

MODEL

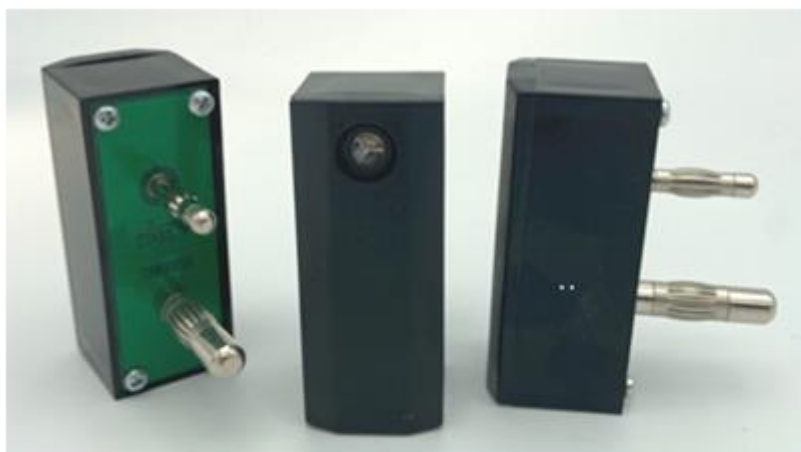
A71 VDS MR

APPLICATION

- * Voltage Detecting System for MV switchgears panels
- * The voltage device **A71VDSMR** is a **plug voltage detector** for MT (Medium Voltage) 12/24/36 kV MV distribution panels, compliant to standard IEC61243-5 Medium Resistance. It should be used in combination with **A71VDSF interface plate**, installed on the electric panel

FEATURES

- * Certification: compliant to IEC61243-5 Medium Impedence
- * Threshold on Voltage 20,8C
- * Threshold Current 2,5UA



	DESCRIPTION	UNIT	VALUE	REV
1.	3-Phase Voltage range - U_N	kVac	1 – 52KV	
2.	Installation	--	indoor	
3.	Line Frequency	Hz	47 ~ 53	
4.	Indicator	--	LED	
5.	Threshold on-current IVDS – I_t	uA	1,67 – 2,5uA	A
6.	Threshold on Voltage - IVDS – U_T (range)	VAC	20,8V (20-30VAC)	B
7.	Impedence IVDS - X_C range	OHM	12 – 14,4 MEG	
8.	Light Color IVDS – (color_amber)	nm	590nm	
9.	View angle IVDS – IEC61243-5	Deg/m	+/-15° 0,75m	
10.	Humidity - RH	%	93%	
11.	Operating Temperature 60068-2-3	°C	- 30° +70°	
12.	Storage Temperature	°C	- 30° +70°	
13.	IP protection code - EN 60529: ed.2 1997	--	IP20	
14.	Case	--	Polycarbonate black	
15.	Dimensions LxPxH	mm	55 x 23 x 64	
16.	PE- Plug di Terra (PE)	mm	Φ 6	
17.	PH- Phase (F)	mm	Φ 4	
18.	Vibrations – sinusoidal 3-axes IEC60068-2-6	Hz/ mm/ (m/s ²)	10 / 0,3 / 0,6 58/ 0,3 / 19,6 150/ 0,041 / 19,6	B
19.	Impact – IEC60068-2-63	G/msec	1 JOULE	
20.	Standard of Certification	--	IEC61243-5 MEDIUM RESISTANCE	

The light of Led indicator starts blinking to continuous depending on input line voltage

OUTLINE	BLOCK DIAGRAM
	CN: decoupling UVLO: under-voltage-lock out VCO: VOLTAGE CONTROL OSCILLATOR

Use external support to fix indicators on panel (code A71VDSF)

CODE	DESCRIPTION	DIMENSION L/A/S [mm]	WEIGHT [Kg]
A71VDSMR	PLUG-IN VOLTAGE DETECTOR IEC61243-5 TYPE MR	22.5 x 55 x 22.5	0,023

