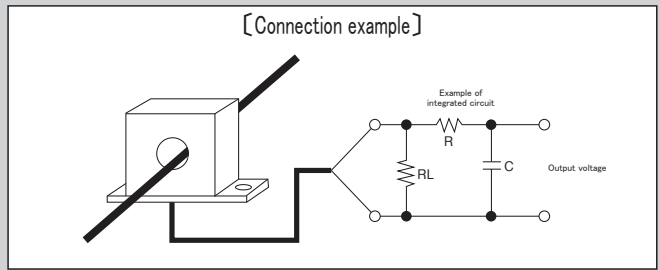
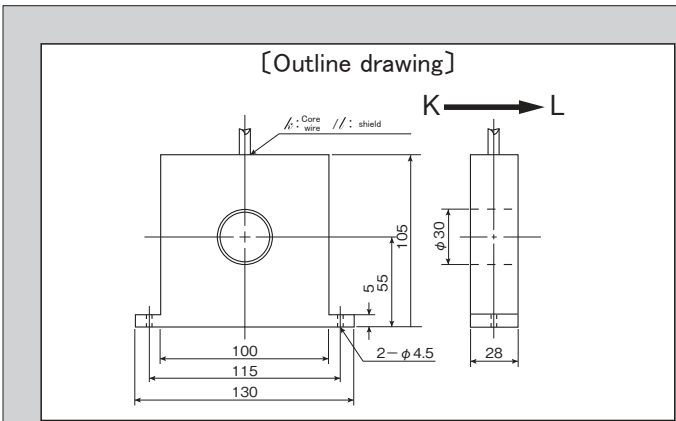


No saturated air core toroidal coil type AC current sensor for high current



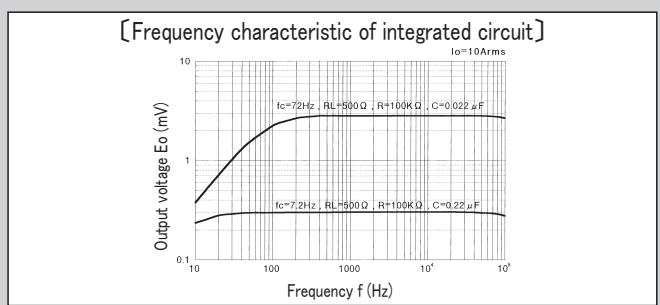
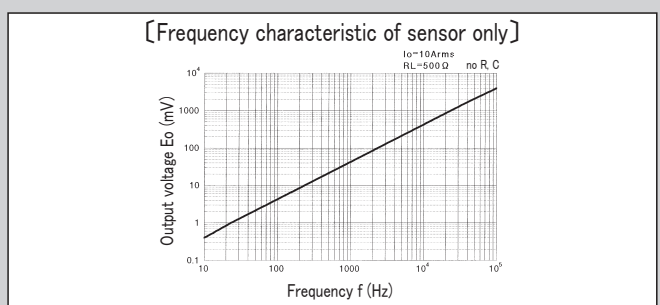
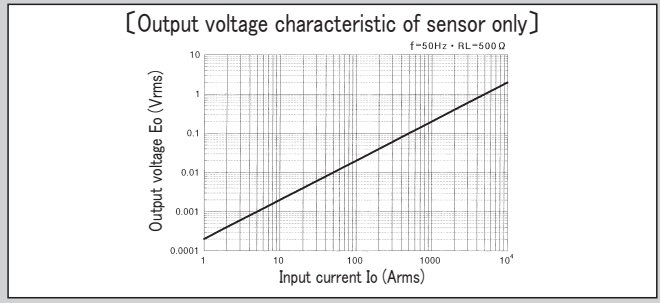
Model CTL-30-S220-4L

- [Features]
- Air core toroidal coil type current sensor. Suitable for current monitor of welding machine because of no saturation with high current
  - Principle to use in combination with proper integration circuit to return to original wave form, because output is rate of change (differential value) of detected current
  - Structure difficult to occur positional error, because of small diameter for aperture to be center toward toroidal core



[Specification] Ta=25°C

|   |   |
|---|---|
| Model                                       | CTL-30-S220-4L  |
| Primary current                             | 0 ~ 20kApeak (50 / 60Hz)  |
| Maximum primary current                     | ∞ (no saturation)   |
| Output characteristic of sensor only        | 0.2mV / A (RL=500Ω, 50Hz)<br>Sensor only; Refer output voltage and frequency characteristic of sensor only                                |
| Output characteristic of integrated circuit | 28 μV / A (fc=7.2Hz)<br>282 μV / A (fc=72Hz)<br>Combination with integrated circuit; Refer frequency characteristic of integrated circuit |
| Secondary windings (n)                      | 403 ± 2 turns   |
| Secondary windings resistance               | 13 Ω (reference)  |
| Withstand voltage                           | AC2000V(50/60Hz), 1min.(between aperture and output wire end in lump)   |
| Insulation resistance                       | DC500V, ≥100MΩ (between aperture and output wire end in a lump)   |
| Operating temperature                       | -20°C ~ +75°C   |
| Storage temperature                         | -30°C ~ +90°C   |
| Structure                                   | Phenol plastic case, potted by epoxy  |
| Output wire                                 | 3D-2V Coaxial wire (2.2m)   |
| Screw torque                                | 0.7N · m  |
| Mass  | approximately 550g  |



Remark

- (1) Wide application, because air core toroidal type current sensor is possible to corresponding to high current with small size
- (2) Corresponding to custom shape match to specification and shape. Please ask.