



Mot ljusare tider med DALI och ET 200

Optimera belysningen i eller runt din industriapplikation

Agenda

Innehåll

Utfall/lärdomar

- | | | |
|---|----------------|--|
| 1 | DALI-standard | Ökad vetskap för standarden och dess funktioner |
| 2 | DALI+ET200SP | DALI:s användningsområden inom SIMATIC-värden |
| 3 | Tekniska ramar | Verktyg som underlättar integration av produkten |
| 4 | Frågor | |

| Grundläggande information

Vad är DALI och vad innebär standarden?

Grundläggande information

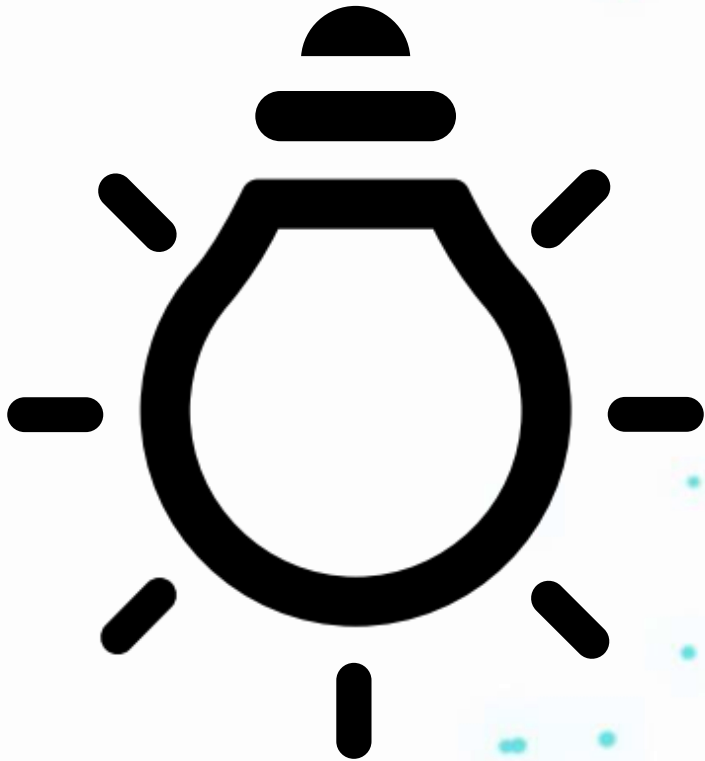
Vad är DALI?

Digital Addressable Lighting Interface

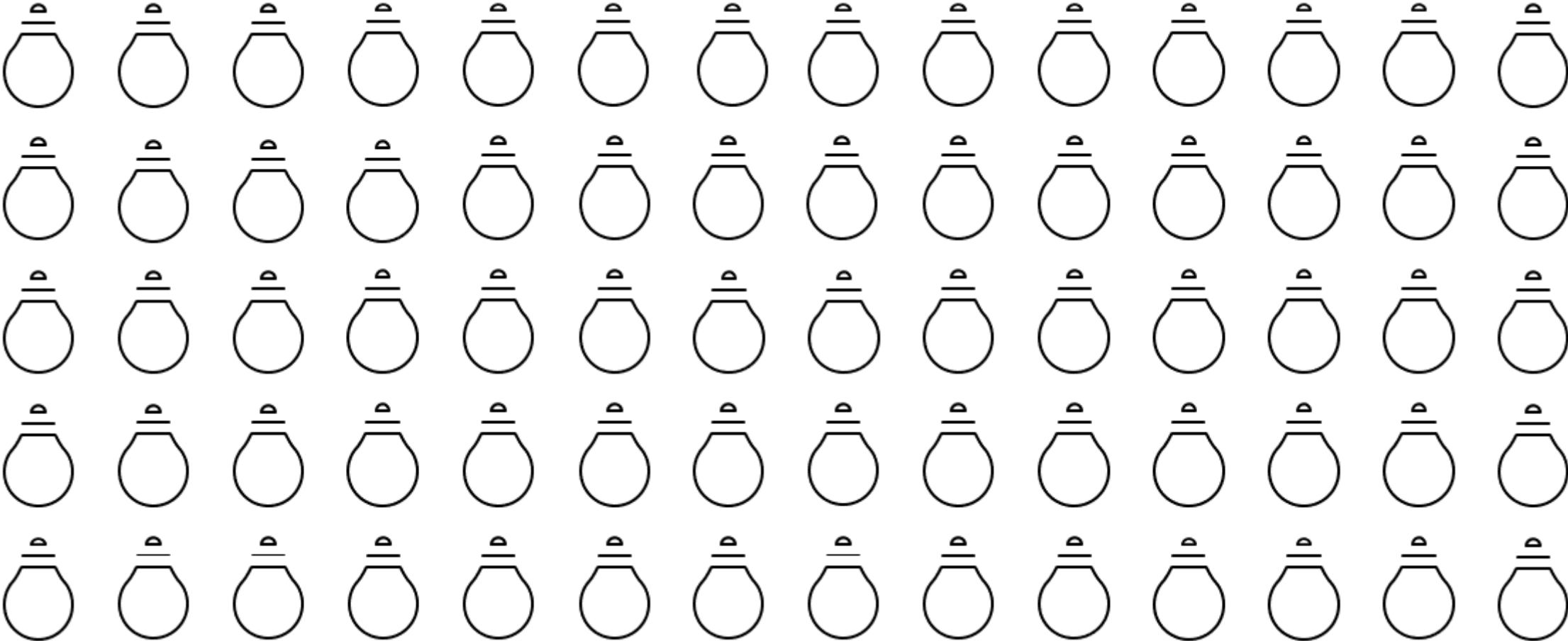
- Nätverkbaserad standard för belysningskontroll - IEC 62386
 - Dimbar
 - Gruppstyrning
 - Scener
 - Simpel kabeldragning
 - Diagnostik

DiiA: Digital Illumination Interface Alliance

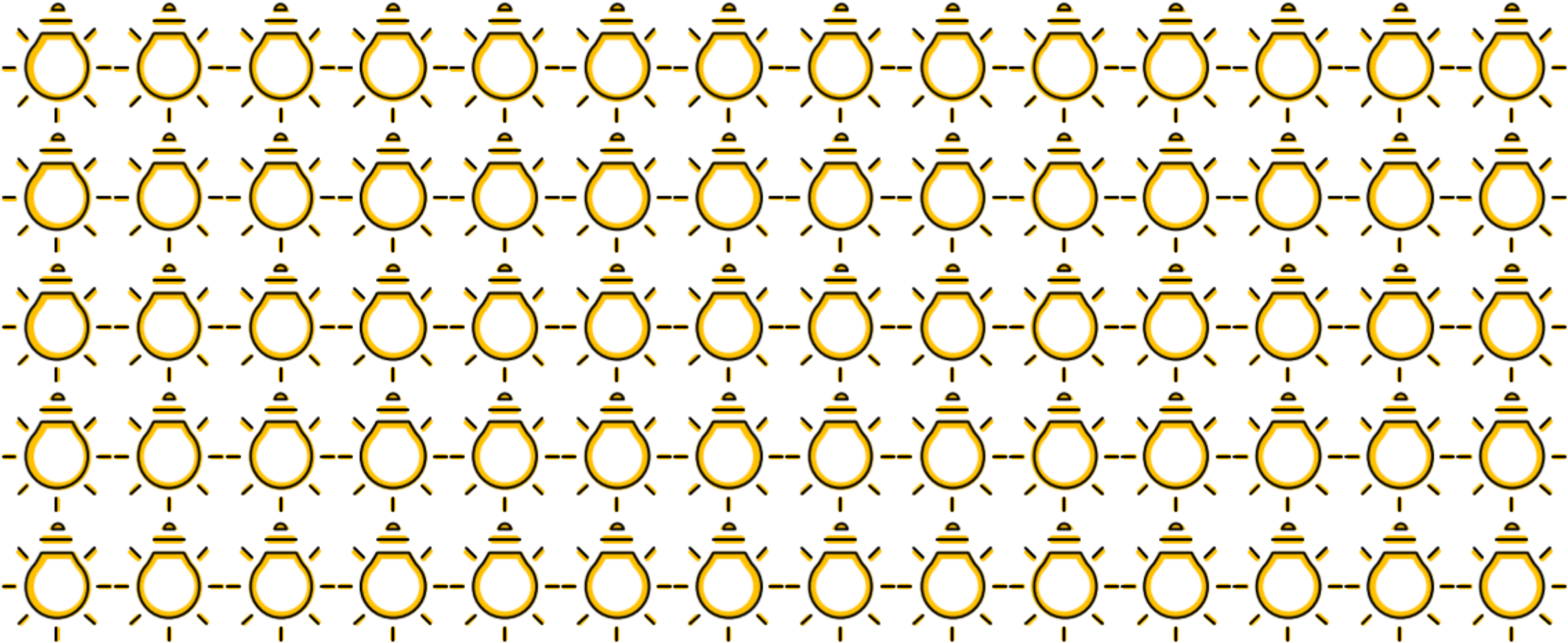
DALI funktioner: Intelligent Ijusstyrning



