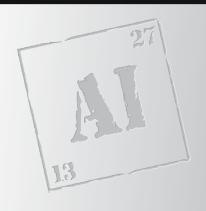
GIOBAL control plus



The way to create

Dynamic Lighting



with control track & DALI control panel for accent lighting and window display solutions in particular

NGA

GIOBAL量® control plus



Why Dynamic Lighting

In the field of retail business the winners are those who can catch the attention of the customers. What counts today is not to "illuminate" retail facilities but to use lighting effects to enable the customers to experience the displayed products and to stimulate them to buy.

Dynamic lighting uses theatrical changing light scenes instead of static light settings. Constantly altering light scenes using changing brightness and intensity, also colours, guide the customers' attention from product to product. Dynamic lighting makes the customer to note the accentuated products, catches his attention and interest. The result is a high level of attention and a consumption promoting ambience.

Nordic Aluminium's solution is a lighting track system including control wires for transporting signals to individual light fixtures, combined with a DALI control panel with software for the creation of theatrical effects. With the DALI control panel preset scenes can be created and stored. Dynamic sequences are programmed easily using the preset scenes. The control track system offers the flexibility to position fixtures in the desired place and to change their place when needed. The Plug-and-Play solution offers intelligence in its compact control panel. Everybody has the opportunity to easily create and activate new light scenes time after time and to a low cost.

The unique features of GLOBAL control plus system

- ideal for **shop window** lighting
- suitable also for exhibitions, museums, restaurants etc.
- **flexibility** with DALI compatible lighting tracks
- an **economical** way to create theatrical light scenes
- easy to plan, install and use, plug and play with the new DALI control panel
- combine up to 64 fixtures in the system and create up to 16 groups and up to 16 scenes

What is DALI?

DALI (**D**igital **A**ddressable **L**ighting **I**nterface) is a protocol designed for control of lighting systems. It is especially meant for small installations offering many benefits for its users:

- individual control of fixtures
- economical way to control lighting
- easy to add additional fixtures
- supported by main lighting and component manufacturers

GLOBAL control plus system consists of track system and **DALI control panel**

Control track system GNC

- the new control track is DALI compatible (fulfils FELV requirements). No additional bus component for fixture is needed.
- it is also suitable for other control standards (e.g. DMX, EIB, LON, 1–10 V etc.)
- patented construction
- proven technics of GLOBAL track pro
- 3 integrated control wires (+, -, signal ground).
 DALI needs 2 wires (+, -), but e.g. DMX needs
 3 wires (+, and signal ground)
- length of the control track installation up to 100 m
- new control adapter GAC 100

DALI control panel GNC DP

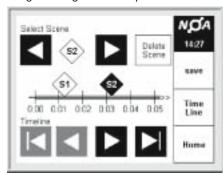
General

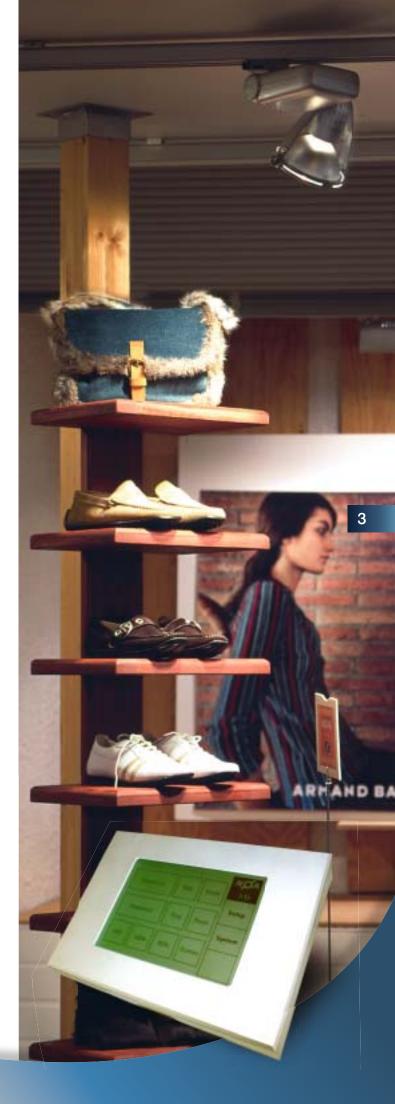
- designed for Nordic Aluminium's new GLOBAL control track system
- includes software to control lighting with DALI protocol
- touch screen user interface

