.

Model 3120 Specifications

Measurement function:	Voltage Detection
Voltage range:	AC 70 to 600 V, 50/60 Hz (when touching insulated wiring equivalent to IV2mm ²)
Indication:	Red LED and continuous beeping sound
Battery check:	Green LED
Power supply:	“AAA“ manganese (R03) or alkaline (LR03) battery x 2
Rated voltage:	DC 3.0 V
Maximum rated power:	170 mW(max)
Rated power:	27 mW(Typ) (when switched to “ON”and in standby)
Continuous use:	Approx. 200 hours (when switched to “ON” and in standby using LR03 batteries)
Dimensions and mass:	149H x ø18.5 mm / 5.9” x ø 0.7” (excl. protrusions), 38 g / 1.3 oz (incl. batteries)
Operating environment:	Indoors, up to an altitude of 2000m
Operating temperature:	0 to 40°C, 80%rh max. (no condensation)
Storage environment:	-20 to 60 °C, 80%rh max. (no condensation)
Applicable standards:	Safety: EN61010 Pollution degree 2, CAT IV 600 V (Anticipated Transient Overvoltage: 8,000V) UL1436:1998 CSA C22.2 No.160-M1985 EMC: EN61326
Accessories:	“AAA“ manganese (R03) batteries x 2, Instruction manual x 1



Easy and Safe Instruments for Field Use!!!

Model 3246-60 Specifications		Model 3280-10 Specifications		Model 3129 Specifications	
Measurement		Measurement		Measurement	
Function	Range (Accuracy)	Function	Range (Accuracy)	Function	Phase detection (positive, negative), live wire check
DC voltage	420.0 m/4.200/42.00/420.0/600 V (±1.3%rdg.±4dgt.)	AC current	(0.06) - 42.00/420.0/1000A (50 / 60 Hz) (±1.5%rdg.±5dgt.)	Voltage Detection Method	Electrostatic induction method
AC voltage (50 to 500 Hz)	4.200/42.00/420.0/600V (±2.3%rdg.±8dgt.)	DC voltage	420.0m/4.200/42.00/420.0/600V (±1.3%rdg.±4dgt.)	Voltage Range	70 to 600V AC (50/60Hz) (sine wave, continuous input)
Resistance (open terminal voltage 3.4V max) ¹	420.0/4.200k/42.00k/420.0k/4.200M/42.00MΩ (±2.0%rdg.±4dgt. ²)	AC voltage (50 to 500 Hz)	4.200/42.00/420.0/600V (±2.3%rdg.±8dgt.)	Clamp Diameter	17mm max. of insulated wiring
Continuity (open terminal voltage 3.4V max)	420.0Ω (±2.0%rdg.±4dgt.) Buzzer sounds at approx. 50Ω ±30Ω or less	Resistance (open terminal voltage 3.4V max) ¹	420.0/4.200k/42.00k/420.0k/4.200M/42.00MΩ (±2.0%rdg.±4dgt. ²)	Display	
Diode test (open terminal voltage 3.4V max.)	Forward direction identification function ³ Indicated flashes and buzzer sounds to indicate forward direction	Continuity (open terminal voltage 3.4V max)	420.0Ω (±2.0%rdg.±6dgt.) Buzzer sounds at approx. 50Ω or less	Phase Detection	Positive: 4 LEDs lit in clockwise order and 3 short beeps Negative: 4 LEDs lit in counter-clockwise order and one continuous beep
Standards		Standards		Live Wire Check	R-S and S-T lamps light if voltage between wires are within range
Safety	EN61010 Pollution Degree 2 CATIII 600V	Safety	EN61010	Standards	
EMC	EN61326	EMC	EN61326	Safety	EN61010 Pollution Degree 2 CATIII 600V
*1. at 420.0Ω [4.2k 0.7V (typ.); 42k to 42MΩ 0.5V (typ.)]		*1. at 420.0Ω [4.2k 0.7V (typ.); 42k to 42MΩ 0.5V (typ.)]		EMC	EN61326
*2. at 420Ω to 420kΩ (4.2MΩ ±5.0%rdg.±4dgt.; 42MΩ ±10.0%rdg.±4dgt.)		*2. at 420Ω to 420kΩ (4.2MΩ ±5.0%rdg.±4dgt.; 42MΩ ±10.0%rdg.±4dgt.)			
*3. Works when diode has a forward voltage from 0.3V to 2.0V					

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

HIOKI

HIOKI E. E. CORPORATION

HEADQUARTERS:

81 Koizumi, Ueda, Nagano, 386-1192, Japan
TEL +81-268-28-0562 FAX +81-268-28-0568
http://www.hioki.com / E-mail: os-com@hioki.co.jp

HIOKI USA CORPORATION:

TEL +1-609-409-9109 FAX +1-609-409-9108
http://www.hiokiusa.com / E-mail: hioki@hiokiusa.com

HIOKI (Shanghai) SALES & TRADING CO., LTD.:

TEL +86-21-63910090 FAX +86-21-63910360
http://www.hioki.cn / E-mail: info@hioki.com.cn

HIOKI INDIA PRIVATE LIMITED:

TEL +91-124-6590210 FAX +91-124-6460113
E-mail: hioki@hioki.in

HIOKI SINGAPORE PTE. LTD.:

TEL +65-6634-7677 FAX +65-6634-7477
E-mail: info@hioki.com.sg

HIOKI KOREA CO., LTD.:

TEL +82-42-936-1281 FAX +82-42-936-1284
E-mail: info-kr@hioki.co.jp

DISTRIBUTED BY