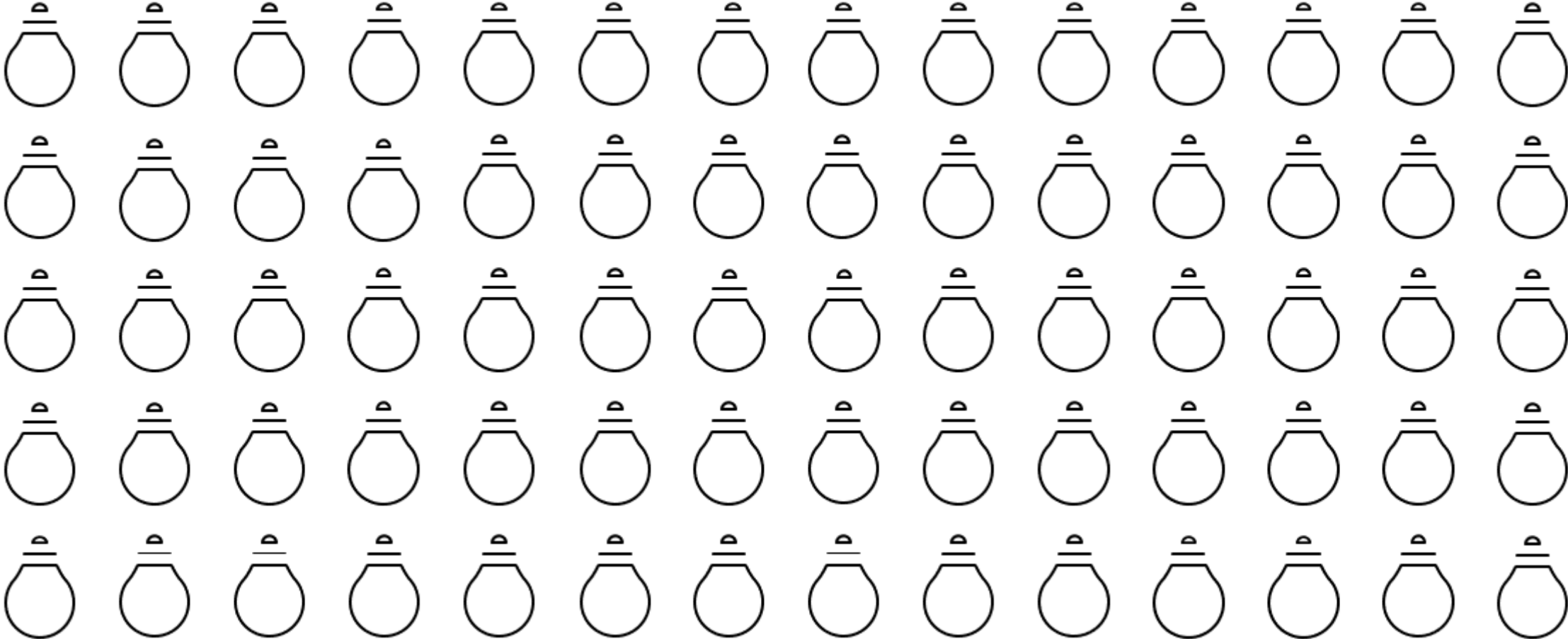
DALI funktioner: Slå PÅ



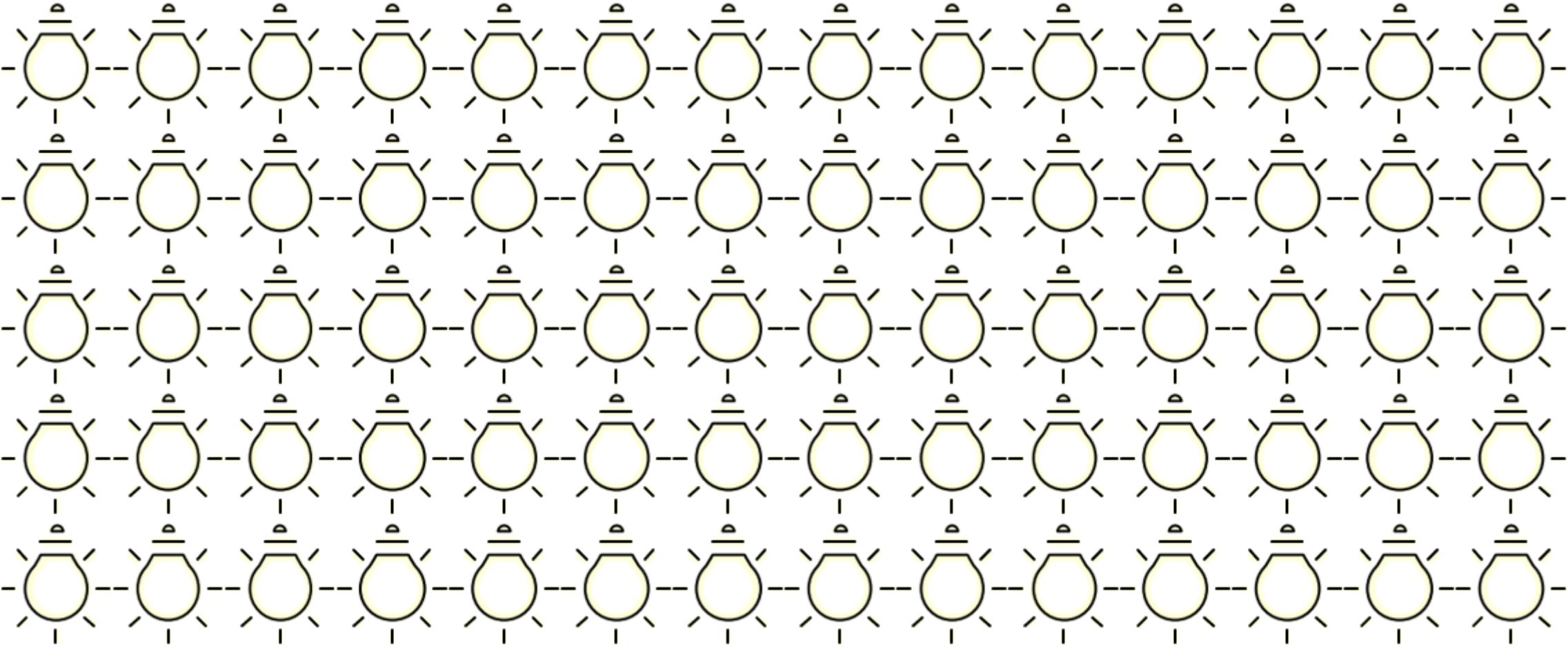
DALI funktioner: Slå PÅ



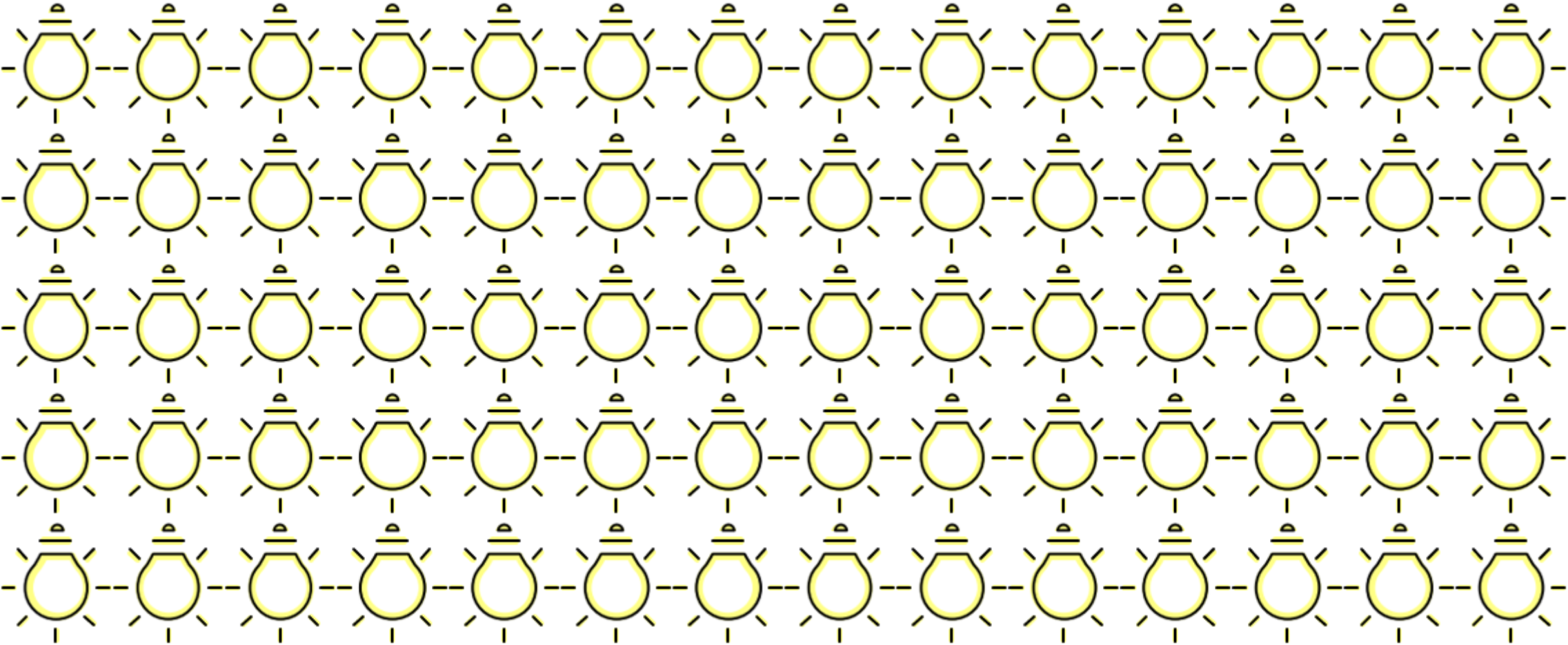
DALI funktioner: Dimra



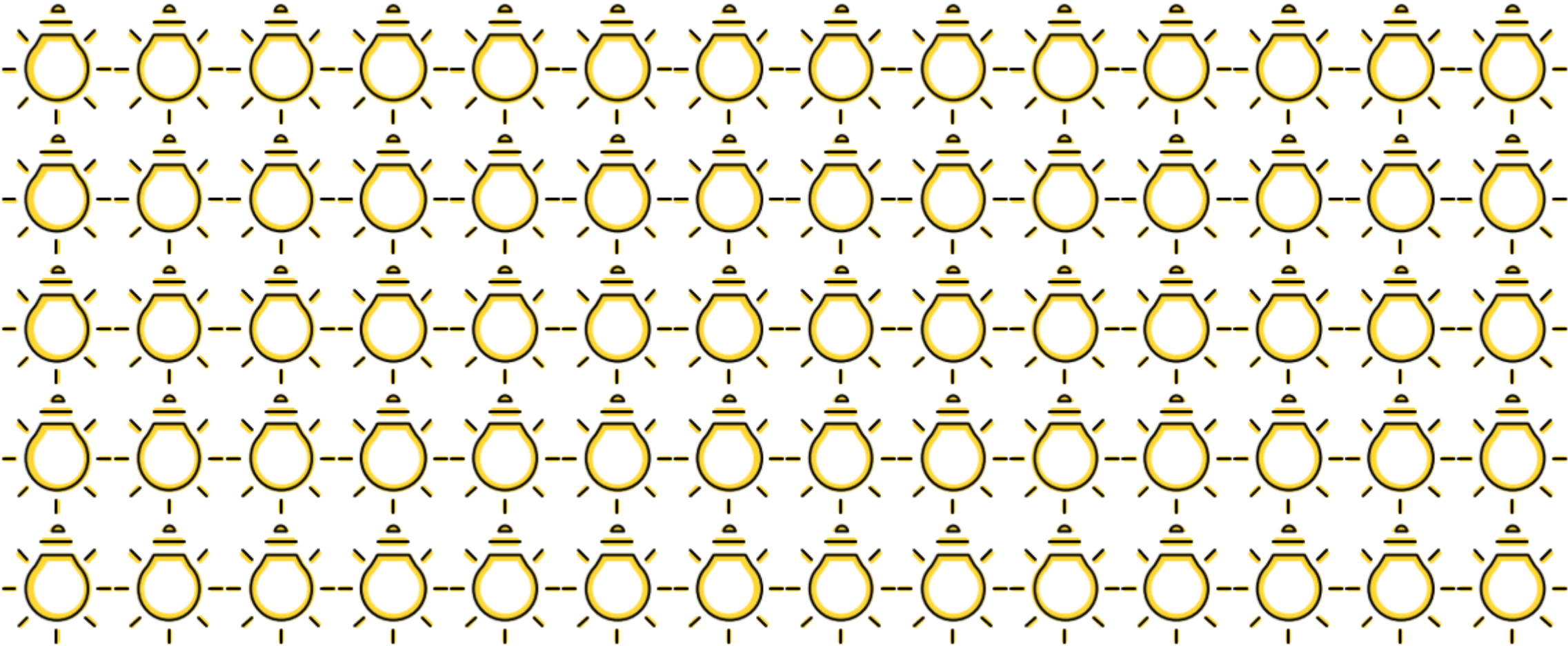
DALI funktioner: Dimra



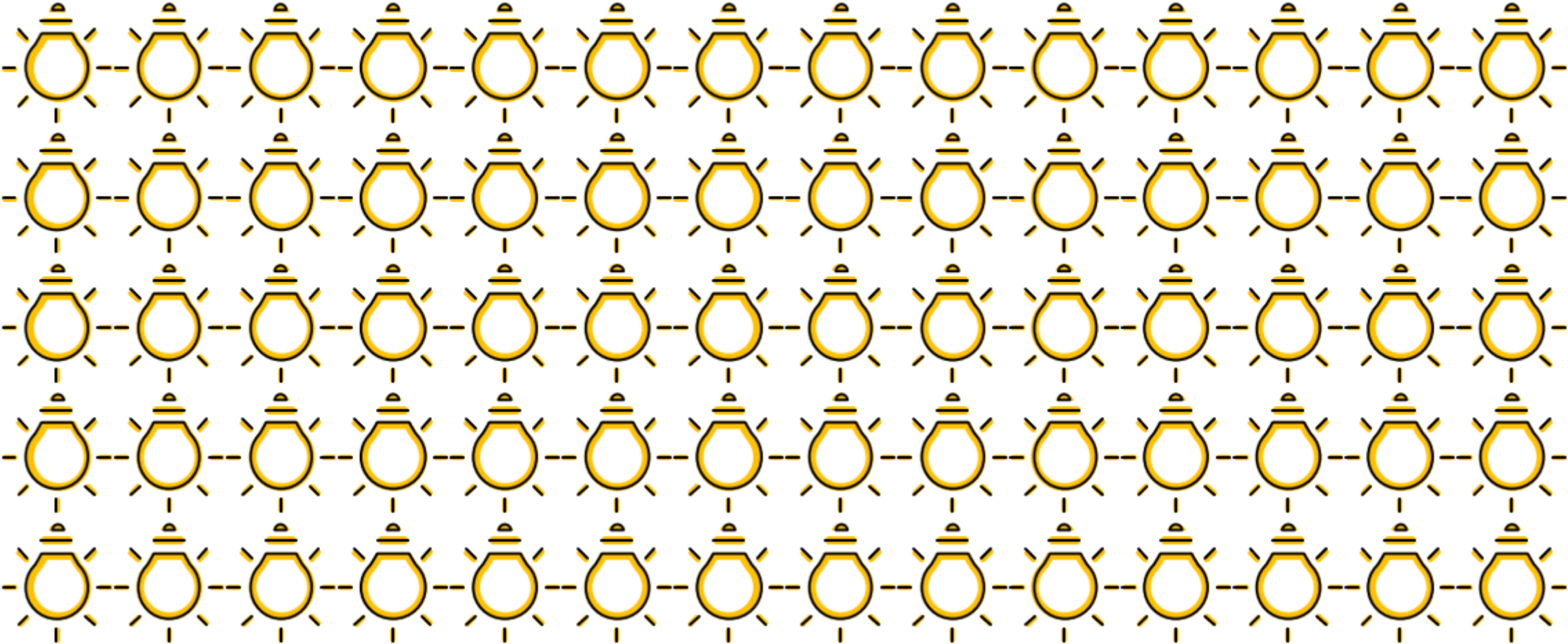