Features

- easy to program and to run individual dynamic sequences, time related programs, loops (period 1 min–24 h) or clock related programs (24 h).
 2 programs in memory of which 1 program runs at a time.
- allow to program and to call scenes, 16 pcs (includes each up to 16 groups)
- permanent scenes: all on/off, 10 %, 50 % and 100 %
- power supply for DALI bus
- panel languages: English, German, Swedish and Finnish

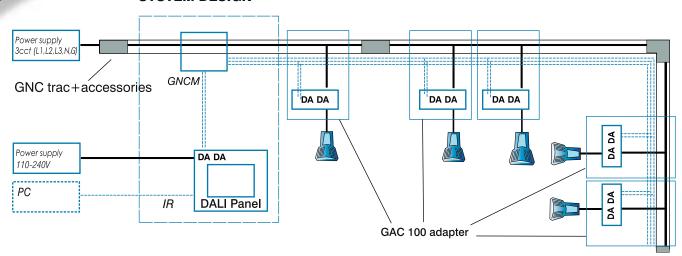
Programming of time-dependant scenes



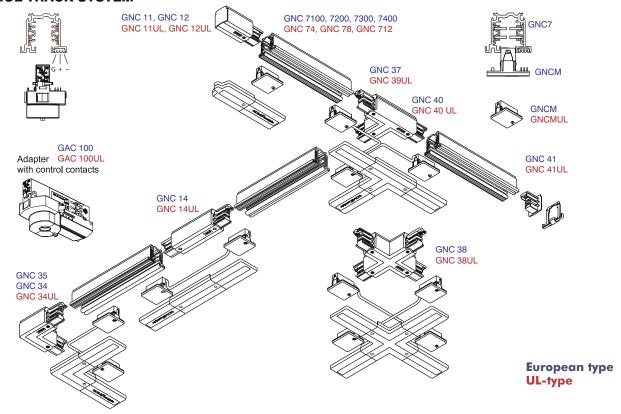


GIOBAL置®control plus

SYSTEM DESIGN



CONTROL TRACK SYSTEM

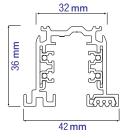


CONTROL LIGHTING TRACKS

- ➤ L1 + L2 + L3 + neutral + ground + 3 x 1 A 50 V FELV AC
- ➤ 16 A 400 V, 20 A 120 V
- ➤ DALI-compatible (FELV), also for DMX, LON, EIB, I-10V etc.
- available colours: *
 - -1 natural anodised aluminium, -2 black RAL 9005, -3 white RAL 9010

European type	Lenght/mm	kg	UL-type	Length	lbs
GNC 7100	1000	1	GNC 74	4′	2,7
GNC 7200	2000	2	GNC 78	8′	5,4
GNC 7300	3000	3	GNC 712	12'	8,1
GNC 7400	4000	4			

^{*}ordering example: GNC 7100-2=black, 1000 mm long track

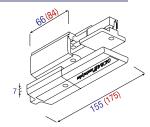




End feeds

- for power and control connections
- set: power feed, control module + connection cable + cover



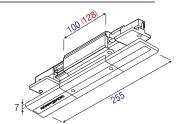




Middle feed

- for mechanical and electrical connection of two tracks
- set: power joint, two control modules with connection cable + cover



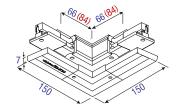




L-feeds

- for mechanical and electrical connection of two tracks
- for power feed
- set: power joint, two control modules with connection cable + cover

GNC 34 GNC 34UL GNC 35 (turnable)

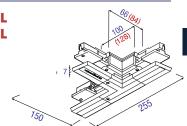




T-feeds

- for mechanical and electrical connection of three tracks
- for power feed
- set: power feed, three control modules with connection cables + cover



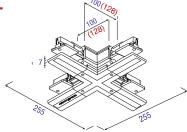




X-feeds

- > for mechanical and electrical connection of four tracks
- for power feed
- set: power feed, four control modules with connection cables + cover







Control module

- for control feed
- max diameter of control cable is 3 mm suitable cable: e.g. Belden 1883A 2x24AWG