MODEL

A71 VDS F

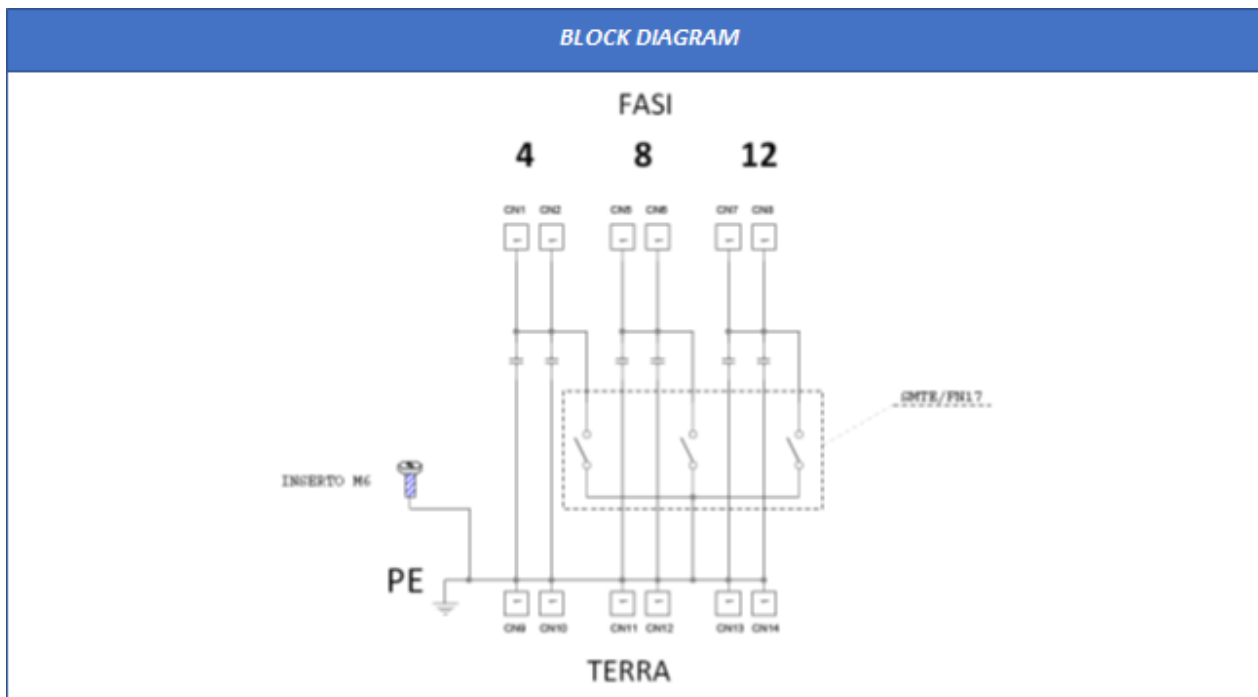
APPLICATION

- * **A71VDSF is the fixed support of VDS Voltage Detecting System**, to be installed on the cabinet panel for the **three separable parts A71VDSMR**, compliant to standard IEC61243-5
- * The plugging-in of the removable indicator opens the ground contact of the correspondent phase socket and allows the current to flow inside the light indicator. The fixing of the support-plate is on the surface of front panel. An aluminum label shows the position of Ground (TERRA) and phase (4 8 12)
The Power supply for the device is directly from the coupling bushing. No auxiliary power-supply needed
Inside the base, it is possible to mount different compensative capacitor, up to bushing used for proper operation.

SPECIFICATIONS

- * See A71VDSMR specifications and values





CODE	DESCRIPTION	DIMENSION L/A/S [mm]	WEIGHT [Kg]
A71VDSMR	PLUG-IN VOLTAGE DETECTOR IEC61243-5 TYPE MR SEPARABLE PART	22,5/55/22,5	0,023
A71VDSF	VOLTAGE DETECTOR IEC61243-5 TYPE F	104/40/86	0,4
A71VDSF 471	VOLTAGE DETECTOR IEC61243-5 TYPE F - CAP 470 PF	104/40/86	0,4
A71VDSF 561	VOLTAGE DETECTOR IEC61243-5 TYPE F - CAP 560 PF	104/40/86	0,4
A71VDSF 801	VOLTAGE DETECTOR IEC61243-5 TYPE F - CAP 470+330 PF	104/40/86	0,4
A71VDSF 1221	VOLTAGE DETECTOR IEC61243-5 TYPE F - CAP 1220 PF	104/40/86	0,4
A71VDSF 2201	VOLTAGE DETECTOR IEC61243-5 TYPE F - CAP 2200 PF	104/40/86	0,4