DALI funktioner: Dimra



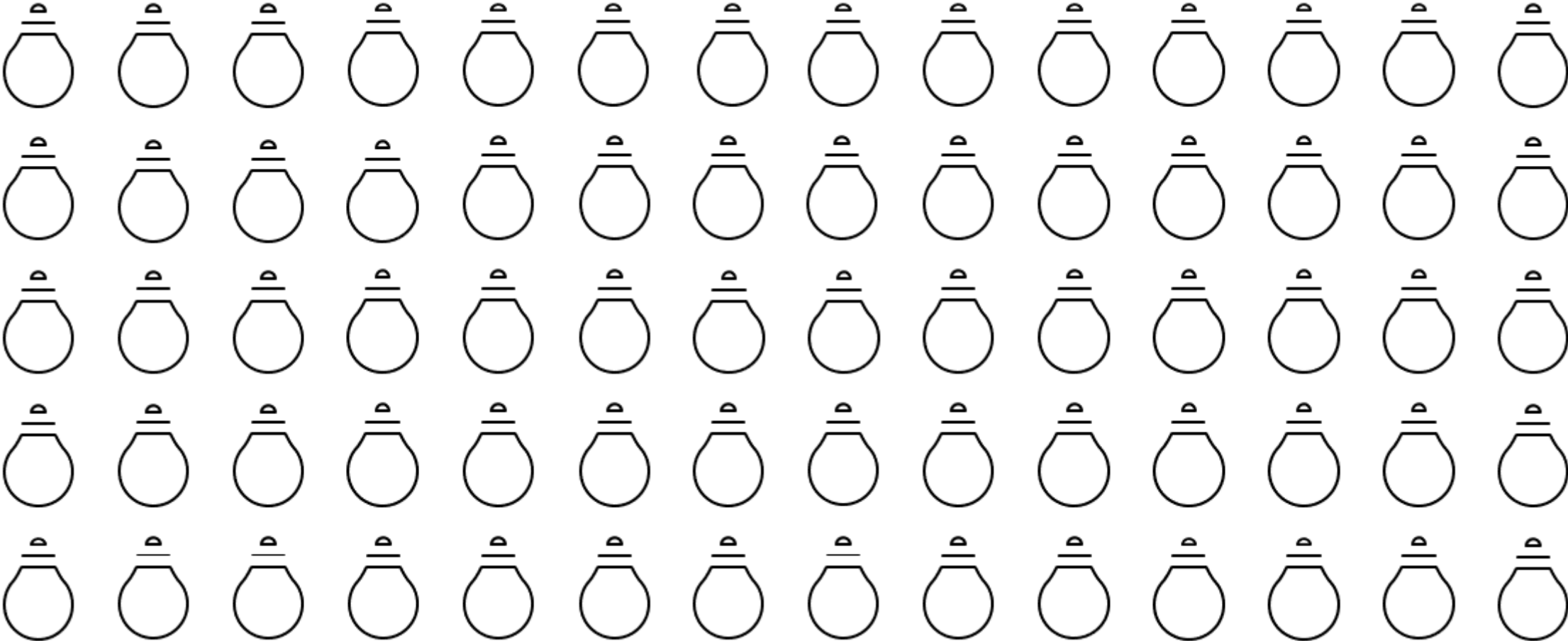
DALI funktioner: Dimra



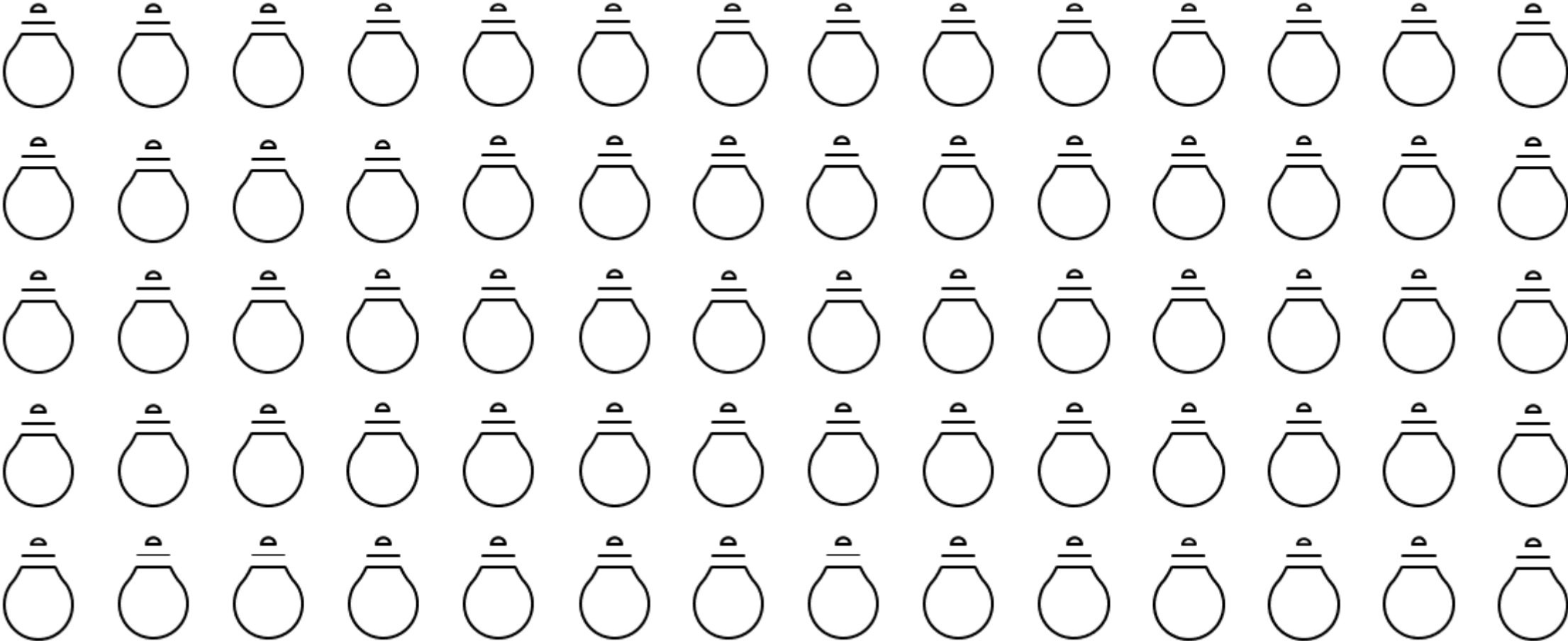
DALI funktioner: Dimra



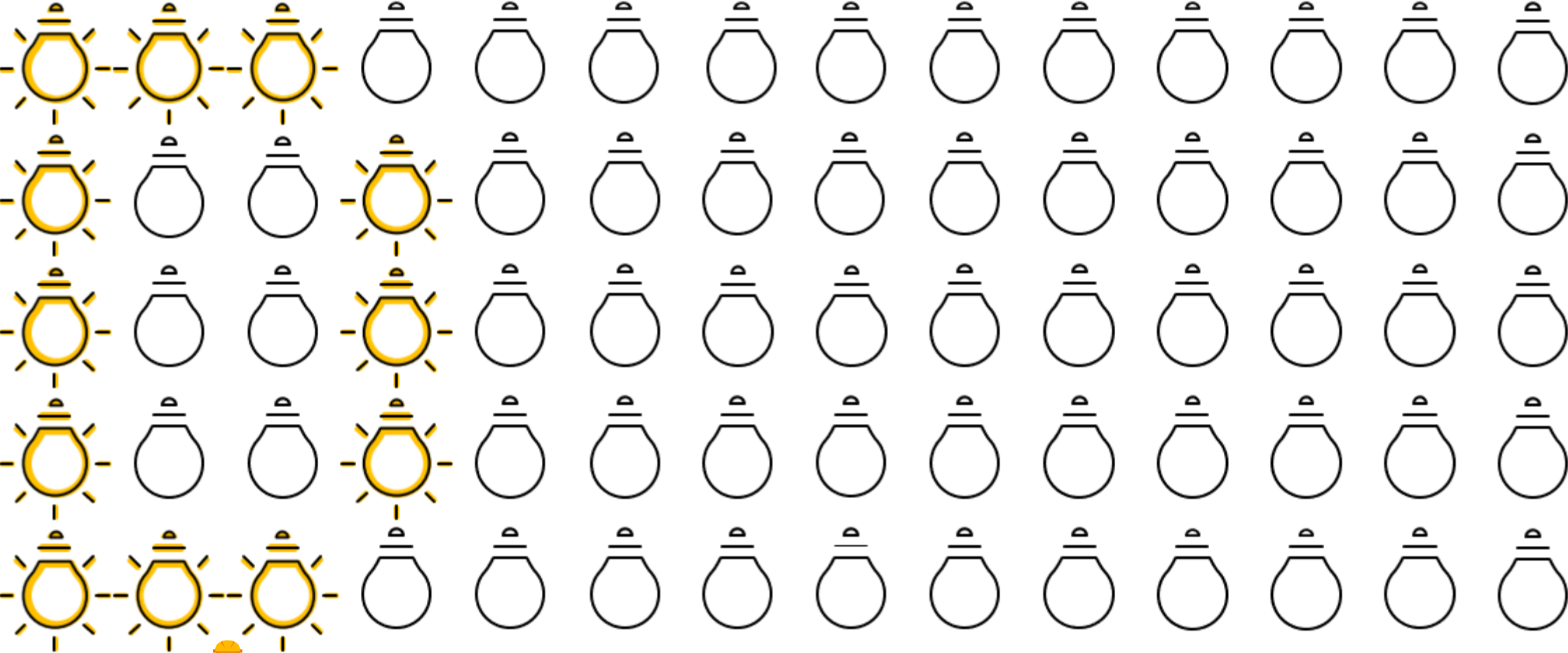
DALI funktioner: Gruppstyrning



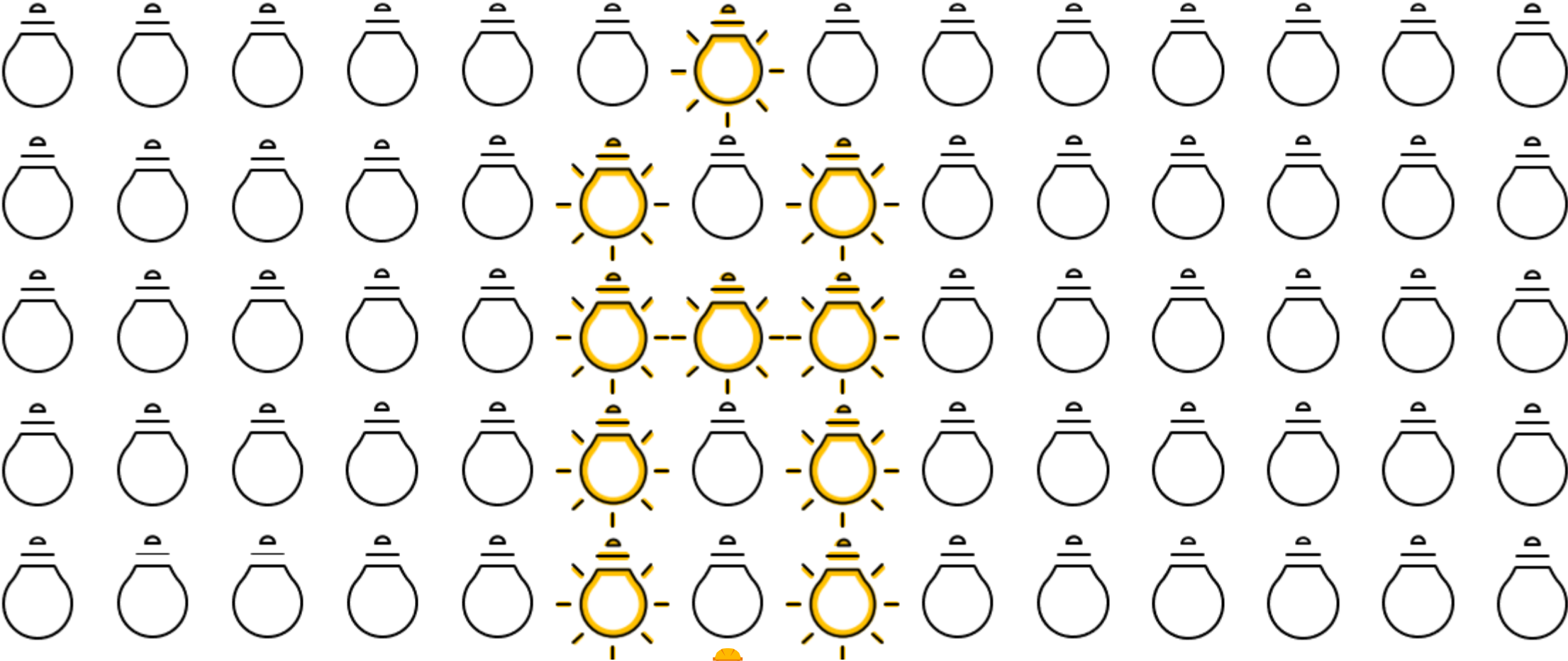
