

## VOLTAGE SENSOR

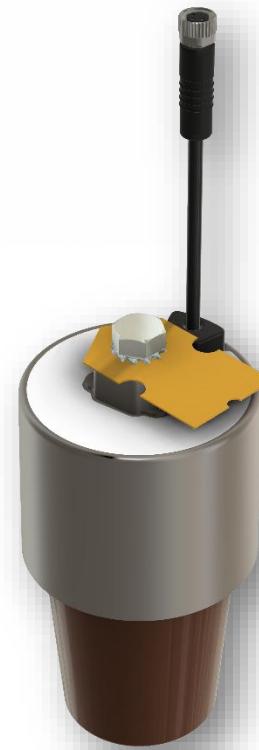
### V240K universal data sheet

Indoor Voltage Sensor acc. to IEC 61869-1, IEC 61869-11 for T-Connector mounting

Shape "short cone" as devised by:

Tyco (RSTI-58), nkt (CB24), Nexans (K 430TB), Südkabel (SET/SAT24)

Type:	Voltage sensor
<b>Primary type:</b>	24 / 50 / 125 kV, 17.5 / 38 / 75 kV or 12 / 28 / 75 kV
Shape:	Tyco, nkt, Südkabel, Nexans, short cone
<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



Describes the type of measuring product

Primary product code value for fast identification: V240K/ V175K / V120K

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

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