

CTL DECISION SHEET

Standard: IEC 60570/2003	Sub clause: 12	Sheet N°: 558/06 Page: 1(1)
Subject: Extra safety circuit equivalent to SELV or double/reinforced insulation	Key words: - SELV condition - Electronic means - IEC 60364-4-41 IEC 61140	Meeting: Decision confirmed at 44th CTL meeting
<p>Question: A client wants to combine a 230 V track system (according to IEC 60570) with a bus-track system, which tracks are accessible. Consequently the bus-tracks may be supplied by a SELV source only, or connected to circuits, which are insulated from live parts by double or reinforced insulation. Due to the fact that both DALI systems (or similar systems) and control systems of electronic ballasts do not comply with the requirements of double insulation, our client created an additional safety circuit between the bus-track and DALI system/electronic ballast. The extra safety circuit consists of six zener diodes (>50 V) and four fuses (250 mA). The diodes guard the system to voltage higher than 50 V and the fuses protect the system against high currents. In this way SELV conditions are guaranteed.</p> <p>Decision: In principle the SELV condition can be reached by electronic means at least according to the standards IEC 60364-4-41 and IEC 61140.</p> <p>Explanatory notes: --</p>		