
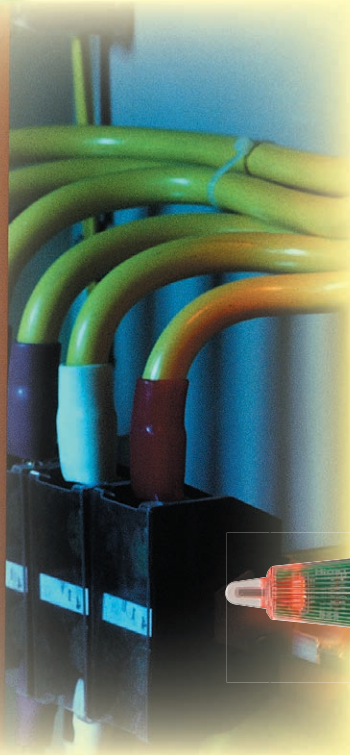


3120 VOLTAGE DETECTOR

Field Measuring Instruments 

Twin Light Audible Voltage Detector



**Green for
Battery Check**



**Red for Voltage
Detection**



CAT IV 600V
CE



3246



3280-10



3129



<http://www.hioki.co.jp/>

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 Source:	“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 • 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: EN61010-1:2001 Pollution degree 2, CAT IV 600 V (Anticipated Transient Overvoltage: 8,000V) EMC: EN61326:1997+A1:1998+A2:2001
Accessories:	“AAA” manganese (R03) batteries x 2, user manual x 1



Easy and Safe Instruments for Field Use!!!

Model 3246 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 (50 / 60 Hz)	(0.06) - 42.00/420.0/1000A (±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	EN61010-1:2001, EN61010-2-031:1994 Pollution Degree 2 CATIII 600V	Safety	EN61010-1:1993+A2:1995 EN61010-1:2001, CATIII 600V UL61010B-1:2003, UL61010B-2-32:2003	Standards	
EMC	EN61326:1997+A1:1998+A2:2001	EMC	EN61326:1997+A1:1998+A2:2001	Safety	EN61010-1:2001, EN61010-031:2002 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	EN61326:1997+A1:1998+A2:2001
*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					

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