

2. Products

2.1 VOLTAGE SENSORS

The voltage sensor is mounted on the cable outlet at the back of the T-connector. Therefore, the insulating plug is replaced by the voltage sensor. The accuracy of the sensor, i.e. the absolute value error and phase error, is constant over the lifetime and have not to be recalibrated or readjusted. The calibration to the desired nominal and secondary voltage is performed at Zelisko. Cable length in delivery condition may not be changed.

The voltage sensor is suitable for both, original equipment and retrofitting, without any reconstructions of network stations necessary.

2.1.1 SMVS-UW1001 & SMVS-UW1001-30 (for symmetric plug)



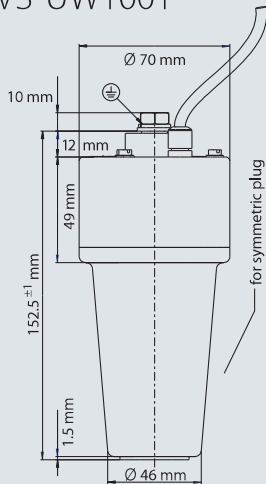
The cone of the voltage sensor is designed in accordance to EN50181, type C. Due to the standardized design it is possible to equip different T-connectors with this sensor.

2.1.2 SMVS-UW1002 (for asymmetric plug)

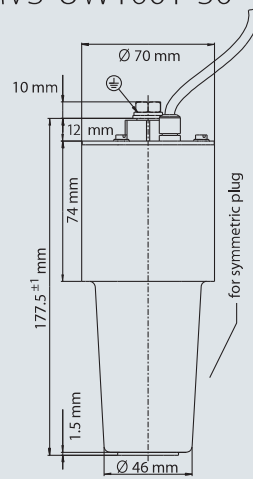


The voltage sensor with shortened cone fits to T-cable manufacturer like nkt or Raychem.

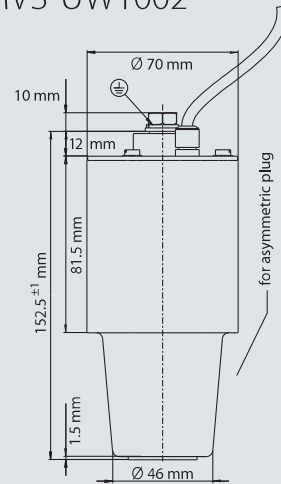
SMVS-UW1001



SMVS-UW1001-30



SMVS-UW1002



Datasheet

SMVS - UW1001, SMVS-UW1001-30 & SMVS - UW1002

Insulation level	max. 36 / 70 / 170 kV
Rated frequency	50 Hz / 60 Hz
Rated voltages	max. $30/\sqrt{3}$ kV
Voltage factor	1,2 U_N and 1,9 U_N 8h
Accuracy class	0,5 / 1 / 3
Rated secondary voltage	$3,25/\sqrt{3}$ V (or on request)
Standard	IEC 60044-7
External conditions	Operation: -25°C to +55°C or -40°C to +40°C (or on request)
	Storage: -40°C to +80°C (or on request)
Rated burden	200 k Ω \pm 1% precision, 350 pF
Connection cable & interface	See configuration table page 11
Overvoltage protection	Internal surge protector
Cable connector type	SMVS - UW1001: Nexans: (K) 440TB; Cellpack: CTS-S; Südkabel: SEHDT 13 & SEHDT23; Alternatives on request
	SMVS - UW1001-30: Nexans: (K) (M) 400TB & 440TB, Alternatives on request
	SMVS - UW1002: nkt: CB-24, CC-24; Raychem: RSTI-58xx, RSTI-CC-58xx Alternatives on request