

VOLTAGE DETECTING SYSTEMS

24/06/02



This VDS is based on the sharing of voltage between capacitor C1 (high voltage) and capacitor C2 (low voltage) ; the signal at C2 terminals is transformed in an optical signal, which separately points out voltage and phase of the line involved.

Thanks to this new system the signals of voltage get to the operator through a galvanic (optical) insulation, which never transfers voltage, even in case of failure of capacitor C1.

The IEC Standard 61243-5 1997-06 is applicable to our Voltage indicator. At page 11 point 1.2, the standard concerns VDS "based on fundamentally different principles (for examples optical systems, ...) ; they "should meet the requirements of this standard where applicable."

The very small size allows to reduce space in your panel and in the meanwhile maximizes the ratio quality/cost.

HVD3/MV/ _ _ _ _

- Optical Integrated VDS - Voltage detecting system in accordance with IEC 61243-5 where applicable
- The device supplies continuously :
- A synchronous optical signal which can be used either for local voltage indication or as phase signal to be analysed by phase comparator (PD)
- LED life time guaranteed - min. 30 years
- Surge arresters does not applied because only optical signals are available on the front of panel

Technical features

High voltage :	3 - 170 KV
Primary Capacitance* :	3 - 300 pF
Power supply :	no auxiliary power requested
Power consumption :	< 1mW
Led :	3000mcd/20mA
Dielectric strength :	275KV
Surge Strength :	650KV
EMC/IEC tested.....	ENG96/026630
IP degree protection :	IP64

*Versions with customized features can be provided.

Material

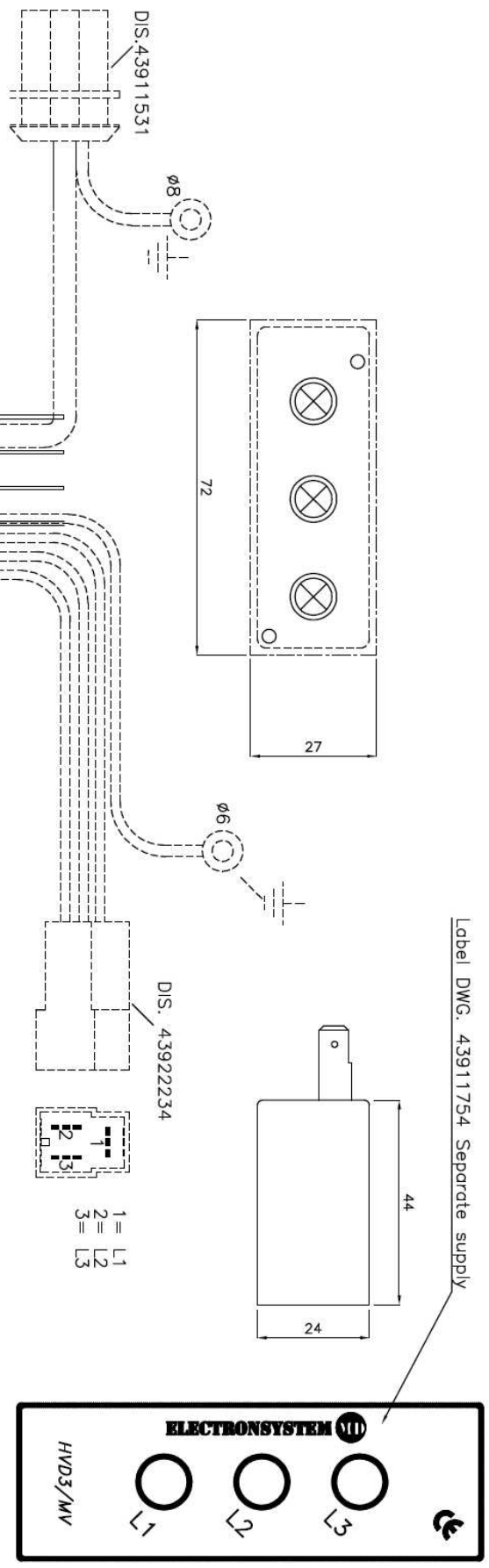
Box :	plastic housing filled by Polyurethan resin (2-component)
Connection input :	AMP waterproof connectors(*) or.....faston 6.3X0.8 (IP30)
Cable :	Reiter Lappkabel 0015703 approved VDE(NYSLYCYö-J) SEV(CH-NO5VC4V5-F) UL(AWM Style 2587) CSA(AWM I A/B II A/B) (*)

(*) on request

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Rev./Mod A	Data 12.05.2004	Rev./Mod B	Data 05.12.2006	Rev./Mod	Data	Rev./Mod	Data	Rev./Mod	Data
Descrizione: MODIFICATA ETICHETTA		Descrizione: MODIFICATO USCITA FASTON		Descrizione:		Descrizione:		Descrizione:	



ORDERING CODE:
Description : High voltage detector
Code : HVD3/MV/

code for identification of voltage/capacity see dis. 43911548 Fig. 2

F : Plugs for capacitive signal by faston
W : Plugs for capacitive signal by water-proof
A : Plugs for capacitive signal by cable connector

Piano di Completamento (UNI 4842-75)

LIVELLO	LOA
L2	1

Ci riserviamo tutti i diritti connessi con il presente documento e con l'oggetto o la materia ivi rappresentati con divieto di riproduzione, utilizzo o rendelo accessibile a terzi in assenza di previa autorizzazione.

NOTE :

- Plugs for signal coming from capacitor divider by faston 6.3x0.8 mm or other connection as described in order code.
- During order define capacity of divider and rated voltage (not requested in case of use of Electronsystem MD divider).
- Drilling template is shown by dashed-line.

Fig.	Material/Materiale		N° Series / Serie	Finishing / Finitura
Filing Room Archivio	Thread quality tolerance Tolleranza filetti qualità "gg-SS" UNI 5541-65	General tolerance for machining / Tolleranze generali per lavorazioni meccaniche:	Ester-fine / Fine Medion / Media Coarse / Grossolana	
Prep. G. FORLANI	Coord. Punching N.C. mach. Coord. punzon. a CN. JS11	Quality for linear dimension Qualità per quote lineari	JS12 JS13 JS15	
App. P. GUIZZETTI	Resp. Dep. Uff. Resp. Uff. Tecnico	Title Titolo	HIGH VOLTAGE MINI DETECTOR HVD3/MV/ _____ -DIMENSION AND FEATURES-	
Rev./Mod.	0 08.07.2003 : Emissione nuovo disegno	Appartus Approvato	Doc. No. 43911755	
ELECTRONSYSTEM MD S.r.l.		N° No. 1/1		