



Model

VDS MR

TYPE CONFORMITY CERTIFICATE N°22/1040P_IND

Description

The voltage detection system is a **separable VDSMR system, compliant with the product standard IEC 61243-5** for the visual indication of the presence of voltage of medium voltage electrical distribution equipment.

Our VDIS01 is type conformity certified by the accredited EN 17065 body SGS: CERTIFICATE N° 24/1317P_IND.

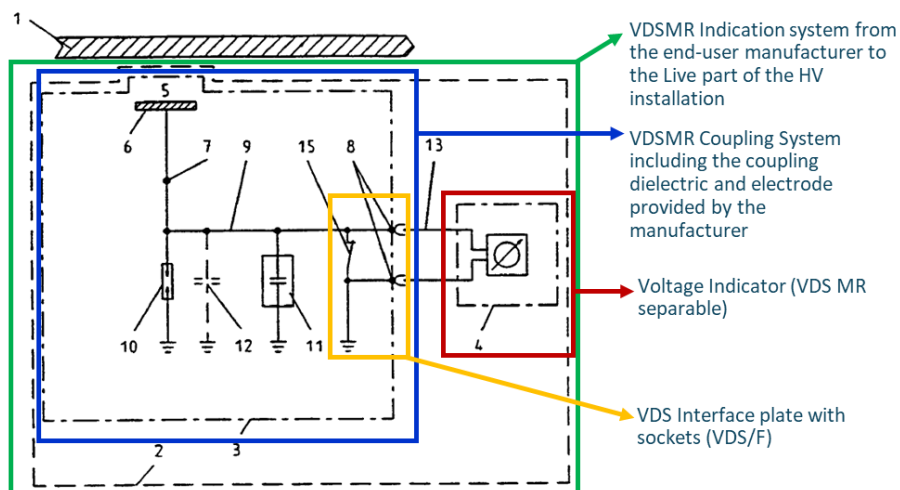
VDSMR is the portable part of the separated VDS system which includes the coupling dielectric and electrode both provided and integrated by the end-user manufacturer

The voltage device VDSMR 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 VDS/F Short-circuit device (Interface plate) usually installed on the electric panel.

EN 61243-5 Typical structure of a separable VDS system

The product standard EN 61243-5 defines the technical requirements of the separable VDS system with reference to a typical configuration in which components are integrated into a high voltage end application

VDS separable Fig. 1 standard EN 61243-5 (VDS MR separable)

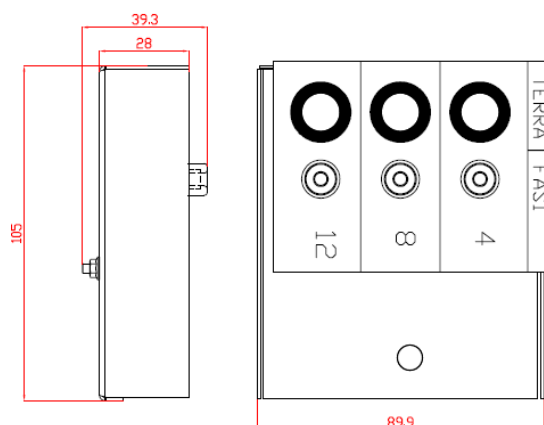


1. Live part of HV installation; 2. Indication system; 3. Coupling System; 4. Voltage Indicator; 5. Coupling dielectric; 6. Coupling electrode; 7. Connection of coupling electrode; 8. Interface with sockets; 9. Connecting Lead; 10. Voltage Limiting device; 11. Measuring circuit (optional); 12. Stray capacitance; 13. Plug and/or terminal lead; 14. Test point; 15. Short-circuit device (optional)

