



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/M/DIP/_

- 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)
- Selectable sensitivity
- 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

VOLTAGE DETECTING SYSTEMS

01.10.2019

Rev./Mod A	Data 24/05/2007	Rev./Mod B	Data 14.11.2011	Rev./Mod C	Data 03.10.2013	Rev./Mod D	Data 07.11.2018	Rev./Mod E	Data 01.10.2019	Rev./Mod	Data
Descrizione: AGGIORNAMENTO DISEGNO		Descrizione: AGGIUNTO TABELLA		Descrizione: AGGIUNTO VERSIONE M HIGH EFFICIENCY		Descrizione: ADD SEPCIAL VERSION RYB		Descrizione: Add 3' dip-switch selection		Descrizione:	

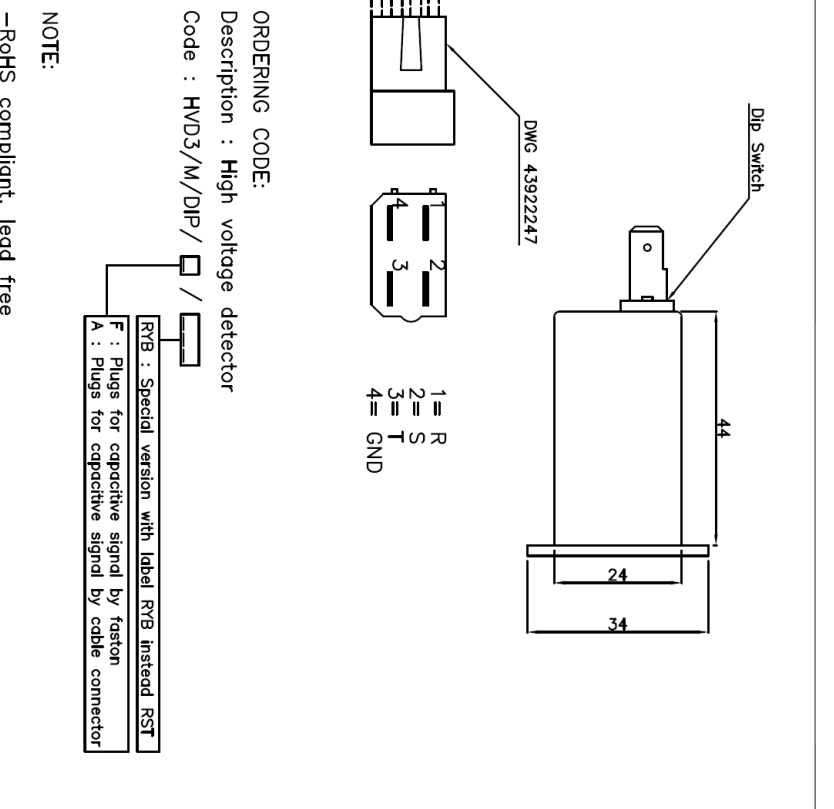
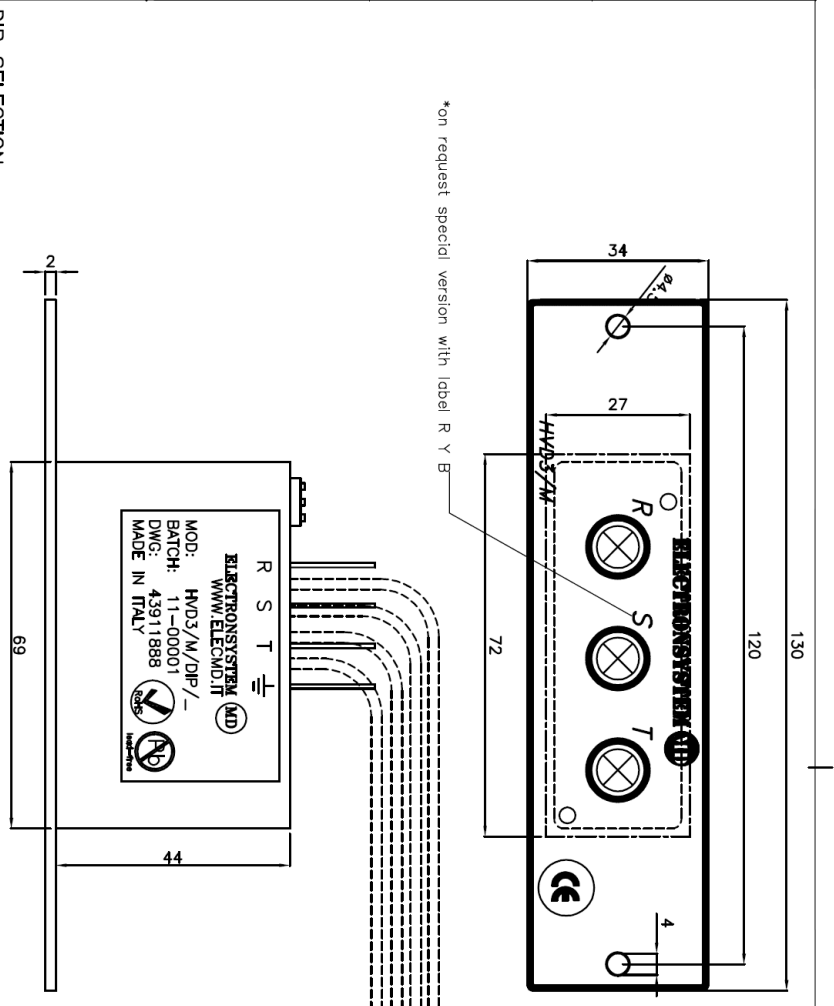
*** High sensitivity means it starts blinking with low coupling current**

