CAPACITIVE VOLTAGE SENSORS FOR SCREENED SEPARABLE CONNECTORS
FOR INTERFACE C (EN 50180/EN 50181) UP TO 24 kV

KEY FEATURES

• High accuracy class suitable for metering, measuring and signaling tasks
• Tested according to the latest IEC-61869-11 and CENELEC HD629.1 S2
• Compact design using shortened cone for asymmetric T-connector
• Total galvanic isolation from the high voltage
• Capacitive voltage sensors can act as coupling capacitance for on-site partial discharge monitoring
• No need for auxiliary power supply
• Easy installation suitable for retrofit on medium voltage network

TE Connectivity’s (TE) Raychem capacitive voltage sensors for screened separable connectors are 24 kV low-power voltage transformers embedded into TE’s Raychem screened separable connection system RSTI 800A up to 24 kV. TE’s RSTI screened separable connector fits 630/1250A bushings type “C” as specified by EN 50180 and EN 50181.

Our capacitive voltage sensors are suitable for measurement and protection applications. They must be connected to meters and relays of new generation.

The capacitive voltage sensors are passive medium voltage instrument transformers based on capacitive voltage divider concept. They require no external power supply or battery. They provide inherent safety due to their capacitive divider concept, which has galvanic isolation from high voltage.

The capacitive voltage sensors are calibrated in the factory and no need for any further adjustment on site.

They are suitable for both new installations and retrofit solutions in medium voltage networks.

Customers can count on consistent, high quality products, driven by TE’s proven innovation and backed by our extraordinary customer support.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Insulation level (kV)</th>
<th>Accuracy class (via calibration correction factor in IED)</th>
<th>Rated burden, Rbr* (MΩ)</th>
<th>Rated primary voltage, Upm (kV)</th>
<th>Rated secondary voltage, Usn* (V)</th>
<th>Maximum voltage, Um (kV)</th>
<th>Rated voltage factor, Ku (V)</th>
<th>Nominal frequency (Hz)</th>
<th>Nominal transformation ratio, Kn* (V)</th>
<th>Bandwidth (-3dB) (Hz)</th>
<th>Applicable standard</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. 24/50/125</td>
<td>for protection</td>
<td>3P</td>
<td>20/√3</td>
<td>3.25/√3</td>
<td>24</td>
<td>1.9 for 8h</td>
<td>50/60</td>
<td>20 k / 3.25 (or 10 k / 1)</td>
<td>5 - 5 M</td>
<td>IEC-61869-11 CENELEC HD62915 2200</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td>for measurement</td>
<td>0.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HD62915 2200</td>
<td></td>
</tr>
</tbody>
</table>

* Parameter selectable by the customer at the time of the order:
- Rated burden
- Rated secondary voltage
- Length of connection cable
- Terminal of connection cable

### ORDER INFORMATION

<table>
<thead>
<tr>
<th>Product description</th>
<th>Product number</th>
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<tbody>
<tr>
<td>RSTI-V5-24-BP</td>
<td>ENS812-000</td>
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</tbody>
</table>

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**FOR MORE INFORMATION:**

TE Technical Support Centers

USA: + 1 800 327 6996  
France: + 33 380 583 200  
UK: + 44 0870 870 7500  
Germany: + 49 896 089 903  
Spain: + 34 916 630 400  
Italy: + 39 333 250 0915  
Benelux: + 32 16 508 695  
Canada: + 1 (905) 475-6222  
Mexico: + 52 (0) 55-1106-0800  
Latin/S. America: + 54 (0) 11-4733-2200  
China: + 86 (0) 400-820-6015