

Emergency Lighting DALI control System

Pre-commissioning Checklist

Information required by the commissioning technician for commissioning of the system.

Site Address/Details:

Engineer:

Company:

Contact details:

Date:

Item	Description	Yes	No	N/A
1	Installation			
1.1	Are all emergency control gears certified for use under the conditions of the Digital Illumination Interface Alliance (DiiA) standards and working group practices?			
1.2	Are all emergency luminaires/exit signs installed to the relevant requirements, standards and codes of practice for emergency lighting installations (e.g. EN 1838, BS 5266-1, AS/NZS 2293)? Smart EM Master only operates with Class 1 DALI Devices.			
1.3	Are all emergency luminaires/exit signs powered from the unswitched mains supply?			
1.4	Do all emergency luminaires/exit signs have batteries connected and are charging or are fully charged (flashing or steady green LED indication)?			
1.5	Are all emergency luminaires/exit signs connected to a Smart EM Master DALI line?			
1.6	Does the specification of DALI cable meet the requirements for mains rated cable?			
1.7	Maximum length of cable being used on this DALI line < 300m? This is the sum of the main feed cable and all the subbranches. The system supports star and 'in/out' topologies. NO LOOPS (rings) are permitted in any DALI line.			
1.8	Does the specification of DALI cable meet the following conductor cross-sectional area? 1.0mm ² for line length < 200m 1.5mm ² for line length < 300m			

Item	Description	Yes	No	N/A
1.9	Is measured voltage drop <2V between farthest communicating devices on each DALI line?			
1.10	Maximum of 64 devices per DALI loop? Safe working practice --- 60 Devices			
2	Identification of Emergency Luminaires/Exit Signs			
2.1	Is there a copy of the building plan available to the commissioning technician showing the position of all emergency luminaires/exit signs? It is strongly advised that the building is planned with precise locations of the emergency lighting. This will help to avoid any issues later and for the future maintenance of the building.			
2.2	Have all emergency devices had their location name recorded on the building plan or device location record sheet? It is strongly advised that the building is planned with precise locations of the emergency lighting. This will help to avoid any issues later and for the future maintenance of the building.			
2.3	In case of "NO" to item 2.2, are Address or Number labels attached to an external visible surface of the luminaire/exit sign? Precise device labelling is strongly recommended to avoid hours of tracing of luminaires within the system control panel.			
3	Test Schedule and Grouping Information Important Note: the following information should be determined and agreed between the building owner/occupier and responsible maintenance engineer. Groupings and test schedules should be configured to be compliant with the relevant requirements for automatic testing of emergency lighting systems (e.g. to ensure that adjacent emergency luminaires do not enter test or re-charge periods at the same time).			
3.1	Have emergency luminaires/exit signs been planned into a grouping scheme suitable for the application of automatically scheduled testing?			
3.2	Have the groups been copied to the individual addresses on the fitting Location Record Sheets? It is strongly advised that the building is planned with precise locations of the emergency lighting. This will help to avoid any issues later and for the future maintenance of the building.			
3.3	Has a testing schedule for the groups been defined and agreed with the building owner/occupier?			