DALI funktioner: Gruppstyrning



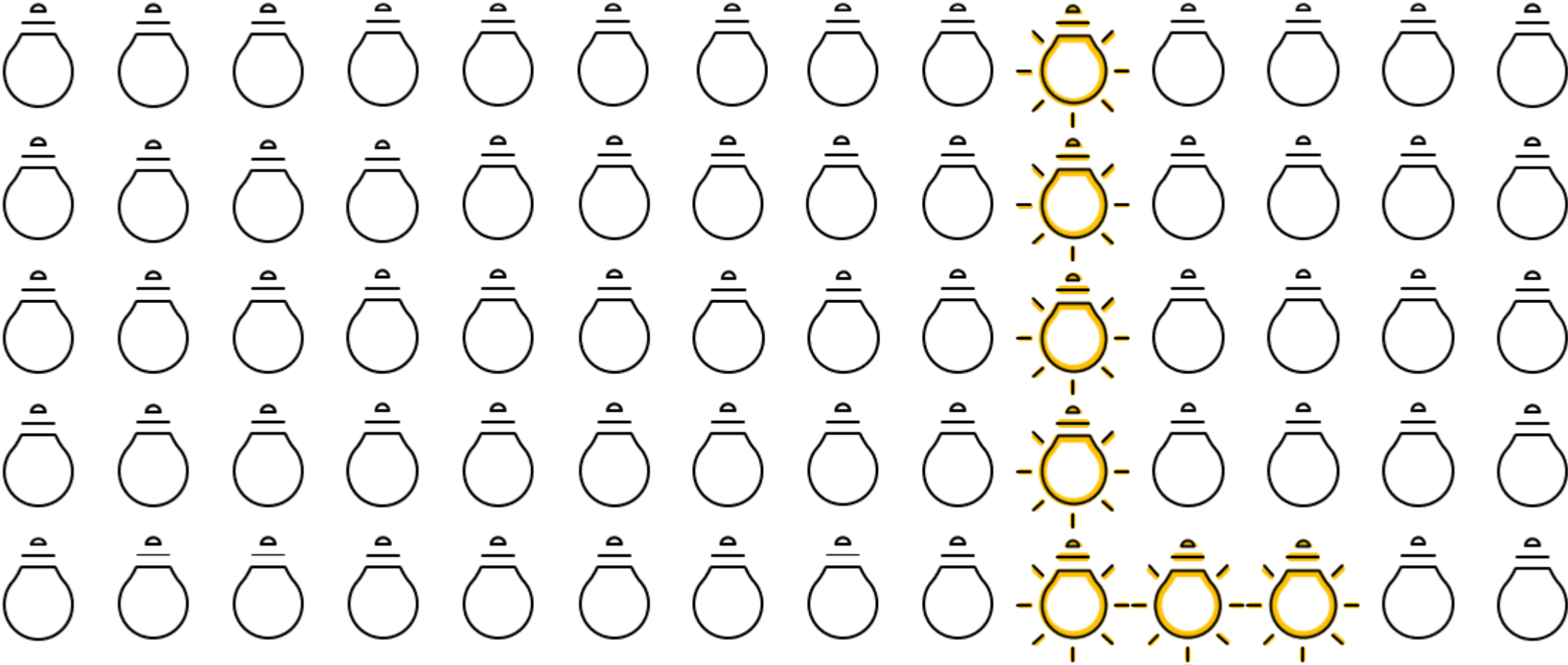
DALI funktioner: Gruppstyrning



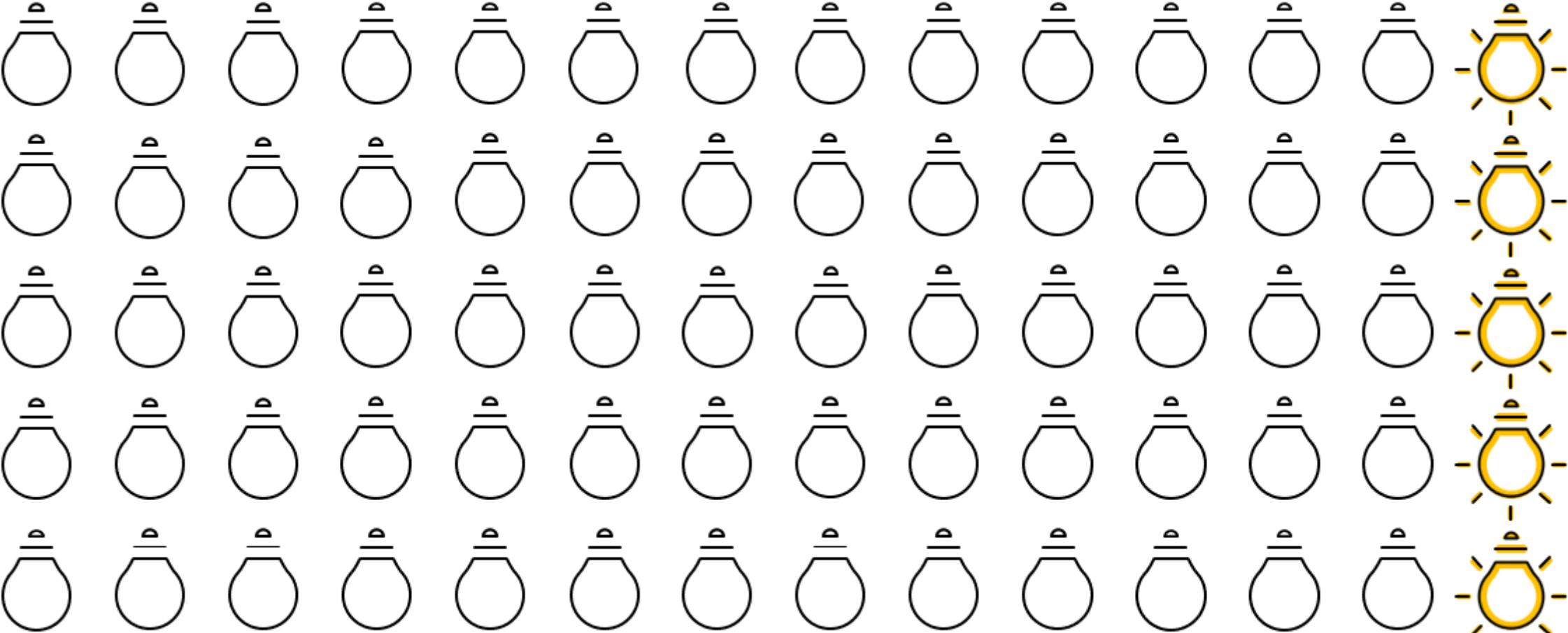
DAI funktioner: Gruppstyrning



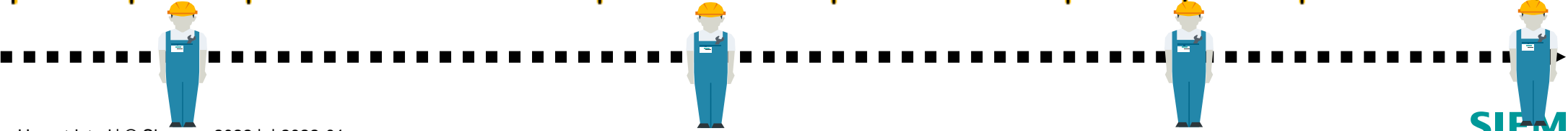
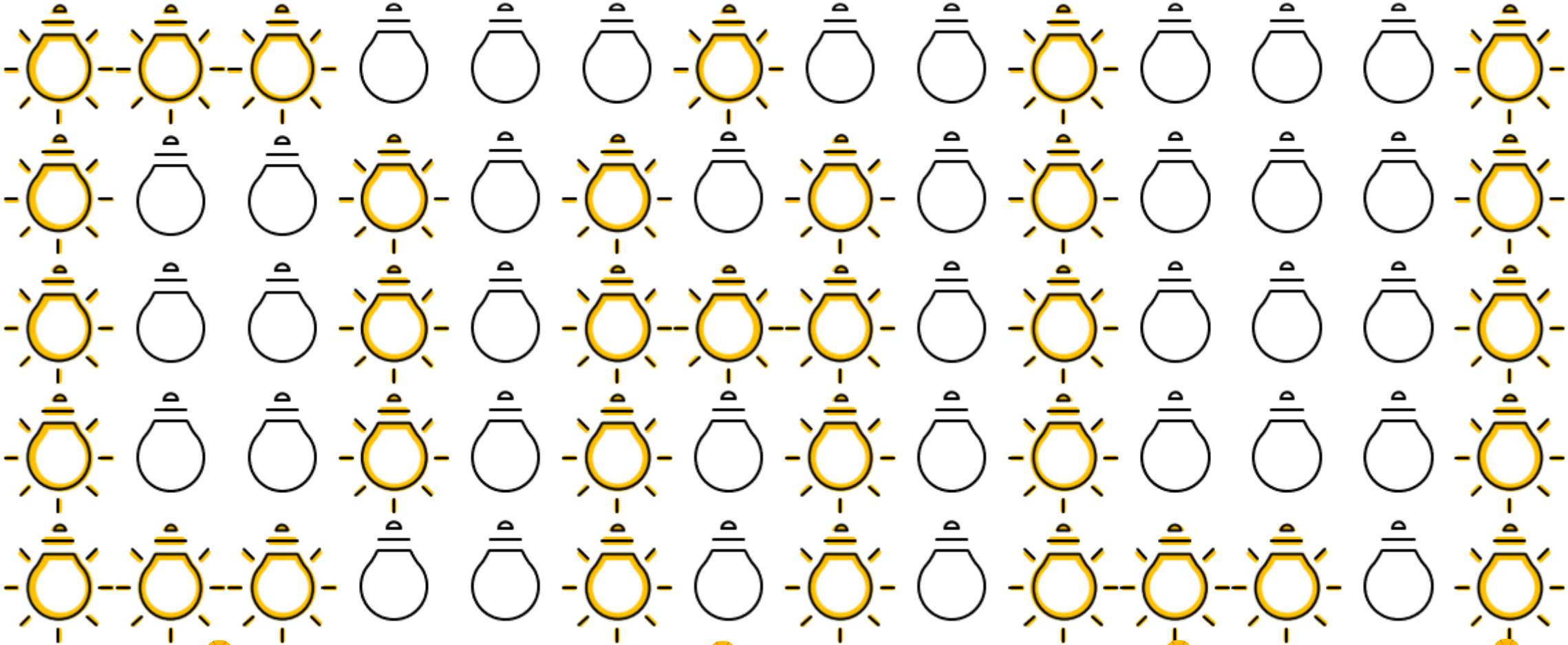
DALI funktioner: Gruppstyrning



