



Presenting DALI

**Control your light easy,
versatile and digital:**

Agenda

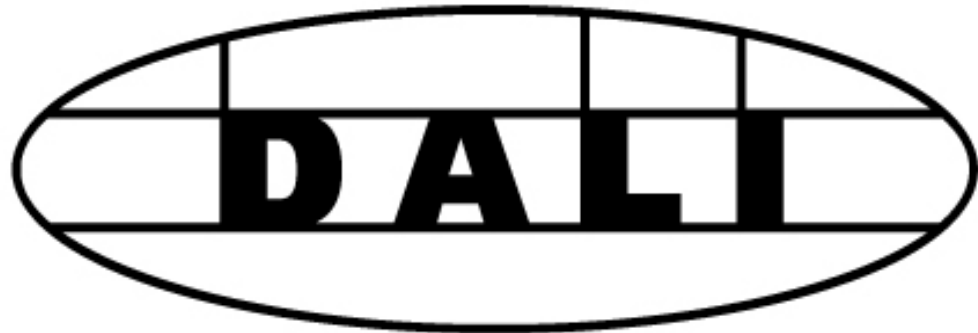
- Introduction: What is „DALI“
- Application: How to use DALI
- Features: What DALI - Systems can do
- Summary: The Key Aspects

Introduction



There is a new „language“ to talk to electronic lighting control gear:

This sign tells that the system is compatible.



- **DALI** = Digital Adressable Lighting Interface
- Standardized by IEC (EN) 60929 E4
- The Logo is registered by AG - DALI, the international supporter of this standard.

Introduction



Who is AG – DALI?

AG - DALI (www.dali-ag.org) is an **International** working group (under the legal framework of ZVEI.)

Most major european and some overseas lighting companies are member of AG – DALI.

AG – DALI Tasks:

- Worldwide promotion of DALI
- Ensuring optimal exchangability of DALI ballasts
- Support the application of DALI (Handbook etc.)

Introduction



What is DALI ?

- DALI is the New Digital Interface „Language“ for electronic ballasts (EB)
- DALI is no New Installation Bus system (no replacement for EIB etc.)
- DALI is no New Building Automation system (no replacement for LON etc.)
- DALI is the uniform and standardized method for LON, EIB and other high level systems to use advanced features of todays ballast technology.
- It is the perfect method for stand alone room controler performance
- It is the perfect setup to control a small set of intelligent luminaires

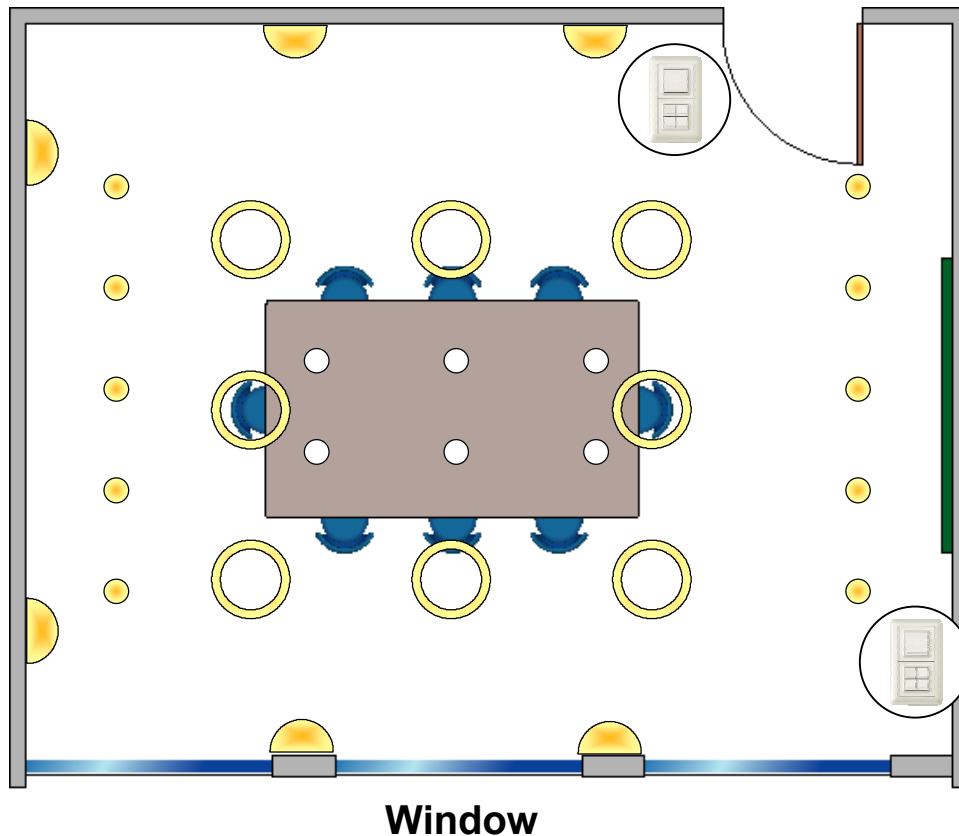




Application

Meeting Room

(Using groups and scenes, 1)



