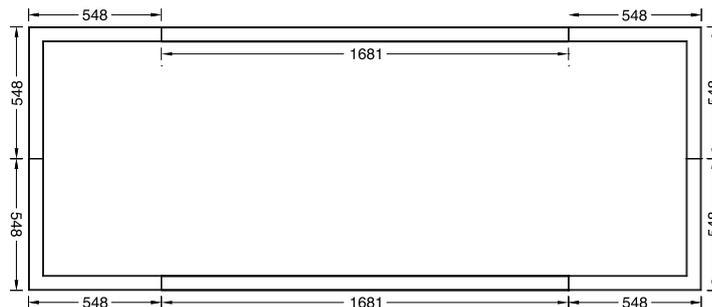# unios.

LX Infinity

CIRCUIT ALLOWANCE TABLE

This Instruction Manual has been provided to assist with circuit planning for Unios LX Infinity configurations. The table below can be used whether it is one large configuration, or multiple smaller configurations grouped onto a single power circuit. Simply add up the allowance consumed by each length component ensuring the allowance does not exceed 100% for both RCD and MCB allowances.

For combination RCBOs, check each allowance separately. These allowances allow a safe margin to avoid nuisance tripping due to In-Rush Current or Earth Leakage Current which is an inherent issue with all electronic LED drivers. Information is also provided for the number of DALI addresses required for proper control where DALI drivers have been specified. Allowances are also applicable for non-Dim specified models.

Example: LX Indirect with Dual Switching

Circuit and Components	2x LX Infinity 1681mm length	4x LX Infinity L Component	Circuit: C16 RCBO
Required DALI Addresses	2x 1681mm: => 2 Addresses each (4 Total)	4x 548 (L): => 2 Addresses each (8 Total)	Total: 12 DALI Addresses
RCD Load	2x 1681mm: 2x 4.5% (9%)	4x 548 (L): 4x 4.0% (16%)	23% RCD Loading
Circuit Breaker Load	2x 1681mm: 2x 6.5% (13%)	4x 548 (L): 4x 4.0% (16%)	29% Breaker Loading

From the calculation above (3 x 29% = 87%), up to 3 rectangle configurations of this size may be safely put on the same circuit.

Direct Models

Length	#DALI ADDR	Leakage	30mA RCD Load	C10 Circuit Load	C16 Circuit Load	C20 Circuit Load
1121mm	1	191µA	2.0%	4.0%	2.5%	2.0%
1401mm	1	244µA	2.5%	7.0%	4.0%	3.5%
1681mm	1	244µA	2.5%	7.0%	4.0%	3.5%
1961mm	1	319µA	3.5%	10.0%	6.0%	4.5%
2241mm	1	319µA	3.5%	10.0%	6.0%	4.5%
L (548x548mm)	1	191µA	2.0%	4.0%	2.5%	2.0%

Indirect Models

[A]*Dual Switching (DAC2) variants require 2 addresses for individual Up/Down control.*
[B]*Lengths always require 2 addresses due to 2 drivers being utilised.*

Length	#DALI ADDR	Leakage	30mA RCD Load	C10 Circuit Load	C16 Circuit Load	C20 Circuit Load
1121mm	1/2[A]	382µA	4.0%	7.0%	4.0%	3.5%
1401mm	1/2[A]	382µA	4.0%	10.0%	6.0%	4.5%
1681mm	2[B]	435µA	4.5%	10.5%	6.5%	5.0%
1961mm	2[B]	510µA	5.5%	14.0%	8.5%	7.0%
2241mm	2[B]	510µA	5.5%	14.0%	8.5%	7.0%
L (548x548mm)	1/2[A]	382µA	4.0%	7.0%	4.0%	3.5%

Recessed Models

Length	#DALI ADDR	Leakage	30mA RCD Load	C10 Circuit Load	C16 Circuit Load	C20 Circuit Load
1121mm	1	<20µA	0.5%	4.0%	2.5%	2.0%
1401mm	1	<20µA	0.5%	4.0%	2.5%	2.0%
1681mm	1	<20µA	0.5%	4.0%	2.5%	2.0%
1961mm	1	<20µA	0.5%	7.0%	3.5%	3.0%
2241mm	1	<20µA	0.5%	10.0%	5.0%	4.5%
L (548x548mm)	1	<20µA	0.5%	4.0%	2.5%	2.0%