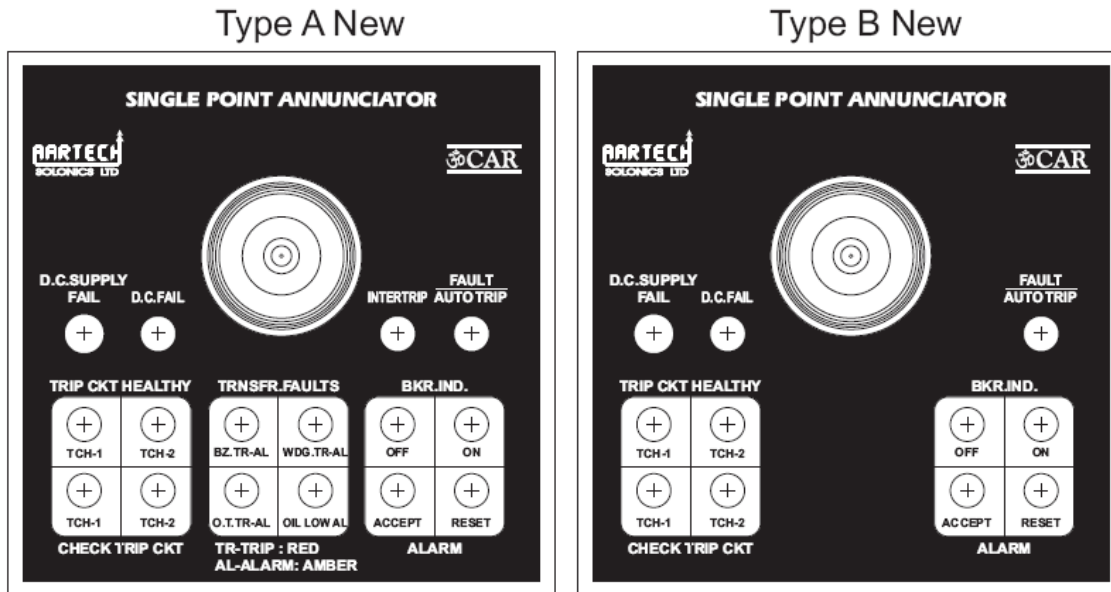


**WRITE UP ON  
AARTECH MAKE  
SINGLE POINT ANNUNCIATOR (SPA)  
FOR  
11&33KV CONTROL AND RELAY PANELS**



**SPA FRONT PLATE VIEW**

**Introduction:** Single point annunciator (SPA) is used in 11KV & 33KV transformer and feeder protection control and relay panels to provide various indications and alarm for various type of faults as well as the healthiness of the circuit and the breaker status during operation. It is provided with no. of LEDs and pushbuttons to execute its operation. The various features of SPA has been described below.

**Rating:** 30V DC, 230V AC

**Dimensions:** 144 (L)x 144 (W)x70 (D). All dimensions are in mm.

**Features of SPA:**

1. Trip Circuit Healthy-1(TCH-1) LED (white)
2. Trip Circuit Healthy-2(TCH-2) LED (white)

3. Breaker OFF LED (Green)
4. Breaker ON LED (Red)
5. Fault/Auto Trip LED (Red)
6. D.C. Fail LED (Red)
7. Buchholz Trip LED (Red) for 33KV transformer
8. Buchholz Alarm LED (Amber) for 33KV transformer
9. Winding Temperature Trip LED (Red) for 33KV transformer
10. Winding Temperature Alarm LED (Amber) for 33KV transformer
11. Oil Temperature High Trip LED (Red) for 33KV transformer
12. Oil Temperature High Alarm LED (Amber) for 33KV transformer
13. Oil Low Level Alarm LED (Amber) for 33KV transformer
14. Inter-trip LED (Red) for 11 & 33KV transformer
15. PB-1 Breaker Trip Coil-1 Push Button for TCH-1
16. PB-2 Breaker Trip Coil-2 Push Button for TCH-2
17. PB-3 Alarm Accept Push Button
18. PB-4 Alarm Reset Push Button
19. PB-5 DC Fail Test Push Button
20. The windows for Transformer faults shall have flashing indication.

**NOTES:**

1. **Type A:** 33KV Transformer type SPA front plate of dimension (139X139mm). Overall dimension of SPA is 144X144mm. In 11KV. Transformer type SPA, only the 4 no. holes for transformer faults described under heading "TRANSFR Faults" shall not be required rest all shall be same as 33KV transformer type SPA.
2. **Type B:** 11 & 33KV Feeder type SPA front plate of dimension (139X139mm). Overall dimension of SPA is 144X144mm.