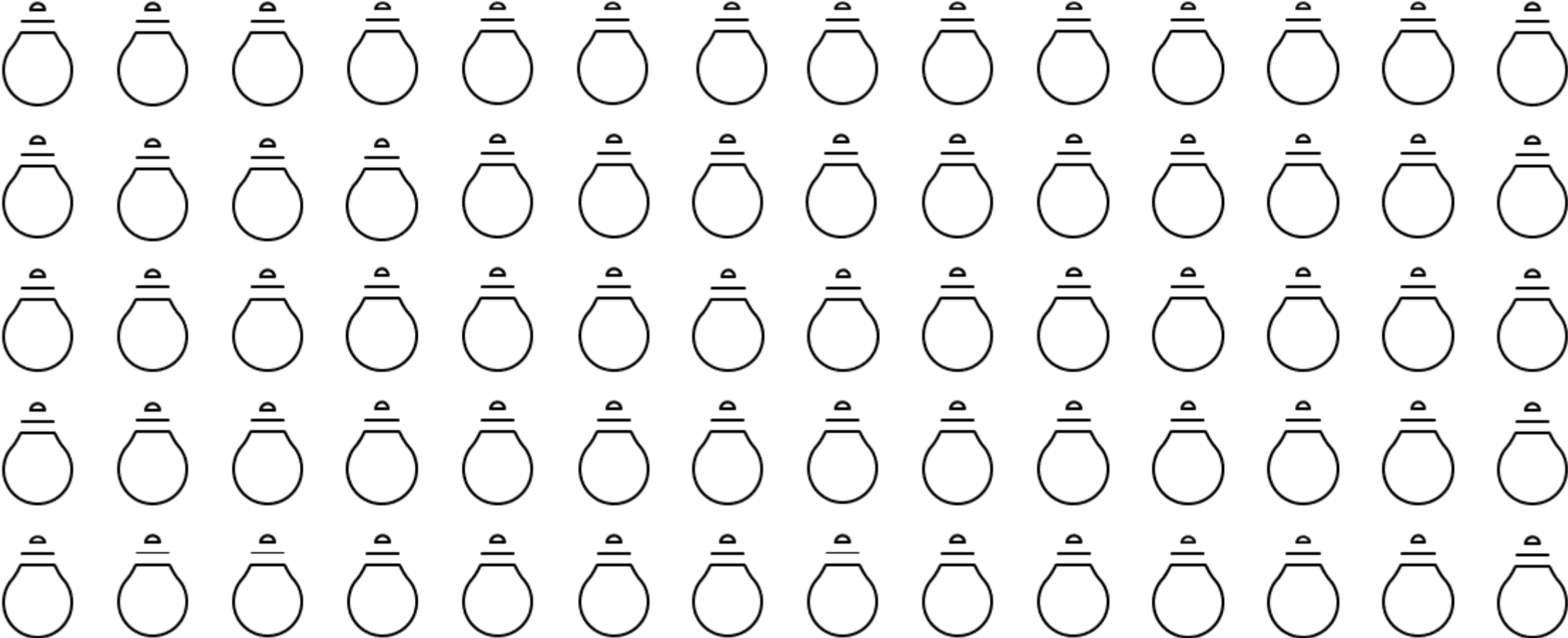
DAI funktioner: Gruppstyrning



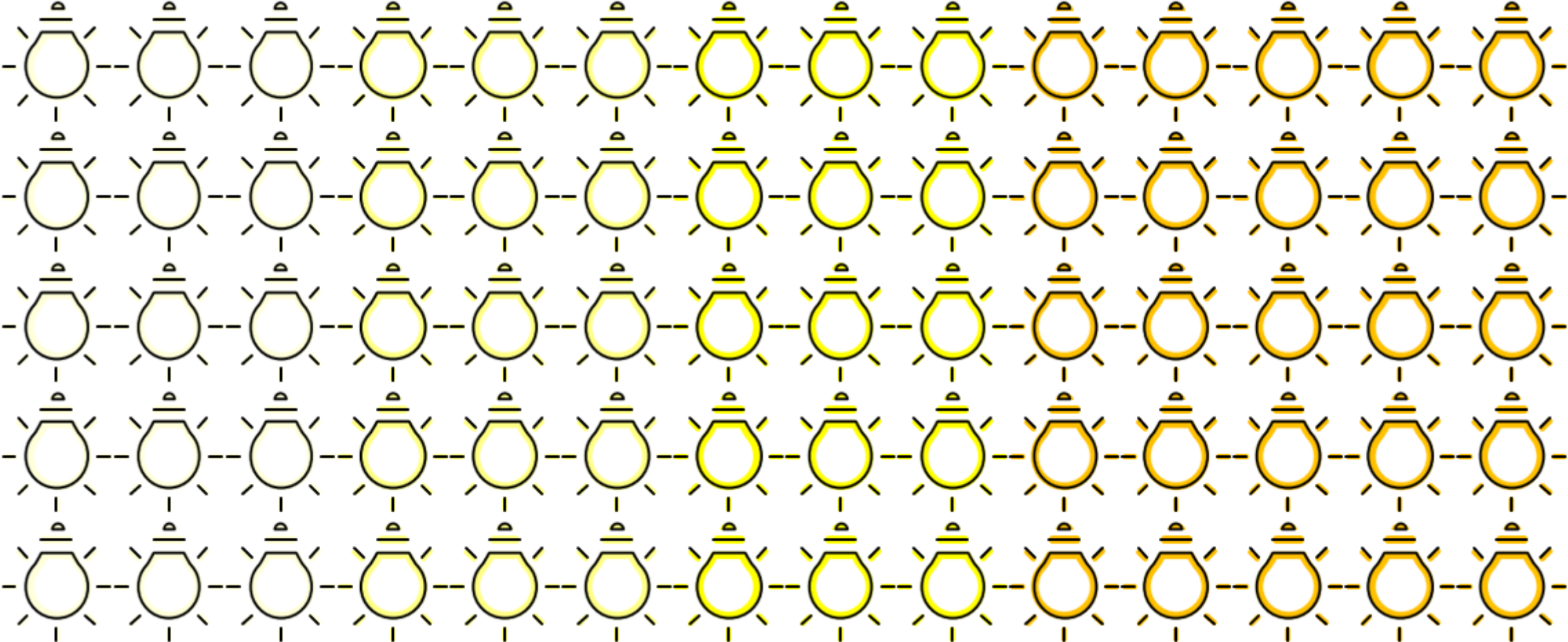
DAI funktioner: Gruppstyrning



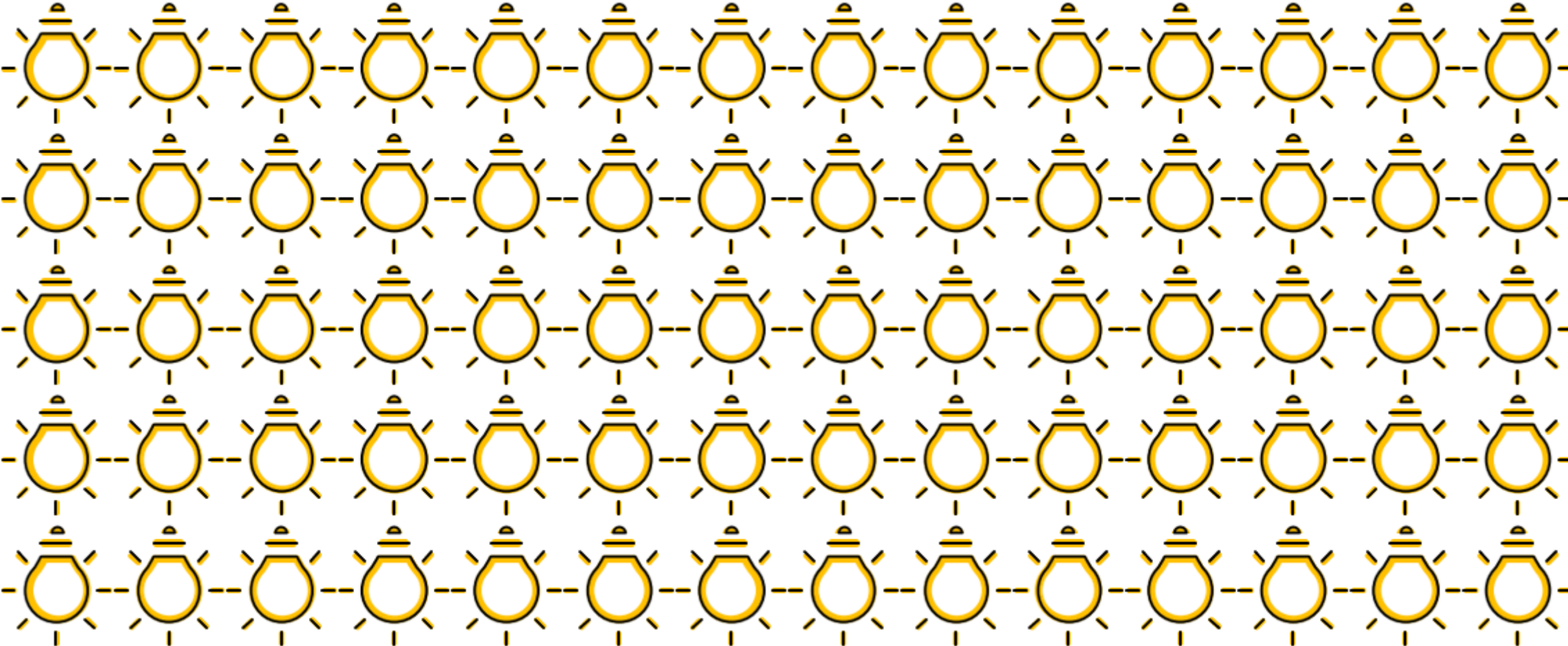
DALI funktioner: Scener



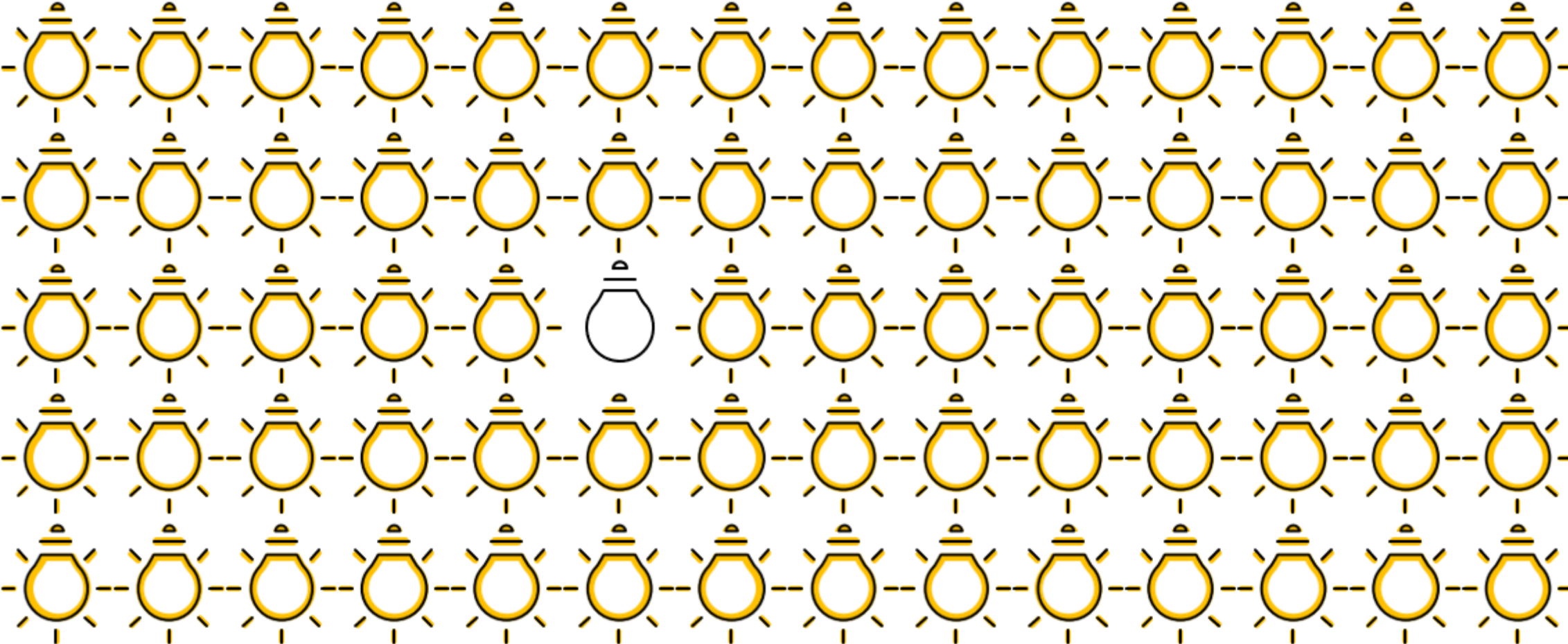
DAI funktioner: Scener



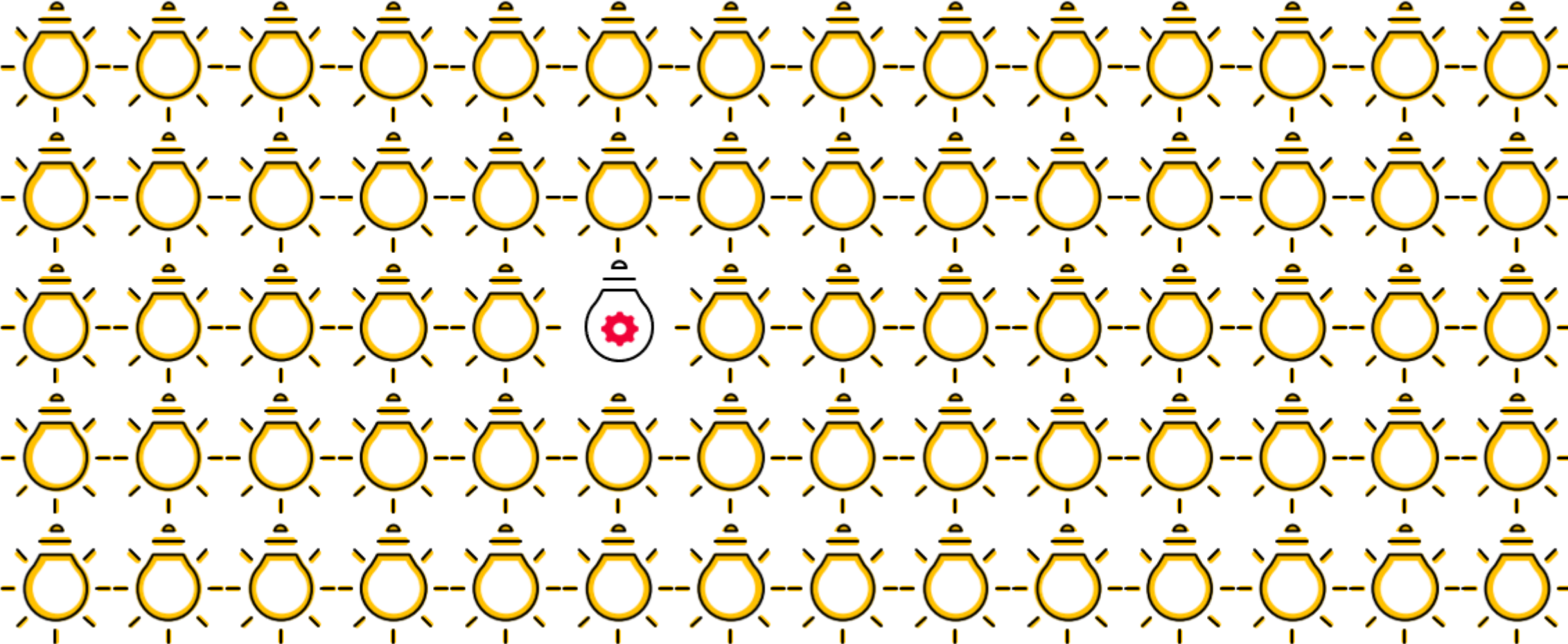
DAI funktioner: Diagnostik



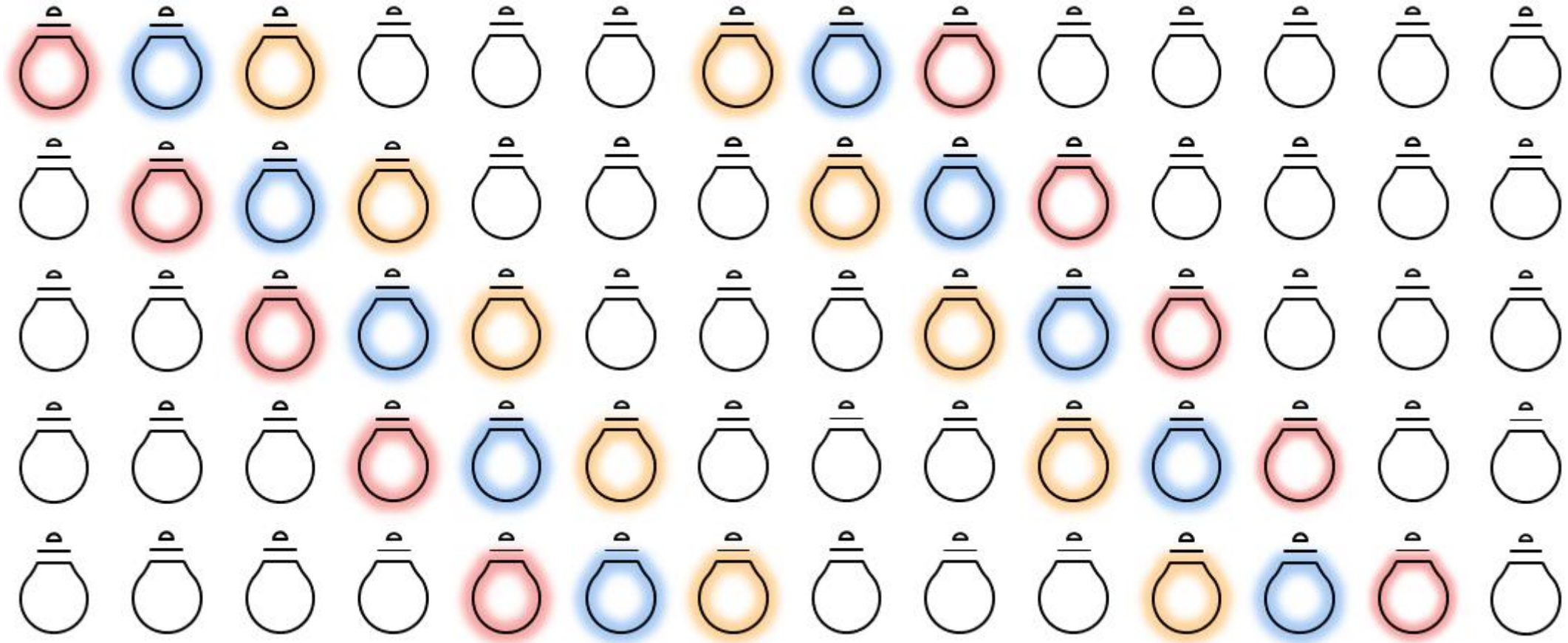
DALI funktioner: Diagnostik



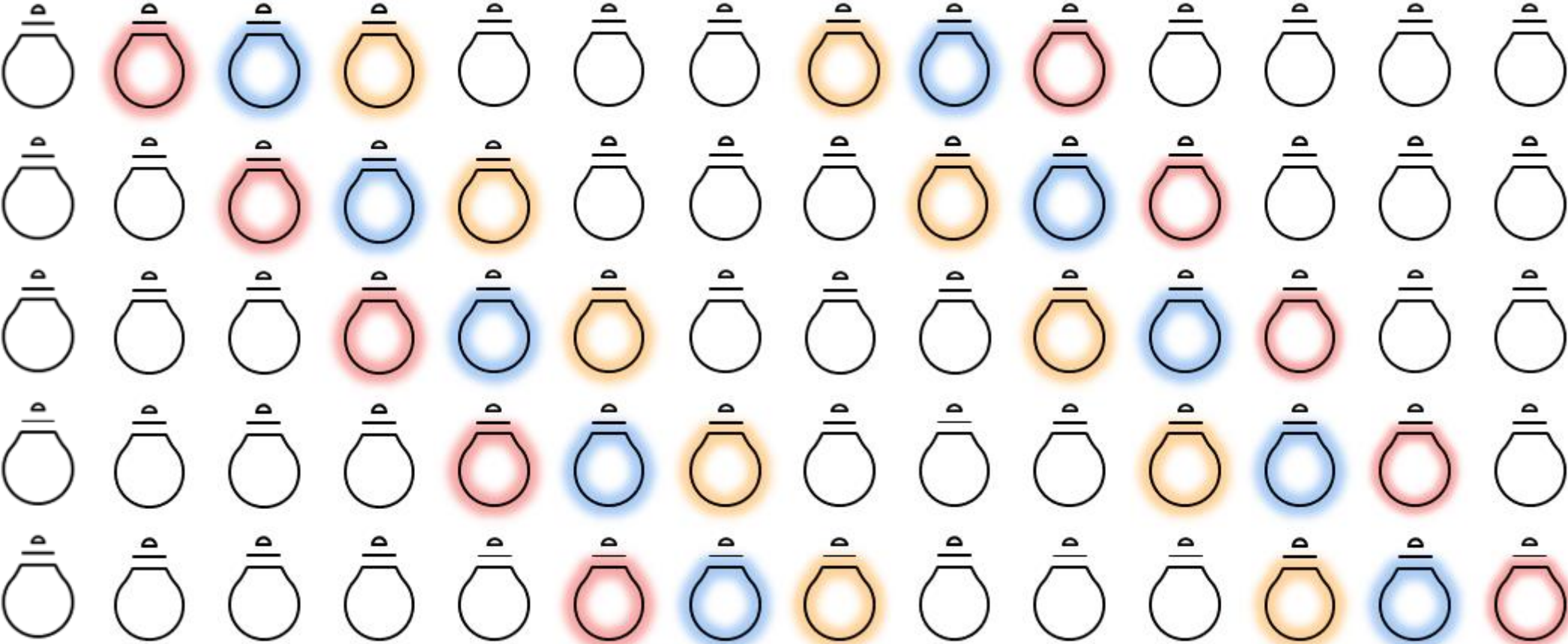
DAI funktioner: Diagnostik



DALI funktioner: Övriga funktioner



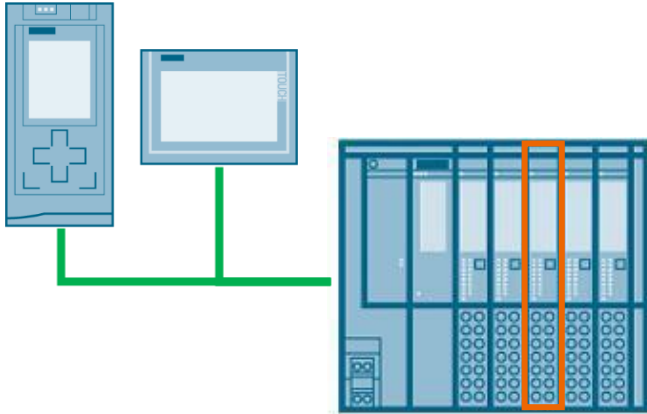
DALI funktioner: Övriga funktioner



Grundläggande information

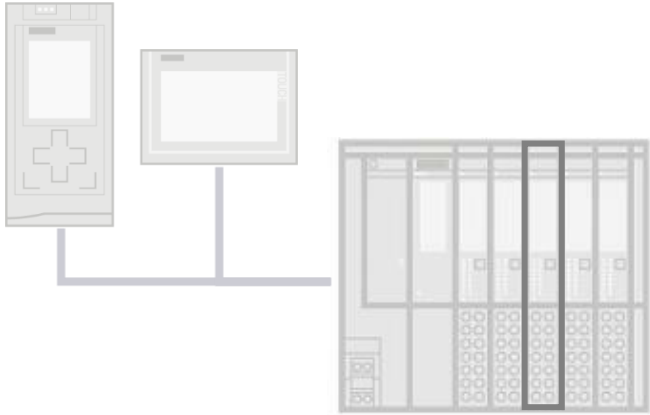
DALI-nätverk ET200SP | överblick

Grundläggande information DALI-nätverk ET200SP | överblick



SIMATIC kontrollsystem, HMI, applikationskontroller

