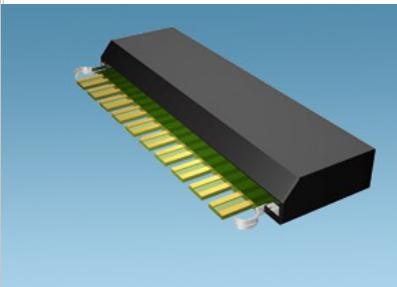
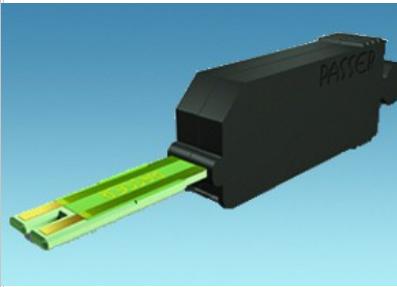
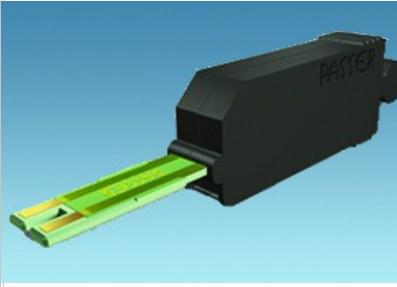


# PROTECTION MODULES CATALOG

Product	Appearance	Application	Type
<a href="#"><b>TOPx-y</b></a>		<ul style="list-style-type: none"> <li>Analog lines</li> <li>Keraunic level K&lt;30</li> <li>Underground shielded cables unexposed to interferences</li> <li><b>Reichle - De Massari modules:</b> VS83 Modular 10x2 and 12x2, VS92 Standard 10x2, VS Compact 10x2, 16x2 and 20x2; Krone modules: LSA Plus 10x2 and LSA Profile 10x2</li> </ul>	<ul style="list-style-type: none"> <li>Group one-stage overvoltage</li> <li>Three-pole gas discharge tubes with fail-safe clip</li> <li>Response time Tr&lt;500ns</li> </ul>
<a href="#"><b>TOPxV-y</b></a>		<ul style="list-style-type: none"> <li>Analog lines and low rate digital transmission</li> <li>Underground unshielded cables - keraunic level K&lt;30 and underground shielded cables - keraunic level K&lt;50</li> <li><b>Reichle - De Massari modules:</b> VS83 Modular 10x2 and 12x2, VS92 Standard 10x2, VS Compact 10x2, 16x2 and 20x2; Krone modules: LSA Plus 10x2 and LSA Profile 10x2</li> </ul>	<ul style="list-style-type: none"> <li>Group two-stage overvoltage</li> <li>Three-pole gas discharge tubes with fail-safe clip and varistors</li> <li>Response time Tr&lt;25ns</li> </ul>
<a href="#"><b>TOPxD-y</b></a>		<ul style="list-style-type: none"> <li>Analog lines and digital transmission</li> <li>Underground unshielded cables - keraunic level 30&lt;K&lt;50 and underground shielded cables - keraunic level 50&lt;K&lt;60</li> <li><b>Reichle - De Massari modules:</b> VS83 Modular 10x2 and 12x2, VS92 Standard 10x2, VS Compact 10x2, 16x2 and 20x2; Krone modules: LSA Plus 10x2 and LSA Profile 10x2</li> </ul>	<ul style="list-style-type: none"> <li>Group two-stage overvoltage</li> <li>Three-pole gas discharge tubes with fail-safe clip and varistors</li> <li>Response time Tr&lt;1ns</li> </ul>
<a href="#"><b>COP1-1y</b></a>		<ul style="list-style-type: none"> <li>Analog lines and digital transmission</li> <li>Overhead and underground unshielded cables - keraunic level K&lt;30 and underground shielded cables - keraunic level K&lt;50</li> <li><b>Reichle - De Massari modules:</b> VS83 Modular, VS92 Standard; Krone modules: LSA Plus and LSA Profile</li> </ul>	<ul style="list-style-type: none"> <li>One pair one-stage overvoltage and overcurrent resetable</li> <li>Three-pole gas discharge tubes with fail-safe clip and PTC thermistors</li> <li>Response time Tr&lt;500ns</li> </ul>

<u>COP10-1KLP</u>		<ul style="list-style-type: none"> <li>Analog lines and digital transmission</li> <li>Overhead and underground unshielded cables - keraunic level <math>K &lt; 30</math> and underground shielded cables - keraunic level <math>K &lt; 50</math></li> <li><b>Krone modules: LSA Plus and LSA Profile</b></li> </ul>	<ul style="list-style-type: none"> <li>Group one-stage overvoltage and overcurrent resetable</li> <li>Three-pole gas discharge tubes with fail-safe clip and PTC thermistors</li> <li>Response time <math>Tr &lt; 500\text{ns}</math></li> </ul>
<u>TPM1-x/L</u>		<ul style="list-style-type: none"> <li>Analog lines and digital transmission</li> <li>Overhead and underground unshielded cables - keraunic level <math>30 &lt; K &lt; 50</math> and underground shielded cables - keraunic level <math>50 &lt; K &lt; 60</math></li> <li><b>Reichle - De Massari modules: VS83 Modular, VS92 Standard; Krone modules: LSA Plus and LSA Profile</b></li> </ul>	<ul style="list-style-type: none"> <li>One pair two-stage overvoltage and overcurrent</li> <li>Three-pole gas discharge tubes with fail-safe clip, varistors and inductive elements</li> <li>Response time <math>Tr &lt; 25\text{ns}</math></li> </ul>
<u>TPM1-x/DTR</u>		<ul style="list-style-type: none"> <li>Analog lines and digital transmission</li> <li>Overhead and underground unshielded cables - keraunic level <math>50 &lt; K</math> and underground shielded cables - keraunic level <math>60 &lt; K</math></li> <li><b>Reichle - De Massari modules: VS83 Modular, VS92 Standard; Krone modules LSA Plus and LSA Profile</b></li> </ul>	<ul style="list-style-type: none"> <li>One pair two-stage overvoltage and overcurrent resetable</li> <li>Three-pole gas discharge tubes with fail-safe clip, diodes and PTC thermistors</li> <li>Response time <math>Tr &lt; 1\text{ns}</math></li> </ul>
<u>APM2-RJ45</u>		<ul style="list-style-type: none"> <li>Latest generation digital equipment</li> <li>Overhead and underground unshielded cables - keraunic level <math>50 &lt; K</math> and underground shielded cables - keraunic level <math>60 &lt; K</math></li> <li><b>Equipment and cables with RJ45 connectors</b></li> </ul>	<ul style="list-style-type: none"> <li>One pair two-stage overvoltage and overcurrent resetable</li> <li>Three-pole gas discharge tubes with fail-safe clip, diodes and PTC thermistors</li> <li>Response time <math>Tr &lt; 1\text{ns}</math></li> </ul>