

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s):	Tracking No.	Year
EN 60598-1:2015/A1:2018	12.5.1	DSH 0925B	2019
Category:			
LITE			
Subject:	Key words:	Developed by	Approved at
Abnormal operation condition	IP 00 transformer IEC 61558-1 ed.2 Short-circuit test	OSM/LUM-ETF5	2019 ETICS Plenary Meeting
Question			
<p>According to § 12.5.1.4), in a luminaire with transformer rated 230/12V, the unsafe condition is a short circuit in the secondary. The transformer used is a not short circuit protected safety isolating transformer fitted with an EN 60127 standardised fuse. In our opinion, the most unfavourable condition will be the overload (2,1xIn; 30' or 2,1xIn, 2' depending on the technical data sheet of the fuse, and 1,5 x I fuse until steady-state condition), instead of a short-circuit, because a short-circuit in the secondary results in immediate blowing of the fuse. No temperature rise could be measured.</p>			
Decision			
<p>Luminaires containing an associated transformer or an IP 00 transformer shall comply with the relevant test described in EN 61558-1 clause 15 (compare the note in EN 61558-1, clause 4.2). In addition the short-circuit test described in EN 60598-1, sub-clauses 12.5.1.4), 12.6 and 12.7 must be performed.</p>			
Explanatory notes			