Grundläggande information DALI-nätverk ET200SP | överblick

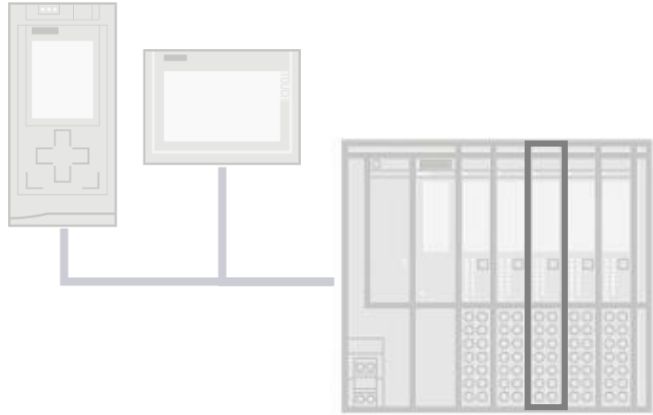


SIMATIC kontrollsystem, HMI, applikationskontroller

DALI-givare

Grundläggande information

DALI-nätverk ET200SP | överblick



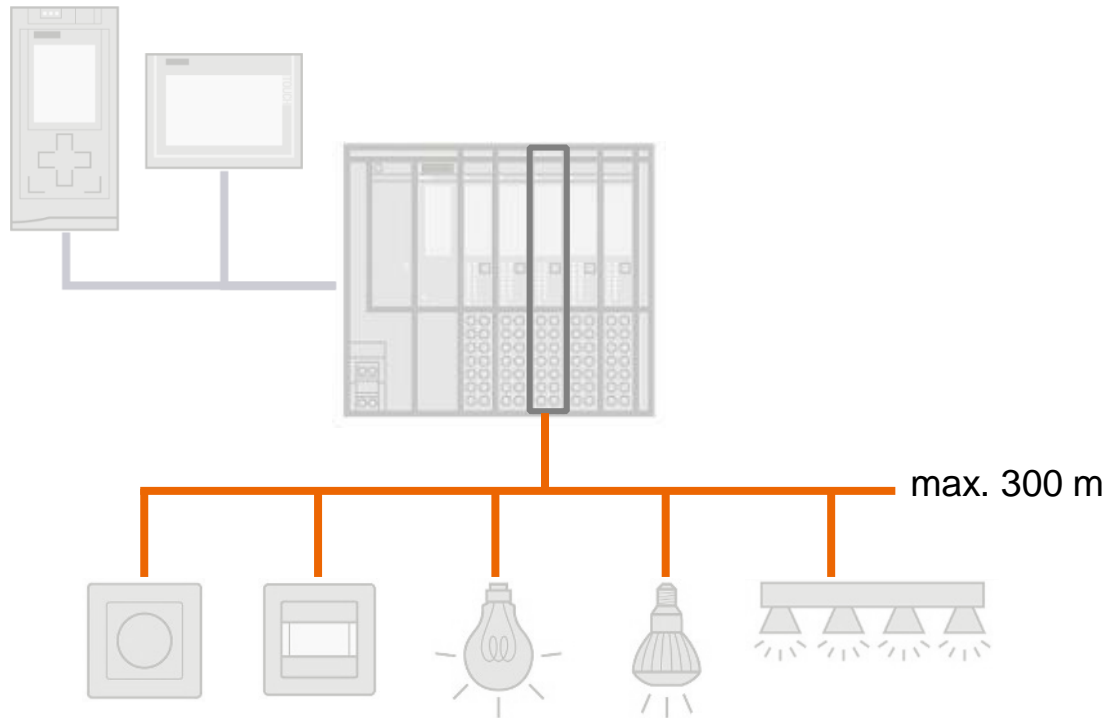
SIMATIC kontrollsystem, HMI, applikationskontroller

DALI-givare

DALI-armatur / drivdon



Grundläggande information DALI-nätverk ET200SP | överblick



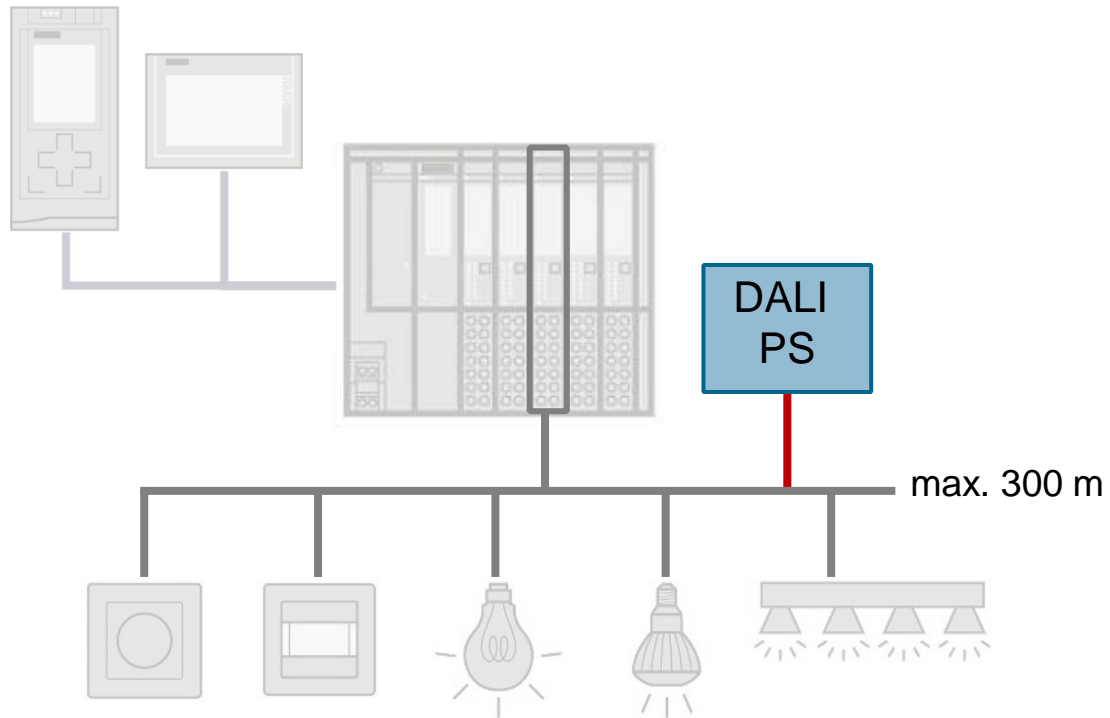
SIMATIC kontrollsystem, HMI, applikationskontroller

DALI-givare

DALI-armatur / drivdon

DALI-buss

Grundläggande information DALI-nätverk ET200SP | överblick



SIMATIC kontrollsystem, HMI, applikationskontroller

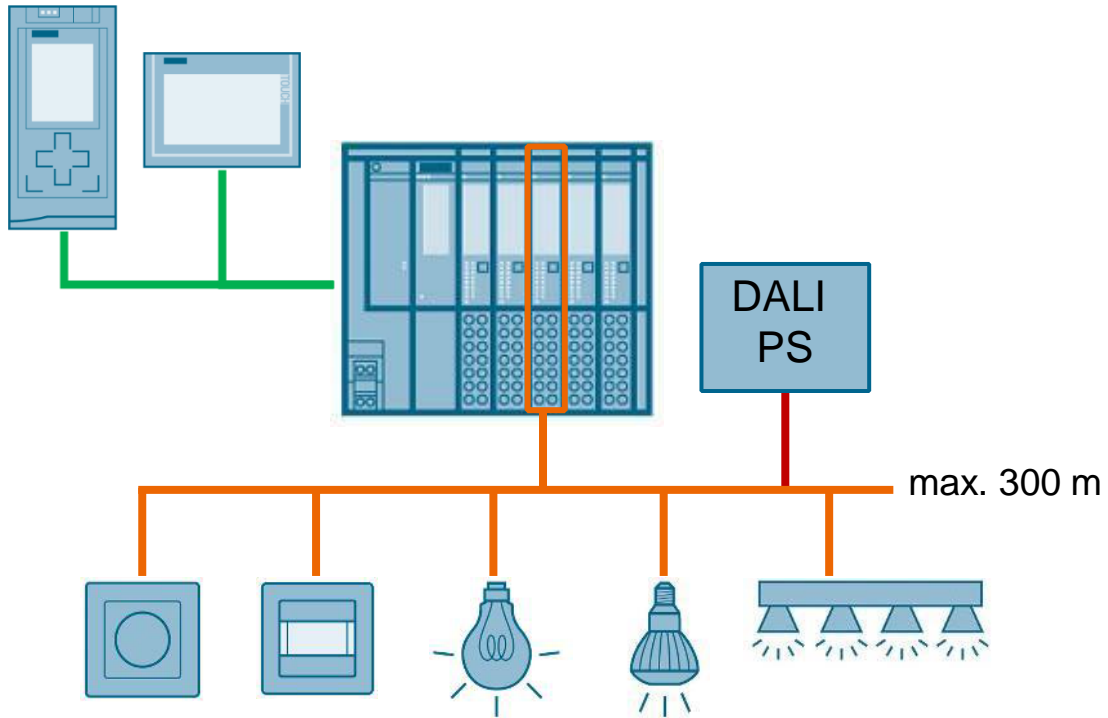
DALI-givare

DALI-armatur / drivdon

DALI-buss

DALI-nättaggregat (tillval)

