

ELECTRONSYSTEM MD TECHNICAL SHEET

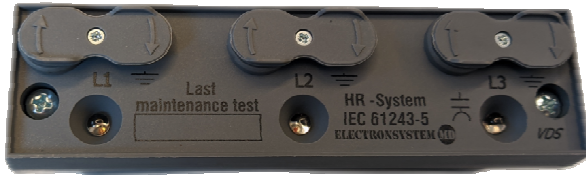
Revision 0 of 08/02/2021

APPLICATIONS

- Medium Voltage Switchboards

MAIN CHARACTERISTICS

- VDS is a voltage presence indicating system conform to IEC 61243-5 standard, type HR
- The device supplies continuously an electrical signal for phase comparison and optical blinking led for voltage indication
- Very wide and bright leds allow simple and safe visibility for personnel encharged in verification
- LED life time guaranteed - min. 30 years
- Suitable for panel mounting
- Conform to new Enel global specification GSM001 GSCM004
- Resin filled to protect internal electronic components against harsh environment



DESCRIPTION

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.

Electrical characteristics VDS

Coupling capacity range	pF	From 15 to 61
Medium Voltage range	kV	From 6 to 36
Power supply		No auxiliary power requested
Led Consumption	mW	< 1
Led Intensity	Mcd	3000@20mA
Dielectric Strenght	kV	275
Surge Strenght	kV	650
EMC/IEC tested		ENG96/026630
IP degree protection	IP	67
Connection input		Faston 6.3x0.8mm
Box		Plastic housing filled by epoxy resin (2 – components)

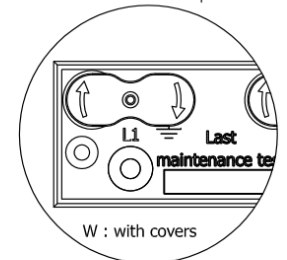
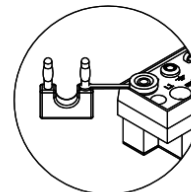
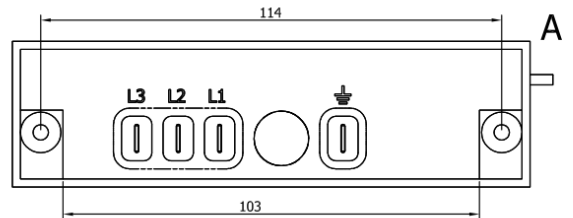
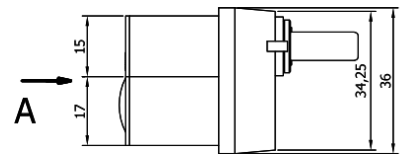
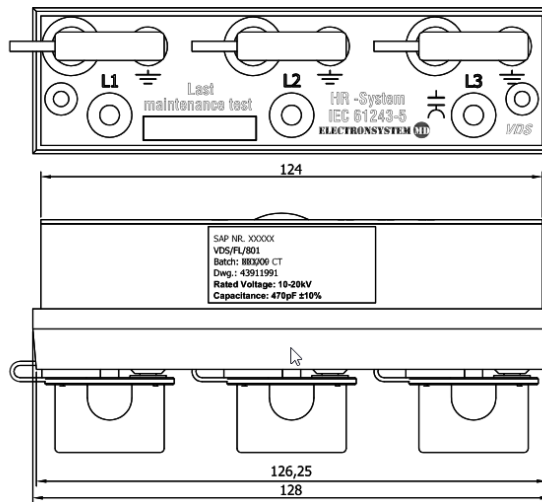
All specs are subject to change without notice

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Dimension VDS/FL

Drawing: 43911991



ORDERING CODE:
VOLTAGE DETECTING SYSTEM
Code : VDS / FL / [] / []

W : with covers

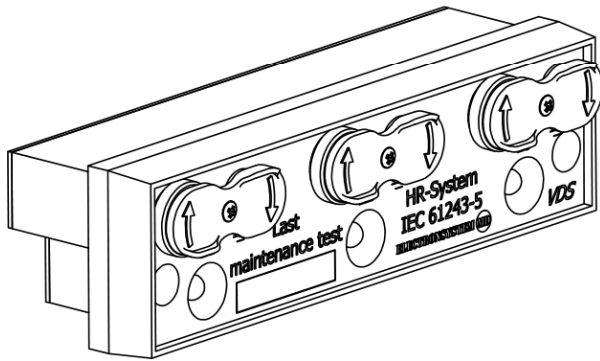
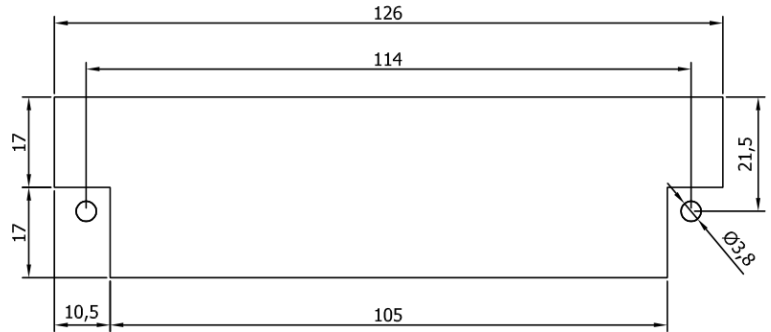
group : SEE TABLE 1

- NOTE:
- Box filled with epoxid resin until all components are covered
 - Connection : Faston 6,3 x 0,8 mm
 - Conform to IEC 61243-5

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DRILLING TEMPLATE



Hr System (Table 1)*

Group	Rated Voltage (kV)	Measuring capacitance (pF) (+/- 10%)	Coupling capacitance (pF) (+/- 10%)
801	10-20	470	22
802	6	100	15
803	6 / 10-20	220	22 / 15
804	6	560	48 / 61
805	10-20	1200	48
806	10-20	1500	61
808	3.6-10	∞	17

* Other groups available on request

STORAGE

If the complex must be storage before use, please keep dry and repaired.

Do not leave outdoor.

Device is strongly sensitive to humidity hence avoid to store where relative humidity is more than 90%

STORAGE TEMPERATURE: -30°C ÷ +70°C

RELATIVE HUMIDITY: max 90% @ +40°C

MAINTENANCE

Maintenance of transmitter must be done compulsory in factory. We recommend every 5 years to send back transmitter for calibration check and inspection.

WARRANTY

Device is covered by 24 months after installation or max 36 months after delivery.

In case of service the transmitter must be sent back to factory for inspection.

Electronsystem MD work in partnership with its customers in designing customized executions in order to meet specific requirements, please contact us.