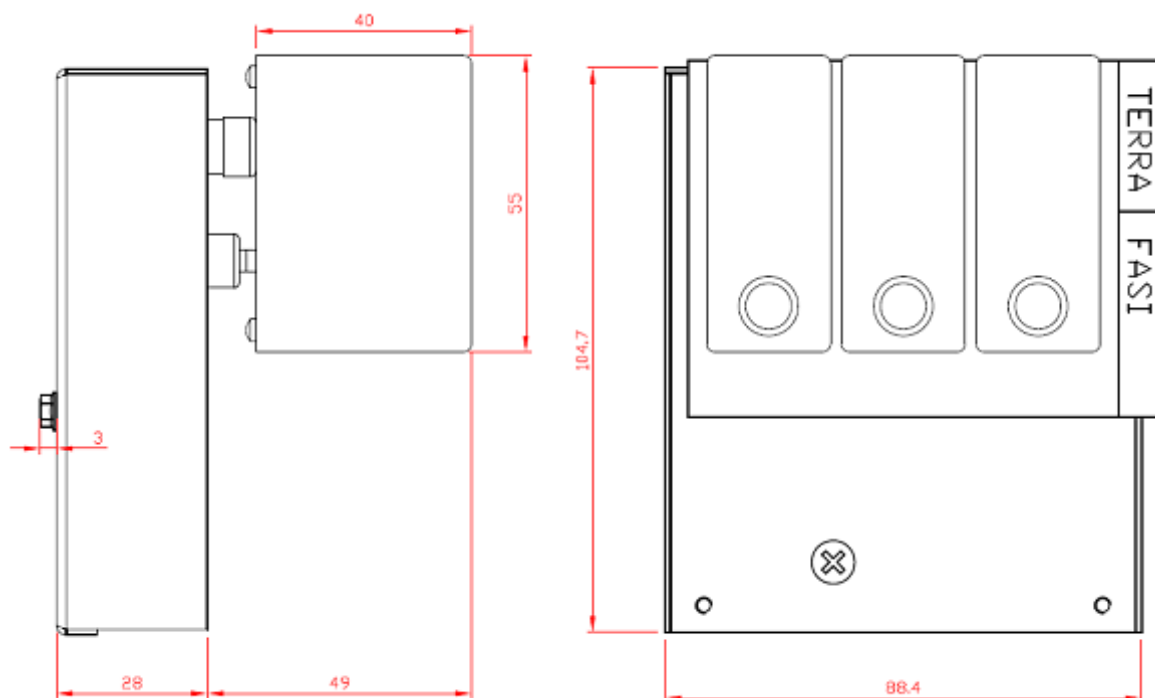
	Technical features	Unit	Value	Rev
1.	Phase Voltage range - U_N	kVAC	1 - 52	
2.	Line Frequency	Hz	47 ~ 53	
3.	Installation	--	indoor	
4.	Indicator	--	LED – amber color	
5.	Angle of view (vs center line)	degree	30°	
6.	Threshold on-current IVDS – I_t	μA	1,39 – 2,5	
7.	Threshold on Voltage - IVDS – U_t (range)	VAC	20 - 30	
8.	Impedence IVDS - X_c range	M Ω	12 – 14,4	
11.	Testing point plug	--	1x plug diam 4 mm x 18 mm (Phase) 1x plug diam 6 mm x 24 mm (PE) (Ref. IEC 61243-5 Fig. C2)	
14.	Humidity without condensation – RH	%	95%	
15.	Operating Temperature (ambient air)	°C	- 30 ~ +60	
16.	Storage Temperature	°C	- 30 ~ +75	
19.	IP protection code - EN 60529	--	IP20	
20.	Case	--	Metal	
21.	Dimensions LxDxP (only case without plugs)	mm	55 x 23 x 40	
22.	Weight	g	121	
23.	Vibrations – sinusoidal 3-axes - IEC60068-2-6	Hz/peak value/g	10-58 / 0,15 / - 58-150 / 19,6 m-s ² / 2	
24.	Drop resistance (test requirement 5.13.2, 5.13.3 IEC 61243-5)	m	1	
25.	Reference Standard	--	IEC61243-5 CEI EN 61243-5:2002-03:2022 (1*)	

(1*) The product is compliant to the standard for technical requirements applicable to his function (indicator) and interfaces (ref. Tab A2 – IEC 61243-5 type test requirements of separable Voltage Indicator).

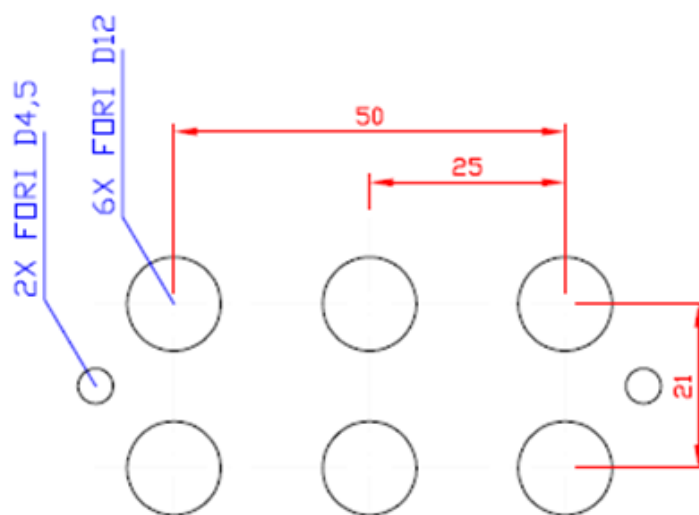
- VDSMR indicator passed type tests required for product certification, as per IEC 61243-5 standard.
- Integration and application of VDSMR in final Hi equipment is the responsibility of end user manufacturer. TOR is available for support and assistance.



Assembly Drawing and Panel Cutting Drawing



Assembly Outline (VDSMR + VDS/F)



Panel cutting (VDS/F Interface Plate)

Extract from Type Conformity Certificate N° 22/1040P_IND



TYPE CONFORMITY CERTIFICATE
N°22/1040P_IND

SGS Italia job n° 22.21598

MANUFACTURING SITE:
COSTRUZIONI ELETTROMECCANICHE P. TORRESAN S.r.l.
Via Giuseppe di Vittorio 307/5,
20099 Sesto San Giovanni (MI) – Italy

CERTIFIED CHARACTERISTICS:

Technical requirements according to reference documentation – position:
"STANDARD/TECHNICAL SPECIFICATION"

22.21598

TYPE/MODEL:

Torresan code	Description	Document list
A71VDSMR	PLUG-IN VOLTAGE INDICATOR IEC61243-5 TYPE MR	VDSMR-08-01-SGS rev. F 30/08/2022

TRADE MARK:

STANDARD/TECHNICAL SPECIFICATION:
Standard CEI EN 61243-5 ed. 1 03/2022
SGS Italia Certification scheme - SCP 004/1 Rev.02

TEST REPORT:
RPLP dated 07/09/2022 rif.: 22.21598_VDSMR

AUDIT REPORT:
RVLP dated 07/09/2022 rif.: 22.21598_VDSMR

Above mentioned reports refer to the last edition of the current certificate

SGS Italia S.p.A.
On behalf of Business Manager
Rosalba Fanale



Issuance date: October 12th, 2022

2/2



