

Specifications for S&C Potential Indication Feature

This information bulletin provides specifications for the S&C Vista SD Underground Distribution Switchgear potential indication feature (Catalog Number Suffix “-L2”). The potential indication feature consists of a capacitive tap molded inside the bushing or bushing well (see Figure 1).

The capacitive tap transforms the system voltage down at a 2400:1 ratio to a level measurable with a high-impedance true RMS-reading voltmeter set to read ac volts. For instructions on using the potential indication feature, please refer to Instruction Sheet 695-510.

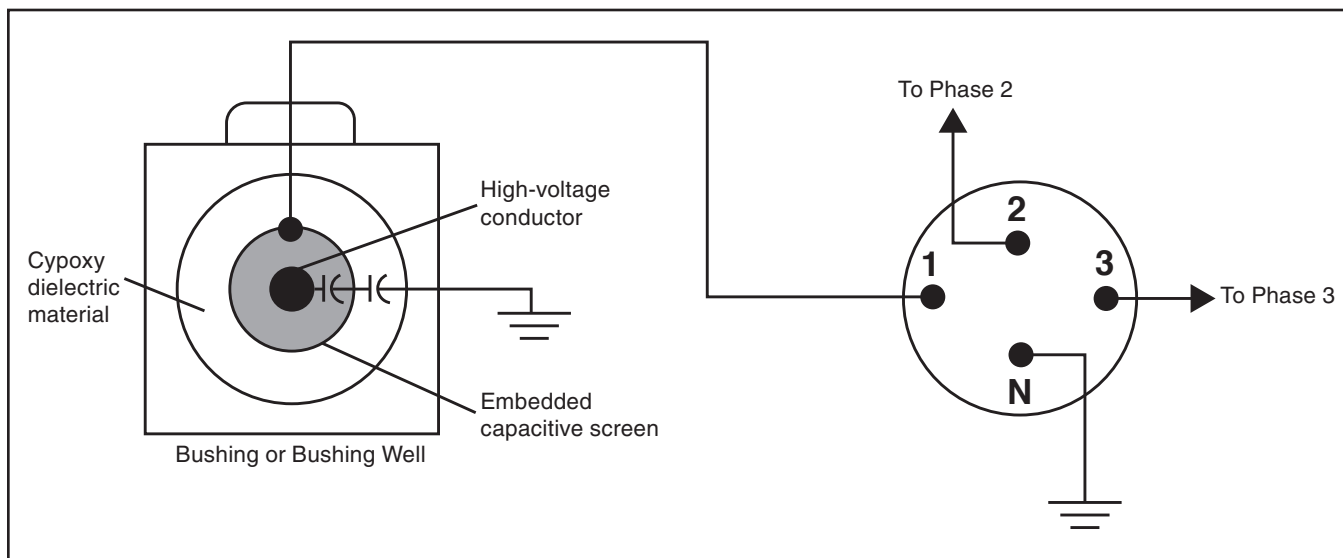


Figure 1. Schematic of Vista SD potential indication feature (Phase 1 shown).

Potential Indication Output

System Voltage	Checking for Voltage, Single-Way ①		Low-Voltage Phasing ②		
Nominal (kV)	Phase-Neutral Voltage (V)	Phase-Phase Voltage (V)	Phase-Phase Voltage, Corresponding Phases (2° Shift) (V)	Phase-Phase Voltage, Corresponding Phases (30° Shift) (V)	Phase-Phase Voltage, Different Phase (V)
4	0.962	1.667	0.135	0.599	1.843
10	2.406	4.167	0.339	1.499	4.608
12.47	3.000	5.196	0.423	1.869	5.747
13.2	3.175	5.500	0.448	1.979	6.083
17.5	4.210	7.292	0.584	2.491	8.065
20	4.811	8.333	0.678	2.997	9.217
23	5.533	9.583	0.779	3.446	10.599
25	6.014	10.417	0.847	3.746	11.521
27.6	6.640	11.500	0.935	4.136	12.719
29	6.976	12.083	0.982	4.345	13.364

① Accuracy of the potential indication feature for a single potential indicator is $\pm 8\%$.

② Accuracy of the potential indication feature when performing low-voltage phasing tests is $\pm 5.3\%$.



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