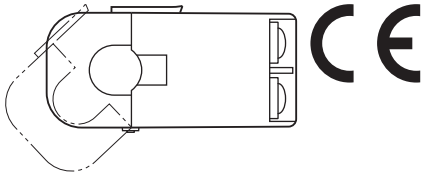


**SENSOR FOR CONNECTING TO UL APPROVAL****CLAMP-ON CURRENT SENSOR****Functions & Features**

- Nylon spring, one-touch clamp type that is easy to mount in equipment or machine. (Refer to the instruction manual for detail.)
- Over-voltage clamp element for safety in open circuit
- Wide frequency band
- Screw terminal connection

**MODEL: CLSE-U-[1]****ORDERING INFORMATION**

- Code number: CLSE-U-[1]

Specify a code from below for [1].

(e.g. CLSE-U-R5)

Confirm the correct sensor type described on the data sheet of the combined transducer/transmitter module.

**[1] POWER INPUT**

R5: 5 A

05: 50 A

10: 100 A

20: 200 A

40: 400 A

60: 600 A

**RELATED PRODUCTS**

- Multi power transducer (model: M50XWTU-U)
- Special cable (model: CLS-CN)  
(Used in combination with the CLSA-08C.)
- Special cable (model: CLSA-08C)

**GENERAL SPECIFICATIONS**

**Construction:** Clamp

**Connection:** M3 screw terminals (torque 0.3 N·m)

**Housing material:** Flame-resistant resin (black)

**Applicable wire size:** AWG22 or thicker (0.6 dia. or 0.3 mm<sup>2</sup> or thicker; Max. 30 meters, twisted)

**Detachable number of times:** Approx. 100 times

**INPUT SPECIFICATIONS**

**Maximum working voltage:**

**Ground voltage:** 240V AC

**Line voltage:** 240V AC

(Refer to the instruction manual for detail.)

**Operational range & overload capacity**

	OPERATIONAL RANGE	OVERLOAD CAPACITY *
CLSE-U-R5	5 A maximum	10 A continuous
CLSE-U-05	50 A maximum	60 A continuous
CLSE-U-10	100 A maximum	120 A continuous
CLSE-U-20	200 A maximum	240 A continuous
CLSE-U-40	400 A maximum	480 A continuous
CLSE-U-60	600 A maximum	720 A continuous

\*4000% of rating for 1 second

Caution 1: The output values may vary depending on the accuracy of engagement at the clamp connection.

Caution 2: The sensor's mechanical construction may cause it to generate resonance sound. However, it does not affect the performance of the sensor.

**INSTALLATION**

**Operating temperature:** -20 to +55°C (-4 to +131°F)

**Operating humidity:** 30 to 90 %RH (non-condensing)

**Weight:**

CLSE-U-R5: 45 g (1.6 oz)

CLSE-U-05: 40 g (1.4 oz)

CLSE-U-10: 75 g (2.6 oz)

CLSE-U-20: 180 g (6.3 oz)

CLSE-U-40: 300 g (10.5 oz)

CLSE-U-60: 330 g (11.6 oz)

**PERFORMANCE in percentage of span**

**Frequency:** 45 - 65 Hz (including the harmonic current up to 20 kHz)

For 65.1 Hz - 1.2 kHz, ratio error is  $\pm 2\%$ /ln.

**Maximum load:** 10  $\Omega$

**Insulation resistance:**  $\geq 100\text{ M}\Omega$  with 500 V DC

(sensor core to output terminal)

**Dielectric strength:** 2000 V AC @ 1 minute

(sensor core to output terminal)

