







## LED drivers now have 'built in' surge protection up to 10kV! What does this mean?

Drivers can now be sourced with higher than the normal 4kV surge rating. This must be a good thing particularly for exterior LED lighting. Does it however mean we don't need an external SPD? This table will help you assess the potential consequences of not using an external SPD.

		Behaviour based on a surge = 5kV-10kV	Behaviour based on a surge = 10kV-20 kV	Behaviour based on a surge = 20kV or TOV	Compliance to IEC surge protection safety standards	Risk of 'ageing' and premature failure
<b>Standard Driver (surge = 4 kV)</b>		FAILURE	FAILURE	FAILURE	NON COMPLIANT	HIGH
<b>'Reinforced' Driver (surge = 10kV)</b>		SURVIVAL	FAILURE	FAILURE	NON COMPLIANT	HIGH
<b>Standard Driver (remote SPD)</b>	 + 	SURVIVAL	SURVIVAL	DRIVER SURVIVES SPD FAILS	COMPLIANT	LOW
<b>'Reinforced' Driver (remote SPD)</b>	 + 	SURVIVAL	SURVIVAL	DRIVER SURVIVES SPD FAIL	COMPLIANT	LOW