

NatureConnect

by Signify

Commissioning guide

NatureConnect & DALI

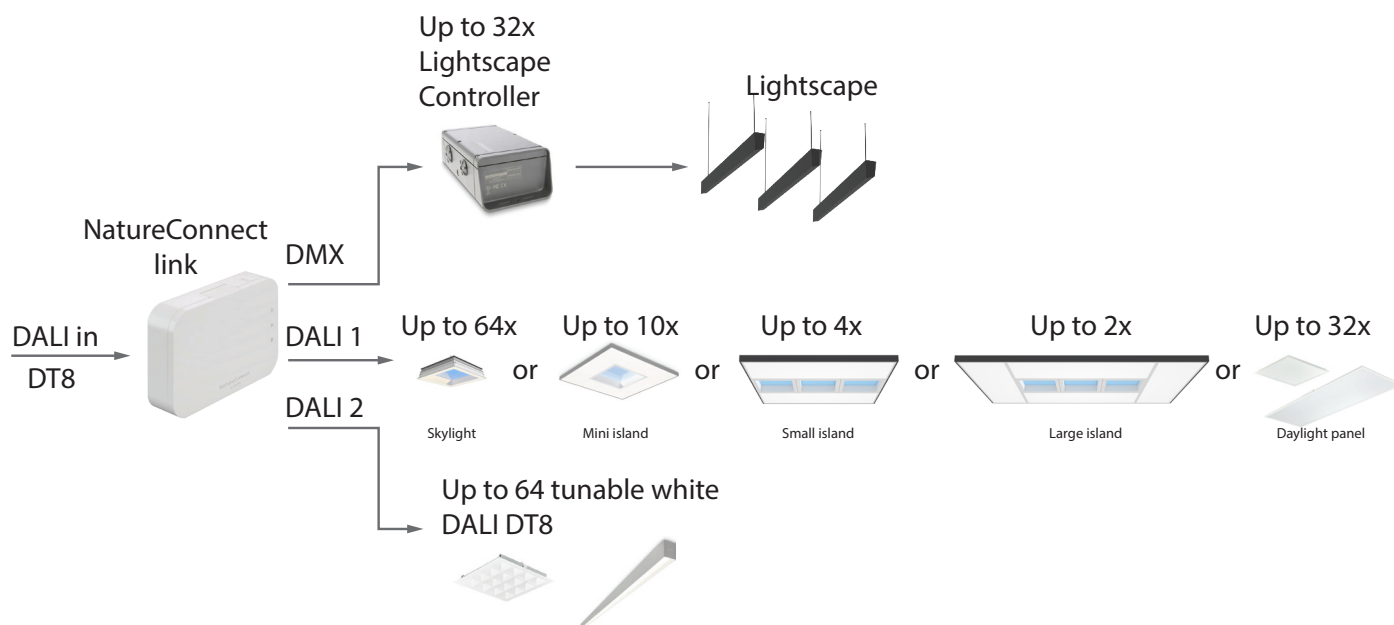
February, 2025



Introduction

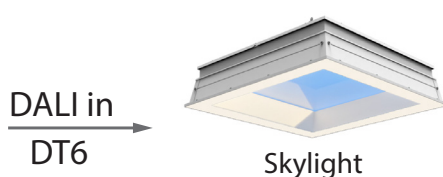
NatureConnect is compatible with two DALI system architectures. One is based on the NatureConnect link and can be controlled with any control system that supports DALI DT8 tunable white. The other can be controlled without a NatureConnect link, with a control system that supports DALI DT6.

High level system architecture for DALI DT8 with NatureConnect complete portfolio.