Piano di Completamento (UNI ISO 2859)	
LIVELLO	LOA
L2	1

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DIP SELECTION:

DIP	GROUP	SENSITIVITY*
	P0	High
	P1	Medium
	P2	Low
	P3	Very Low



ORDERING CODE:
 Description : High voltage detector
 Code : HVD3/M/DIP / /

NOTE:

- RoHS compliant, lead free
- Plugs for signal coming from capacitor divider by faston 6.3x0.8 mm or other connection as described in order code.
- Correct capacitive coupling can be chosen by Dip-Switches in order to satisfy IEC requirements with any divider insulator.
- Completely fulfills IEC 61243-5 standard

Fig.	Material/Versione	N° Series / Serie	Finishing / Finitura
Filling Room Archivio	Thread quality tolerance Tolleranza filetti qualità "g-65" UNI 5541-65	General tolerance for machining / Tolleranze generali per lavorazioni meccaniche:	Enter-fine-Fine Mediam / Medio Coarse / Grossolana
Prep. G. FORLANI App. P. GUIZZETTI	Coord. Purchasing N.C. mech. Coord. purch. a C.N.	Quality for linear dimension Qualità per quote lineari	JS12 JS13 JS15
Rev./Mod.	06.09.2006 : Emissione nuovo disegno	Resp. Dep. Uff. Tecnico	Apparatus N° Doc.
ELECTRONSYSTEM MD S.r.l.		43911888	
Title HIGH VOLTAGE MINI DETECTOR HVD3/M/DIP / / -DIMENSION AND FEATURES-		Scale 1/2	

VOLTAGE DETECTING SYSTEMS

01.10.2019

Rev./Mod A	Data 24/05/2007	Rev./Mod B	Data 14.11.2011	Rev./Mod C	Data 03.10.2013	Rev./Mod D	Data 07.11.2018	Rev./Mod E	Data 01.10.2019	Rev./Mod	Data
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Piano di Compimento (UNI ISO 2859)	
LIVELLO	LOA
L2	1

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Prep. G. FORLANI
 App. P. GUIZZETTI
 Rev./Mod. 0 | 05.09.2006 : Emissione nuovo disegno

Filling Room Archivio	Thread quality tolerance Tolleranza filetti qualità "eg-65" UNI 5541-65	General tolerance for machining / Tolleranze generali per lavorazioni meccaniche:	N° Series / Serie
Coord. Purching N.C. mech. Coord. purching. a C.N. JS11	Quality for linear dimension Qualità per quote lineari	Finishing / Finitura	
Resp. Dep. Uff. Tecnico	Apparatus Apparato	Enter-fine / Fine	JS12
	Dec. No. 43911888	Median / Medio	JS13
		Coarse / Grossolana	JS15

