

## Average rectifier type current converter

### Current converter integrated split type current sensor and converter ( $\phi 8$ )

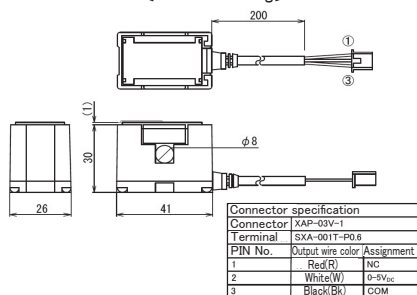


Model CTU-8-CLS-CV5 / CV50

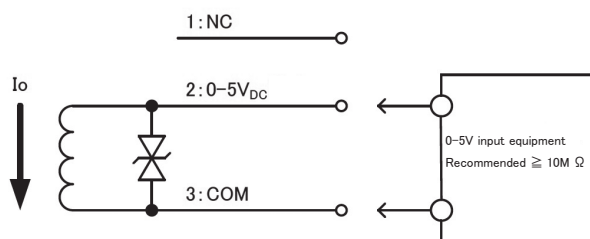
#### [Feature]

- Compact design to arrange the clamp structure inside of the frame
- Use cable with sheath for output wire
- Only for 50/60Hz of commercial power supply, average rectifier type current converter of AC current detection and DC voltage output
- Output 0-5VDC instrumentation signal from sensor without power supply
- Decrease the influence of magnetic field outside with double coil structure (compared with our product, CTT-10-CLS-CV5).
- Build in the clamp device for over current

#### [Outline drawing]



#### [Connection]



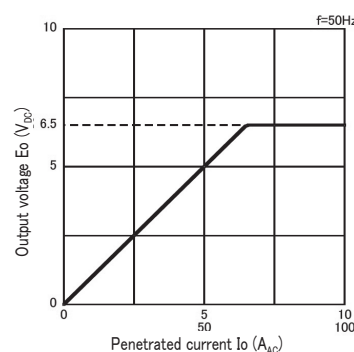
※ Recommend  $\leq 1m$  for cable length (1m extension cable as accessory)

#### [Specification] Ta=25°C

Model	CTU-8-CLS-CV5	CTU-8-CLS-CV50
Rating current (I <sub>N</sub> )	5Arms (50/60Hz)	50Arms (50/60Hz)
Output voltage	0 ~ 5VDC / 0 ~ rating current, build in 6.5VDC limiter (Recommended load resistor $\geq 10M\Omega$ )	
Maximum current	200% (continuous)	300% (10s)
Accuracy	$\pm 1\%$ FS (50/60Hz sine wave)	
Output impedance	6.8k $\Omega$	1.3k $\Omega$
Response time	300ms / 0→FS (typ)	150ms / 0→FS (typ)
Output ripple	Within 4% of output voltage (typ)	
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output connector terminal in a lump)	
Insulation resistance	DC500V, $\geq 500M\Omega$ (between aperture and output connector terminal in a lump)	
Operating temperature	-20°C ~ +50°C, $\leq 80\%$ RH, No condensation,	
Storage temperature	-30°C ~ +90°C, $\leq 85\%$ RH, No condensation	
Fitting repeatability	$\approx 100$ times	
Output connector	Socket contact : SXA-001T-P0.6 Plug housing : XAP-03V-1(JST)	
Mating connector	Pin contact : SXAM-001T-P0.6 Receptacle housing : XARR-03VF (JST) (Not included)	
Mass	approximately 60g	

- [Remark]
- (1) There is breakage of ferrite core inside with shocking force to the contact face.  
If feeling to fook the core during setting, don't push forcibly, and set carefully
  - (2) Prepared 1m extension cable for output as accessory (CABLE-6), or possible to use to connect any cable after cutting connector
  - (3) Setting direction free. In case to fix, fasten with plastic band
  - (4) Impossible to use in outdoor exposure

#### [Output voltage characteristic]



#### [Influence of magnetic field outside]

Measuring output voltage when the cable, which conducts 50A (50Hz), is touching to the case surface (0°, 90°, 180°, 270°) toward the center of aperture