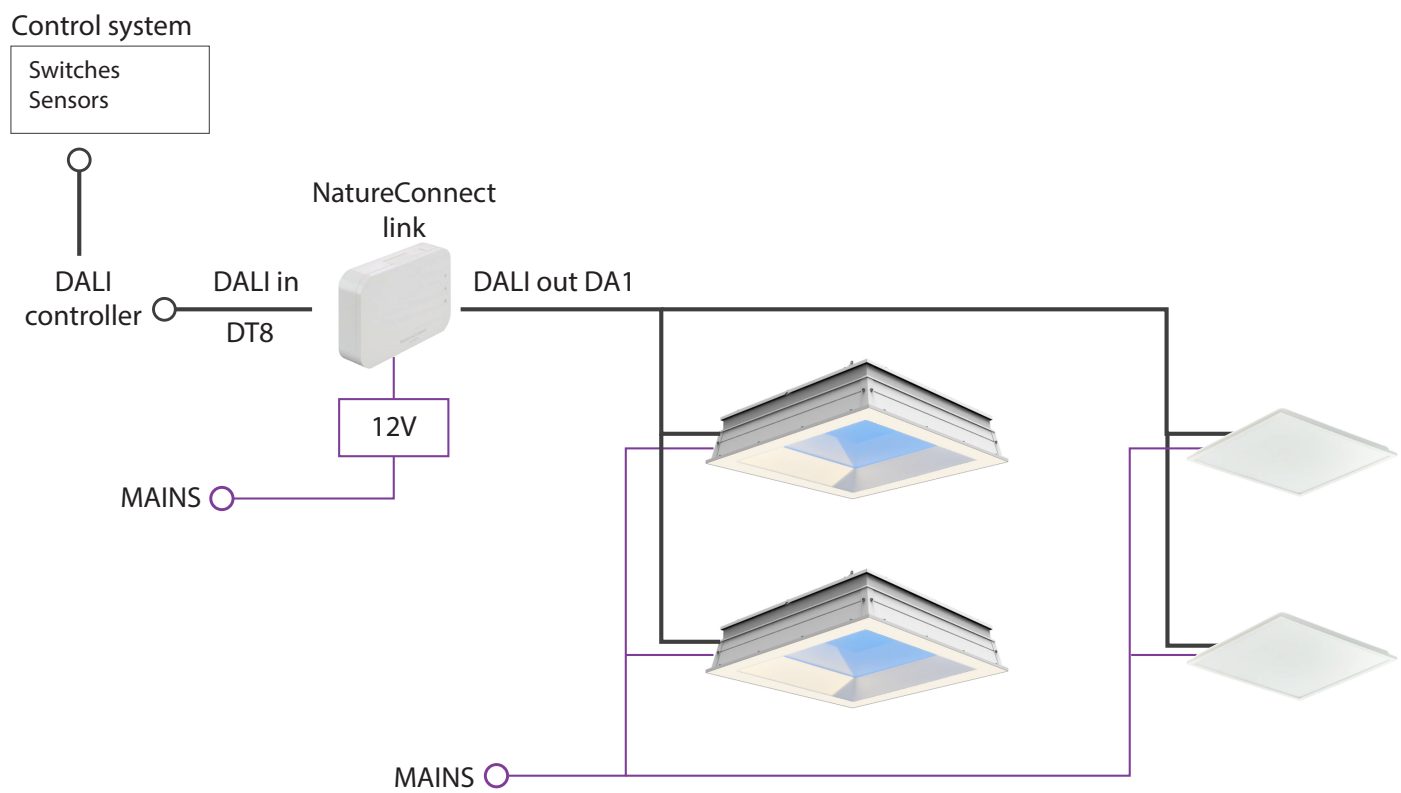


High level system architecture for DALI DT6 with NatureConnect Skylight only.

When using only Skylight W60L60 or W62L62 it is possible to connect the luminaire directly to a DALI control.



DALI control with NatureConnect link



NatureConnect link makes use of a DALI CCT value, coming from the DALI controller, to enable the “Dim to warm” dynamic behaviour. The colour temperature of the luminaire is related to the brightness level. With the maximum light output the light is cold, when dimming to lower values, the colour temperature is warmer.

It is possible to select the desired scene (Day Rhythm, Energize and Relax) based on the brightness level.