Grundläggande information DALI-nätverk ET200SP | överblick



max. 63 DALI-armatur / drivdon / max. 64 input devices

SIMATIC kontrollsystem, HMI, applikationskontroller

DALI-givare

DALI-armatur / drivdon

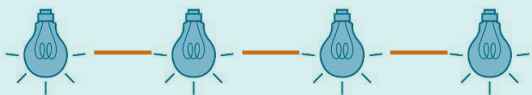
DALI-buss

DALI-nättaggregat (tillval)

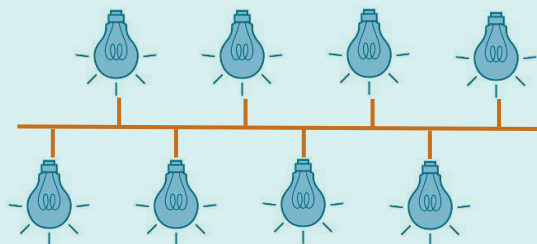
Grundläggande information

Topologi

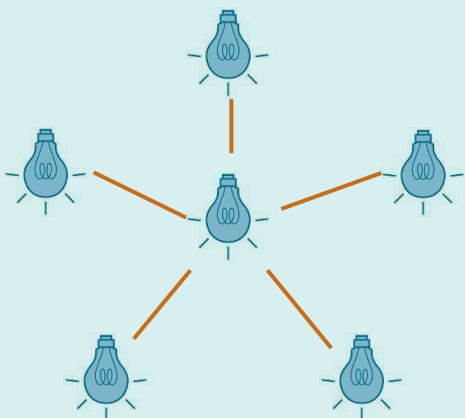
serie



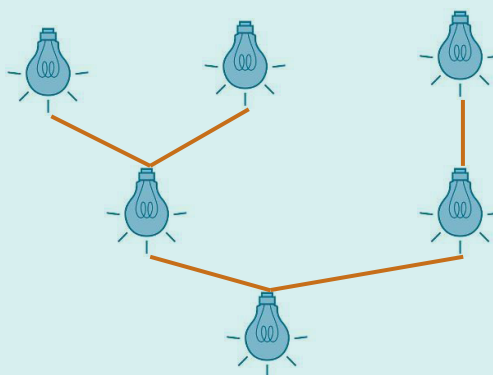
buss



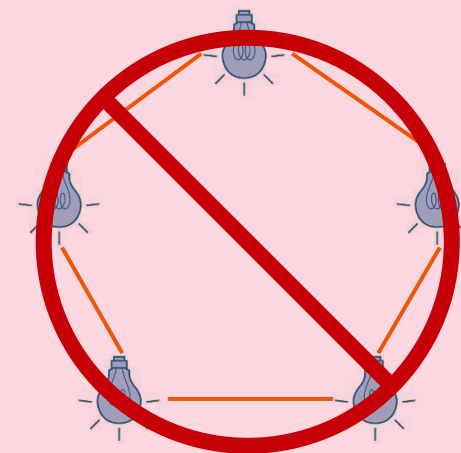
stjärna



träd



ring



Grundläggande information DALI funktioner



Installation

- Simpel kabeldragning
2-trådig | Kortslutningsskyddad
- Upp till 300 m busslängd
- Varierad topologi: stjärna, serie, träd
- Olika hårdvarutyper, tex. LED-lampor, halogenlampor, knappar, rörelse-
dektorer, ...



