

CURRENT SENSOR

ExxxT

Indoor Current Sensor for Retrofit Cable Installation
Flexible Split Core Current Sensor Standard Shape T
IEC 61869-1, IEC 61869-10

Type:	Current sensor
Primary type:	300A (standard)
Shape:	Split Core Current Sensor Standard Shape T
Burden:	>10kΩ [maybe >30kΩ on low primaries]
Accuracy:	0.5 standard (0.2s max.) and/or protection class (5P20 series)
Frequency:	50/60Hz (standard)
Primary value:	300A (many series variants)
Secondary value:	225mV standard (or 22.5mV / 150mV / 333mV IEC standards) // 1A
Extension:	120% standard (400% max.)
Isolation-level:	- / 0.72 / 3 kV
Cable length:	2m standard (available lengths: 3.7m / 5m / 8m / 10m)
Cable type:	2 pole, 0.34, twisted pair, grey, shielded + braid, assembled 80°C
Connection type:	Open-end (standard) / RJ45 (variable pinning) / BNC
Measuring burden:	>10kΩ [maybe >30kΩ on low primaries]
Storage temperature:	-40°C – 75°C
Service temperature:	-25°C – +60°C (constant) / -40°C – 75°C (short-term)
Temperature error:	-0.1%@60°C/ +0,15%@-25°C/ -0,2%@75°C/ +0.2%@-40°C max.
TC (equivalent):	Maximal ±30PPM / Typical ±20PPM / Minimal ±<20PPM PTC
Power rating/ consumption:	<1VA

Additional Information:

Data Fields in Green are customer-defined, and therefore vary with specific product

Every specific product has a specific code

All this specific data fields are also shown in the official offers and orders

All data is locked to a specific no/ code, so if a value changes this code will change



Describes the type of measuring product
Primary current value for fast identification/ primary product code value
Specified shape / dimensions
Rated burden of product (standard >10kΩ) / 1VA standard for classic CTs
Accuracy class(es) according to specified standard, depends on ratio
Applicable base net frequencies, depends on region
Primary value @ line = primary (ratio) / standard ratios see tabloid next page
Secondary value @ IED = secondary (ratio) / standard ratios see tabloid next page
Upper measuring limit within accuracy class / limited by I _{cont} of given ratio
Isolation level according to specified standard – for use on screened MV cables
Length of specific cable
Generic description of implemented cable
Interconnection between the sensor (transformer) and IED = input connection
Measuring burden @ testing bench, equals IED(s) input impedance/ used burden (CTs)
Maximal storage temperature range, avoid extremes for longer than 72h
Permitted constant and short-term ambience temperatures in operation
Maximal deviations in percent at temperature extremes
Corresponding temperature coefficient in parts per million (curve = quasi-linear)
Power consumption @ nominal primary value / equals burden for classic CTs