

## LIA LABORATORY DECISION SHEET

Standard(s) (incl. year)	Subclause(s)	Enquiry No.	Year
EN 60598-1 (all editions); EN 61347-1 (all editions)	7.2.1; 9.4, 9.5	EF-1 LIA_08_2020	2020
		<b>Decision No.</b>	
		DS-1 LIA_08_2020	
Subject	Keywords		
Earthing of luminaire via controlgear	Built-in controlgear, Independent controlgear		
Question			
Can be luminaire connected to earth via independent controlgear?			
Decision			
<p>As it is specified in EN 60598-1, cl. 7.2.1:</p> <p>'It is allowed to earth built-in control gear by means of fixing the control gear to earthed metal parts of the luminaire. Connection to protective earthing of the luminaire via the built-in control gear is not allowed.'</p> <p>There is no any mention in EN 60598-1 about connection of the luminaire body to earth via the independent controlgear.</p> <p>But EN 61347-1, cl. 9.5 specifies</p> <p>'Independent lamp controlgear may have earthing terminals that allow the onward earth connection to other equipment in the installation. For looping or through connection, the conductor shall have a minimum cross-section of 1,5 mm<sup>2</sup> and be of copper, or an equivalent conductive material shall be used. Protective earthing wires within the luminaire shall be in line with 5.3.1.1 and Section 7 of IEC 60598-1:2014. For looping-through, a minimum cross section of 1,5 mm<sup>2</sup> is required.'</p>			
Explanatory Notes			
Yes, if independent controlgear has got earthing terminal that allows the onward earth connection to luminaire. Luminaire with such construction has to fulfill all relevant requirements as specified in EN 60598-1 (e.g. section 7, section 4.11, 4.12, section 14 / section 15, etc.).			
Date	Name	Signature	
05/05/2020	Anton Borovy		