Användning

- 64 DALI-enheter / Dali mastermodul
- 16 grupper
- 16 scener
- Kontrollkommandon, tex:
 - ✓ Ljusare, mörkare, dimningsvärde x%
 - ✓ Gruppstyrning
 - ✓ Aktivera scen
 - ✓ Diagnostisera; lampstatus, lampfel
- Tvåvägs kommunikation



Underhåll

- Lamp parameter
- Drifttidsräknare - brinntid
- Prestandamätning

| DALI+ET200SP

Användningsområden inom SIMATIC

DALI+ET200SP

Utnyttja DALI med ET200SP

Vägled operatören

Maskinstyrd belysning för att underlätta arbetet i dess närhet

Optimerad belysning för infrastruktur

Reglering av ljusintensitet beroende på väderlek och tid på dygnet

Intralogistik

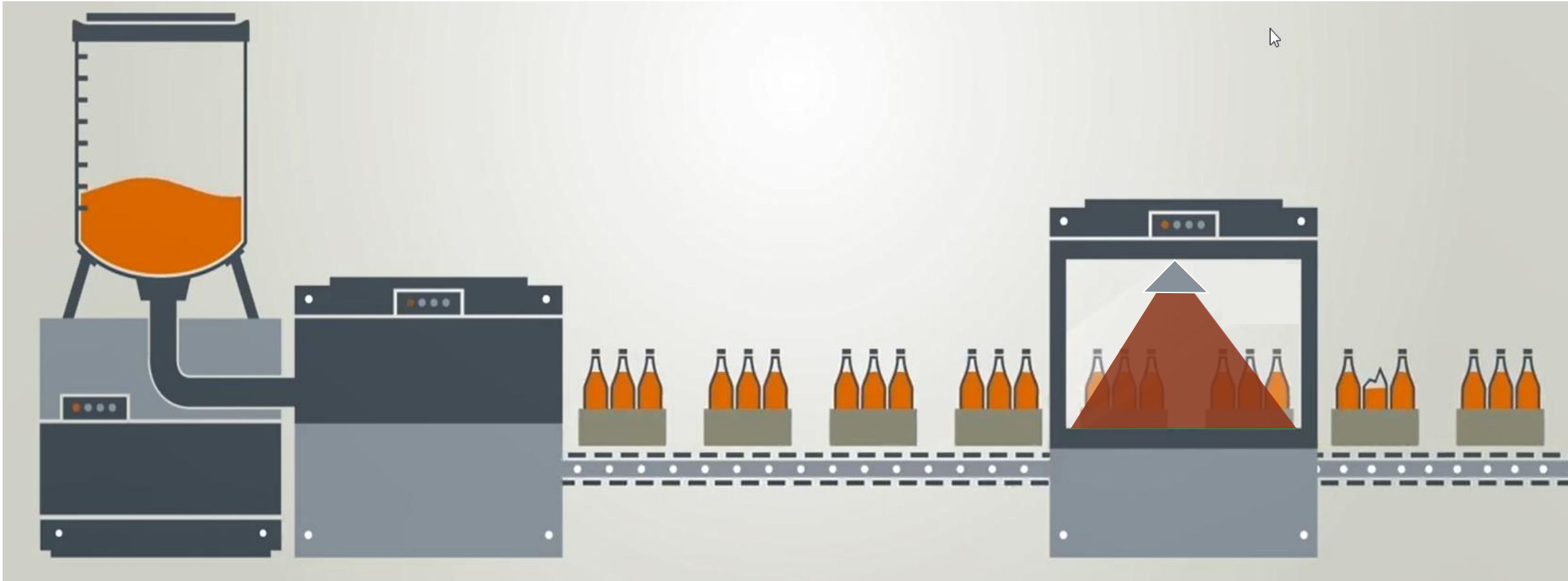
Höglagerstyrd belysning



DALI+ET200SP

Vägled operatören m.h.a belysning

- Integrera DALI-armatur till befintlig maskinportfölj

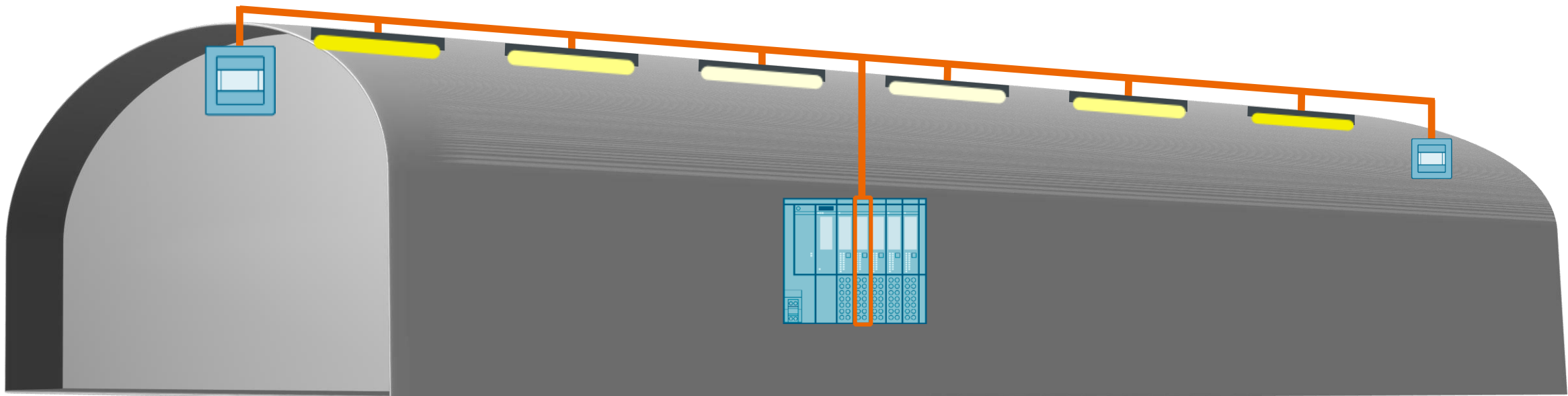


DALI+ET200SP

Belysning i tunnel



- Tid på dagen / ljusberoende dimmning
- Automatisk ljustering av hela ljussystemet
- Kontrollera enskilda lampor utifrån händelse, någon bryter nödutgångs -> vägled/larma med ljus
- Byt lampor utifrån statiskt brinntid och inte på rullande schema
- Spegla dagljuset -



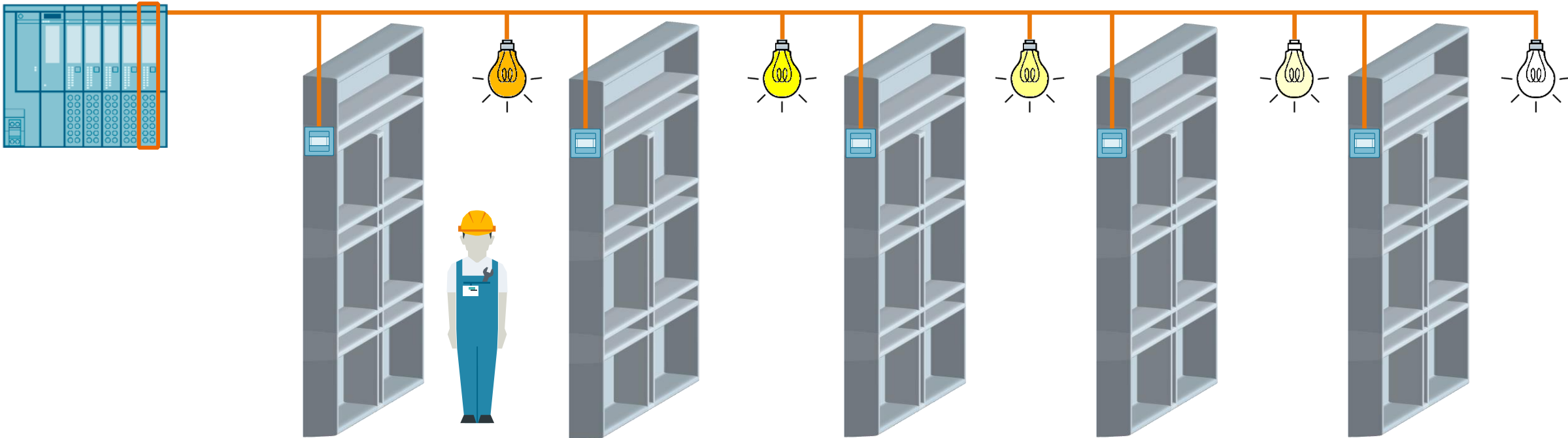
DALI+ET200SP

Logistikcenters

- Belysning endast om personal är närvarande
- Dimra övrig belysning
- Rörelsedektorer för att automatisera belysning

Fördelar:

- Kostnadsbesparing (elektricitet)
- Rätt belysning för personal
- Ett genomtänkt belysningsystem



| CM 1xDALI

Den perfekta lösningen för industriell belysningsapplikation

CM 1xDALI Technical data



- ET 200SP elektronikmodul
- Endast 20 mm bred, U0 basplatta
- For 1 DALI line up to 64 luminaires and 63 sensors
- Integrated power supply 160 mA
- Overvoltage category II, as installation typically with a 5-core cable for mains and DALI
- CM 1xDALI is an interface for operating the DALI bus without integrated logic
- Logic control via PLC user program
- Artikelnummer: 6ES7 137-6CA00-0BU0

CM 1xDALI

Excellent support

Bibliotek

Applikationsexempel

Programmeringsmanual

The library runs on all S7-1500 series CPUs (CPU 15xx) and the S7-1200 series as of V4.0 (CPU 12xx). You require STEP 7 (TIA Portal) V15.1 or higher for configuration.

Installationssupport

Identification of the serial number

coming soon:
DALI basic functionalities for S7-400

coming soon:
customized library and application
example for the use with the new
multifield interface in
Modbus/TCP

CM 1xDALI

Länkar & information

Grundläggande information:

Delivery release	109769177
Manual	109769428
Library	109767048

Application examples:

Commissioning support	109771151
Reading serial number	109797848

Additional material:

Technical slides	10020140
Sales slides	10036554
ET 200SP CM 1xDALI	Video

The screenshot displays the Siemens Industry Online Support interface. At the top, there's a navigation bar with 'Intranet', 'Register', and 'Log in' links. Below this, the page title 'Industry Online Support Home' is visible. A search bar is present with the text 'Search in Online Support'. The main content area is divided into several sections: 'Searching for product information' with a search input field, 'Quick guide' with a list of links (Important topics at a glance, FAQs, Application Examples, Manual, Downloads, Compatibility Tool, Receive notifications (Newsletter), Training (SITRAIN)), and 'Our service offer' with a list of services (Digital Industry Services, Training Services, Support Services, Consulting Services, Spare Parts Services, Repair Services, Field & Maintenance Services, Retrofit & Modernization Services, Service Programs & Agreements). A central image shows the CM 1xDALI device with a QR code and technical specifications. The right sidebar contains sections for 'SIMATIC PCS', 'mySupport Cockpit' (with links to Favorites, My requests, CAX downloads, My Products / Clipboard), 'Useful functions in the Online Support (videos)', and 'Social Media' (with links to follow on Twitter, current videos from Online Support, Siemens on Facebook, and background information on "competitive industry").

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