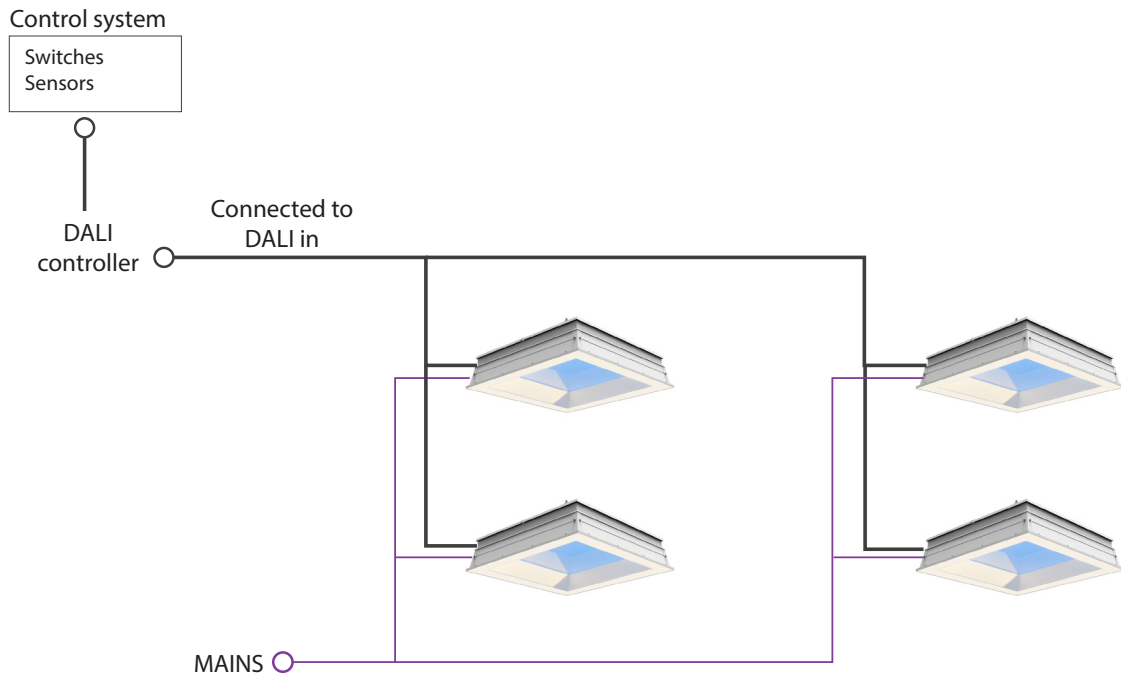
The “Dim to warm” behaviour is dynamic, it changes brightness, and CCT, during the day.

The DALI control system needs to be configured with the following values:

Scene (Dynamic)	CCT (K)	Brightness	DALI DAPC
Relax	3200	50%	229
Day Rhythm		75%	244
Energize		100%	254

All luminaires connected to the same link will behave in the same way.

DALI control directly connected to NatureConnect skylight*

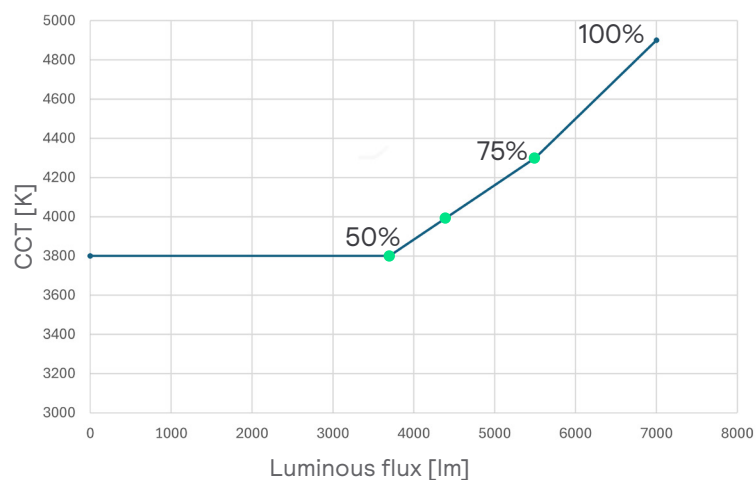


The colour temperature of the luminaire is related to the brightness level. With the maximum light output the light is cold, when dimming to lower values, the colour temperature is warmer.

It is possible to select the desired scene (Day Rhythm, Energize and Relax) based on the brightness level.

The “Dim to warm” behaviour is static, it maintains the selected mode during the day.

Scene (Static)	Brightness	DALI DAPC
Relax	50%	229
Day Rhythm (noon)	75%	244
Energize	100%	254



* Direct connection to DALI controls only possible with NatureConnect Skylight



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