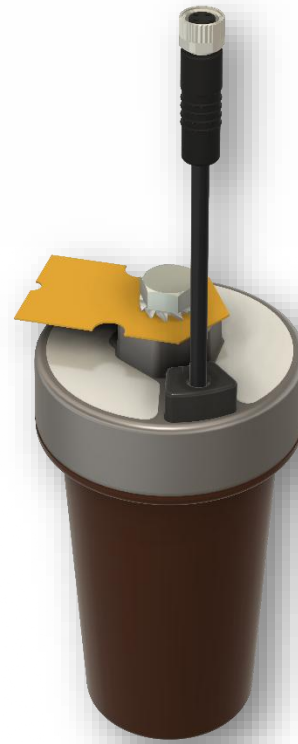


## VOLTAGE SENSOR

### V240C universal data sheet

Indoor Voltage Sensor Type C Shape according to IEC 50181  
IEC 61869-1, IEC 61869-11



Type:	Voltage sensor
<b>Primary type:</b>	24 / 50 / 125 kV, 17.5 / 38 / 75 kV or 12 / 28 / 75 kV
Shape:	Type C cone acc. EN50181
<b>Burden:</b>	100kΩ - 2GΩ    0pF - 1nF
<b>Accuracy:</b>	0.2 / 0.5 / 1 with or without protection classes
<b>Wide Band Accuracy:</b>	WB0 - WB3 as additional classes, with accuracies of 0.2-3
<b>Frequency:</b>	50Hz or 60Hz or 50/60Hz
<b>Primary value:</b>	6kV/√3 - 22kV/√3
<b>Secondary value:</b>	1V - 10V
<b>Voltage Factor/ Extension:</b>	BIL and primary depended, usually 1.9 x Un/8h
<b>Isolation-level:</b>	24 / 50 / 125 kV, 17.5 / 38 / 75 kV or 12 / 28 / 75 kV
<b>Cable length:</b>	2m, 3.7m, 5m, 8m
<b>Cable type:</b>	2 pole, black, shielded, konf. 80°C (standard)
<b>Connection type:</b>	Open End or BNC or RJ45 (please name pinning)
<b>Measuring burden:</b>	100kΩ - 2GΩ    0pF - 1nF
Storage temperature:	-40°C - 85°C
Service temperature:	-25°C - +60°C (constant) / -40°C - 85°C (short-term)
Temperature error:	-1%@75°C/ +1%@-25°C/ -1,5%@85°C/ +1.5%@-40°C max.
TC (equivalent):	Maximal ±200PPM / Typical ±120PPM / Minimal ±50PPM 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 product code value for fast identification: V240C/ V175C / V120C  
Specified shape / dimensions - see universal technical drawing for details  
Rated burden of product - IEC standards: 200kΩ||350pF or 2MΩ||50pF  
Accuracy class(es) according to specified standard (0.5 & 3P standard)  
Highly depends on burden of IED, cable (type and length), shape  
Applicable frequencies = grid/ base frequency, for other frequencies please ask  
Primary value @ line = primary (ratio), usually 20kV/√3, depends on region  
Secondary value @ IED = secondary (ratio), usually IEC Norm 3.25V/√3  
Upper measuring limit within accuracy class/ long-term measuring limit  
Isolation level according to specified IEC standard, identical to primary type (for LPVTs)  
Standard lengths of specific cable (other lengths available, but longer ordering time)  
Generic cable description, also co-axial, outdoor, low-cap, high-temp etc. available  
IED input interconnection, sensor side is always M8-3P-male  
Measuring burden @ testing bench, equals IED(s) input impedance  
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