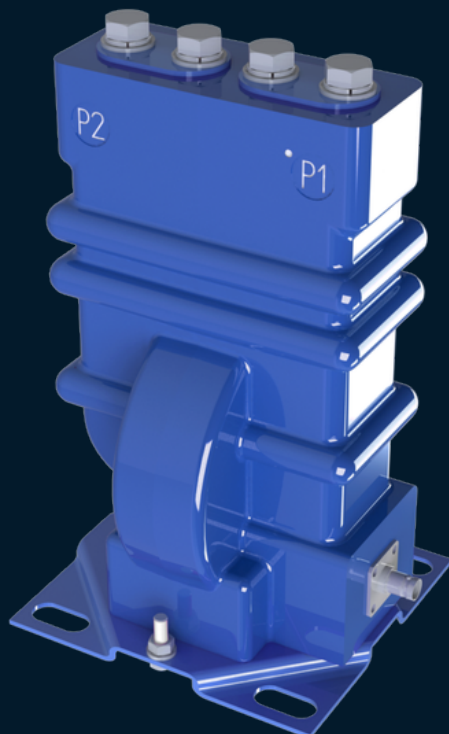


BDC - 10I

ELECTRONIC CURRENT TRANSFORMER

Standards

IEC 61869-10, IEC 60529, IEC 60255-21, IEC 60068-2, IEC 60060-1, IEC
61000-4-2, IEC 61000-4-3, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8



Electronic CT

Description

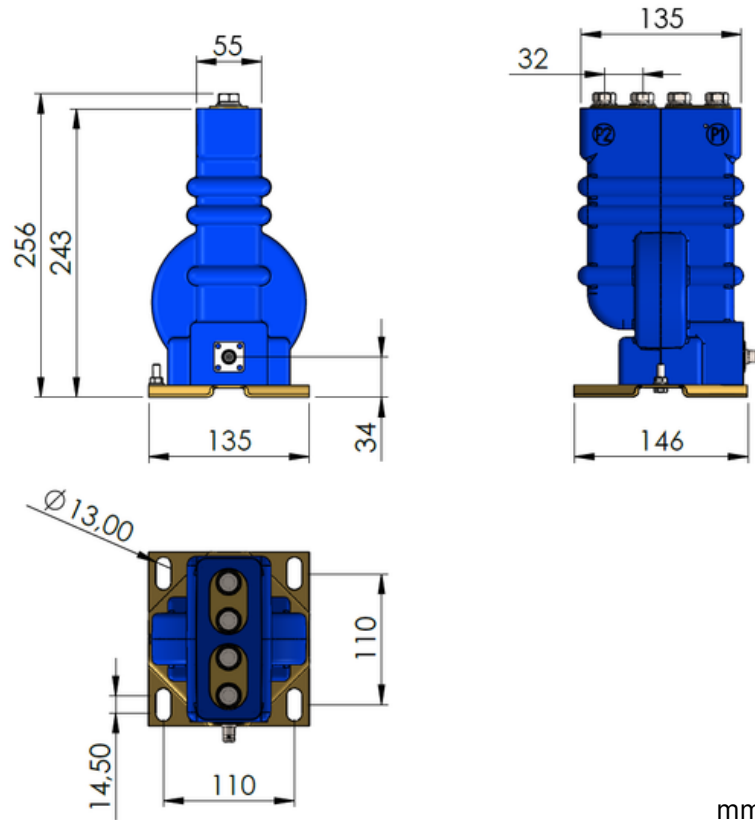
Electronic current transformers are current transducers with high linearity, ranging from 10 to 190% of the rated current. They do not present the traditional problems of saturation, resonance, core polarization, and failure due to high-frequency and voltage transients. There are no risks in leaving the secondary terminal open.

- They are ideally used in relays and electronic measurement circuits, as they consume low power from the secondary terminal.
- They are lighter and more compact, ideal for panels and cubicles
- They are not recommended for applications requiring high energy consumption, such as electromechanical relays or as a power source.

The electronic CT manufacturing matrix is entirely domestic, developed by HVEX.

- Mounting in any position
- Temperature class B (130°C)
- Indoor use
- Screws, bases, and washers in bicromated steel

The dimensions of the electronic CT depend on its withstand voltage, among the options are 17.5 kV; 24 kV; 36 kV. Different values can be studied upon request by contacting the companies. An example dimensional drawing is provided:



Technical Specifications

Aspect	Unit	Option 1	Option 2	Option 3
Industrial freq. voltage	kV	17,5	24	36
Maximum voltage	kV	34	50	70
Isolation level	kV	95	125	170
Creepage distance	mm	180	238	321
Frequency	Hz	60	60	60
Accuracy class		0,2%	0,3%	3%
Rated current	A	25 a 5 kA		
Maximum current	A	25 kA		
Secondary currents	1 or 5 A with potential amplifier (optional) or 333 mV			
Power	0.1 VA, for other powers acquire with power amplifier.			
Applications	Panels, exclusive relays with voltage protection function, or differential.			
ANSI protection functions	27			
	59			
	87			

It has intrinsic protection in the secondary, set to 180 V, preventing overvoltage in the relay.

It has internal protection against open CT.

It is not suitable for electromechanical relays.

Consult the universal transducer or HVEX amplifiers for other applications.

We provide solutions for improving the efficiency and quality of the energy generation, transmission, and distribution sectors. With a highly specialized team experienced in research, development, and innovation, HVEX has developed tailored solutions for the Brazilian market. A wide range of products with solutions focused on signal measurement and protection transduction.



☎ 35 3622-2699

✉ contato@hvex.com.br

🌐 www.hvex.com.br

📍 R. Ismael Pinto de Noronha, 86,
Nossa Sra. de Fatima, Itajubá-MG