MODEL	PRIMARY RATING	SECONDARY RATING	RATIO ERROR	PHASE DISPLACEMENT ERROR
CLSE-U-R5	5 A	1.65 mA	$\pm 1\%$ /ln, $\pm 2\%$ /0.2 ln	$\pm 1.5 \pm 1^\circ$
CLSE-U-05	50 A	20 mA	$\pm 1\%$ /ln, $\pm 2\%$ /0.2 ln	$\pm 1 \pm 1^\circ$
CLSE-U-10	100 A	20 mA	$\pm 1\%$ /ln, $\pm 2\%$ /0.2 ln	$\pm 0.5 \pm 1^\circ$
CLSE-U-20	200 A	20 mA	$\pm 1\%$ /ln, $\pm 2\%$ /0.2 ln	$\pm 1^\circ$
CLSE-U-40	400 A	20 mA	$\pm 1\%$ /ln, $\pm 2\%$ /0.2 ln	$\pm 1^\circ$
CLSE-U-60	600 A	20 mA	$\pm 1\%$ /ln, $\pm 2\%$ /0.2 ln	$\pm 1^\circ$

**STANDARDS & APPROVALS**

**EU conformity:**

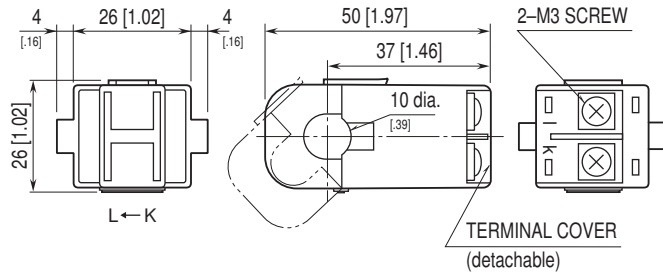
EMC Directive

EN 61326-1

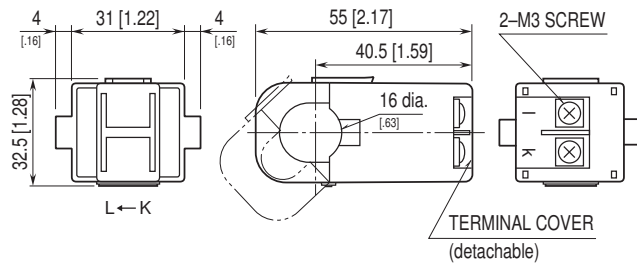
Low Voltage Directive  
EN 61010-1  
Measurement Category II (input)  
Pollution Degree 2  
RoHS Directive

## EXTERNAL DIMENSIONS unit: mm [inch]

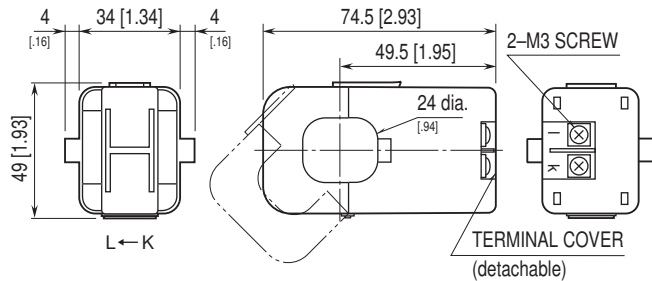
### ■ Sensor model No.: CLSE-U-R5, CLSE-U-05



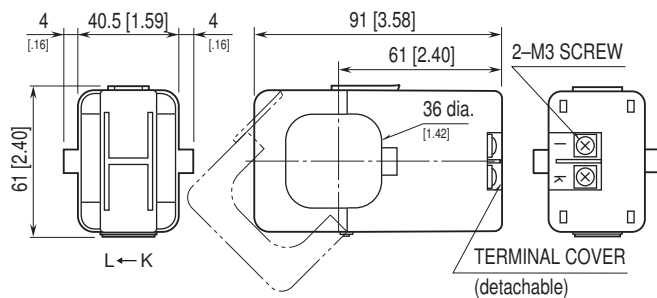
### ■ Sensor model No.: CLSE-U-10



### ■ Sensor model No.: CLSE-U-20



### ■ Sensor model No.: CLSE-U-40, CLSE-U-60



Specifications are subject to change without notice.