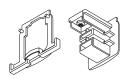




End cap

for covering the end of the track

GNC 41 GNC 41UL





Control adapter

GAC 100

GNCM

GAC 100UL

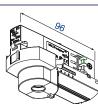
10 A, 250 V

1200 W, 120 V

GNCMUL

- control contacts +, -, signal ground, FELV
- pull strength 100 N (20 lbs.)
- standard NA nipples
- slot connetion tool GB 66CT is needed for making power connection
- > other suitable adapters: XTSA 68, GA 69 and GA 100 (only power connection)





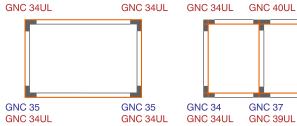
GIOBAL 是 control plus

USE OF CONNECTORS

GNC 11 GNC 12 GNC 12UL

Floor view European type UL-type

DALI protocol does not allow a closed loop control wiring
GNC 35 GNC 35 GNC 34 GNC 40 GNC 3



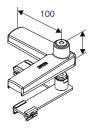
SUSPENSION PARTS

Available colours: -2 black RAL 9005, -3 white RAL 9010

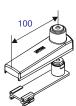


SP 4R / SP 4PUL

Point clamp suspension F_{max} 200 N (40 lbs)

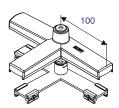


SP 4L / SP 4LUL L-feed suspension F_{max} 100 N (20 lbs)



SP 4E / SP 4EUL

End feed suspension F_{max} 100 N (20 lbs)



SP 4T / SP 4TUL T-feed suspension F_{max} 200 N (40 lbs)

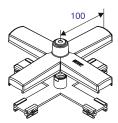
100

SP 4I/ SP 4IUL

Middle feed suspension F_{max} 200 N (40 lbs)

GNC 34

GNC 34UL

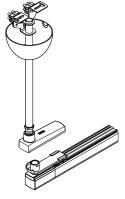


SP 4X / SP 4XUL

X-feed suspension F_{max} 200 N (40 lbs)

SUSPENSION DEVICES

Available colours: -2 black RAL 9005, -3 white RAL 9010 Other UL-suspension components: contact USA sales office



SP C16 / SP US 12...48

Conduit suspension set Ø 16 mm, length 1000 mm (Ø 3/8", in 12, 18, 24, 48, inch lenghts) F_{max} 200 N (40 lbs)



SP R6

Rod suspension set M6, length 1000 mm F_{max} 200 N (40 lbs)



SP W1

Wire suspension set Terminal M6, length 1500 mm F_{max} 150 N (30 lbs)



SP R61

Rod extension set M6, length 1000 mm F_{max} 200 N (40 lbs)

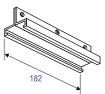
MOUNTING ACCESSORIES



SKB 12Ceiling clamp (-1, -2, -3)



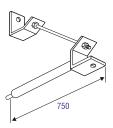
SKB 16 Suspension clamp (-1,-3)



SKB 18 Support (-1,-3)



SKB 40Height adjusting sleeve M6 (-1)
adjustable to 20 mm



SKB 23 Wall bracket (-1)



SKB 21 Wall bracket (-1)

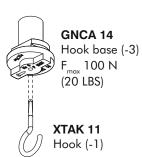
SPW 50 Suspension wire (-1) (ø 1,5 mm) L= 50 m

GNCV 12

Bending tool

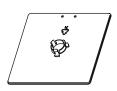
for power wires

OTHER COMPONENTS









GES 15J-box cover for UL-parts

DALI control panel



GNC DP

- inculudes panel and connection cable to the track
- frame made of aluminium, fixing holes for wall mounting
- panel languages: English, German, Swedish and Finnish
- dimensions 200 x 150 x 42 mm
- screen size: 5,7", colour screen
- Infra-Red interface to update software with computer
- power supply 110–240 V
- weight 1,5 kg (3,3 lbs.)

DALI TRANSFORMERS OR BALLASTS (not available from Nordic Aluminium)

Tridonic components

- electronic transformers for halogen lamps TE 0105 one4all, TE 0150 one4all
- electronic ballasts for compact fluorescent lamps

PCA EXCEL one4all

- Relay model for HID lamps DALI RM
- ➤ LED-converters LED 0025 K210 24 V one4all

Suitable components from other suppliers.









GlOBAL E control plus



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