

## OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
EN 62031:2008/A2:2015	8	DSH 1067A	2019
<b>Category</b>			
LITE			
Subject	Keywords	Developed by	Approved at
Clause 8 - Terminals	<ul style="list-style-type: none"> <li>- Terminals</li> <li>- Connectors</li> <li>- Applicable standards</li> </ul>	OSM/LUM-ETF5	2019 ETICS Plenary Meeting
<b>Question</b>			
<p>According to the Standard EN 62031:2008/A2:2015, Clause 8 Terminals:</p> <ul style="list-style-type: none"> <li>- For screw terminals, the requirements of IEC 60598-1, Clause 14, shall be used, if applicable.</li> <li>- For screwless terminals, the requirements of EN 60598-1, Clause 15, shall be used, if applicable.</li> <li>- For connectors, the requirements of EN 60838-2-2 shall be used, if applicable.</li> </ul> <p>However, in Clause 5 of EN 60838-2-2, the maximum rated voltage is 50 V a.c. (and an equivalent maximum d.c. voltage of 120 V is under consideration).</p> <p>Nowadays there are many LED modules with integrated connector with rated voltages higher than 50 V d.c., therefore the Standard EN 60838-2-2 would not be applicable.</p> <p>Which standard is applicable to a LED module connector with a rated voltage higher than 50 Vdc (for example 150 V dc)?</p>			
<b>Decision</b>			
<p>For LED module connectors with a rated voltage higher than 50 V a.c. or d.c., EN 61984 or EN 60598-1 (Clauses 14-15) can be used.</p> <p>If the connector is used in a LED module with rated voltage &lt; 50 V a.c., EN 60838-2-2 can be used.</p> <p>If any other component standard is used it should cover the rating of the connector (voltage, current, temperature etc.).</p>			
<b>Explanatory notes</b>			
<p>EN 61984:2009 is applicable for connectors with rated voltages above 50 V and up to 1000 V a.c. and d.c. and rated currents up to 125 A per contact, for which either no detail specification (DS) exists or the DS calls up this standard for safety aspects.</p>			