-  **Group 1:**
Halogen Downlights
-  **Group 2:**
CFL Downlights
-  **Group 3:**
CFL Uplights
-  **Group 4:**
Halogen Downlights



Application

Meeting Room

(Using groups and scenes, 2)



Scene 1:
Welcome

Application

Meeting Room

(Using groups and scenes, 3)



Scene 2:
Lecture

Application



Meeting Room, stand alone (Using groups and scenes, 4)



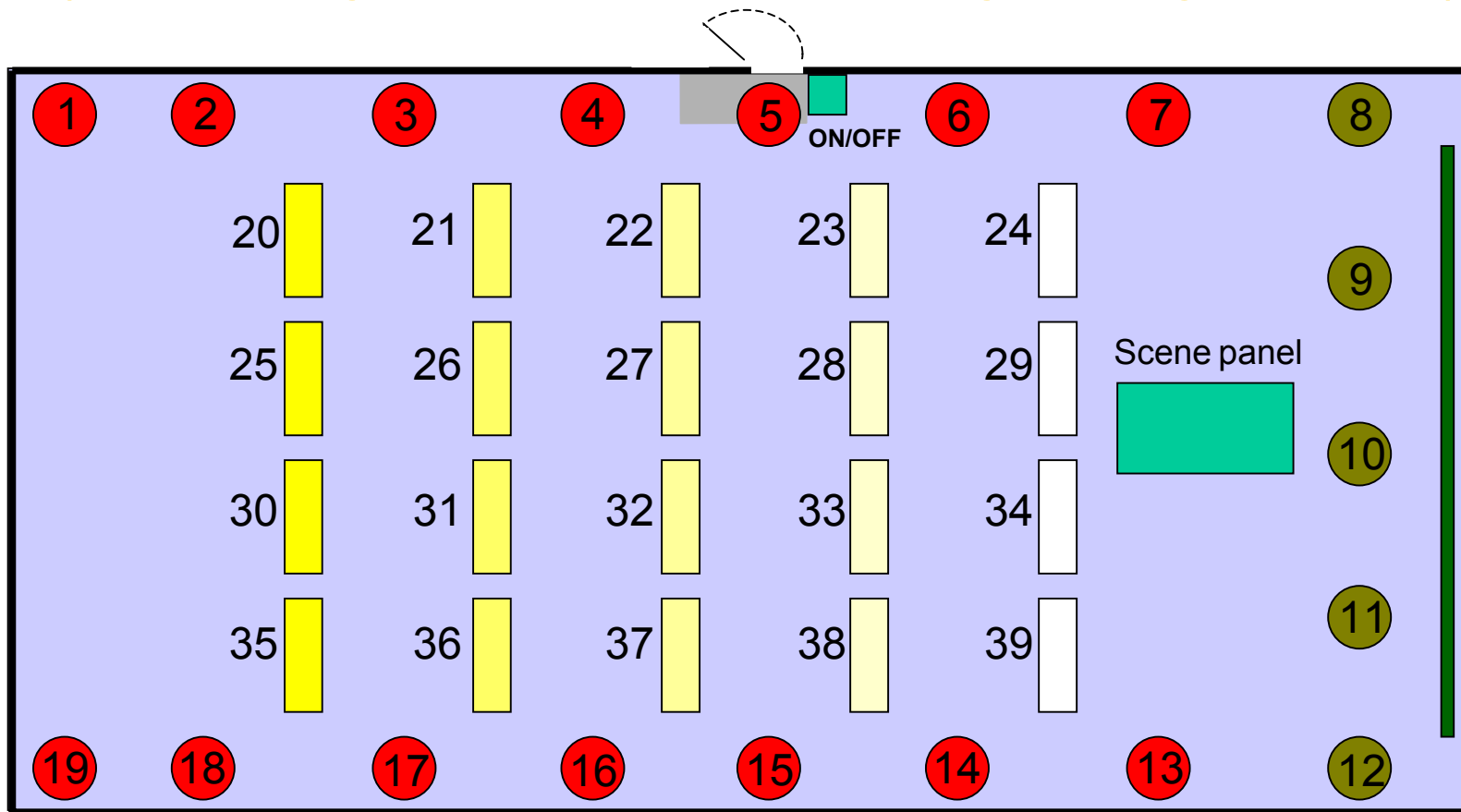
Scene 3:
Beamer



Application

Multi Purpose Room

(Addressing example, colors show grouping example)

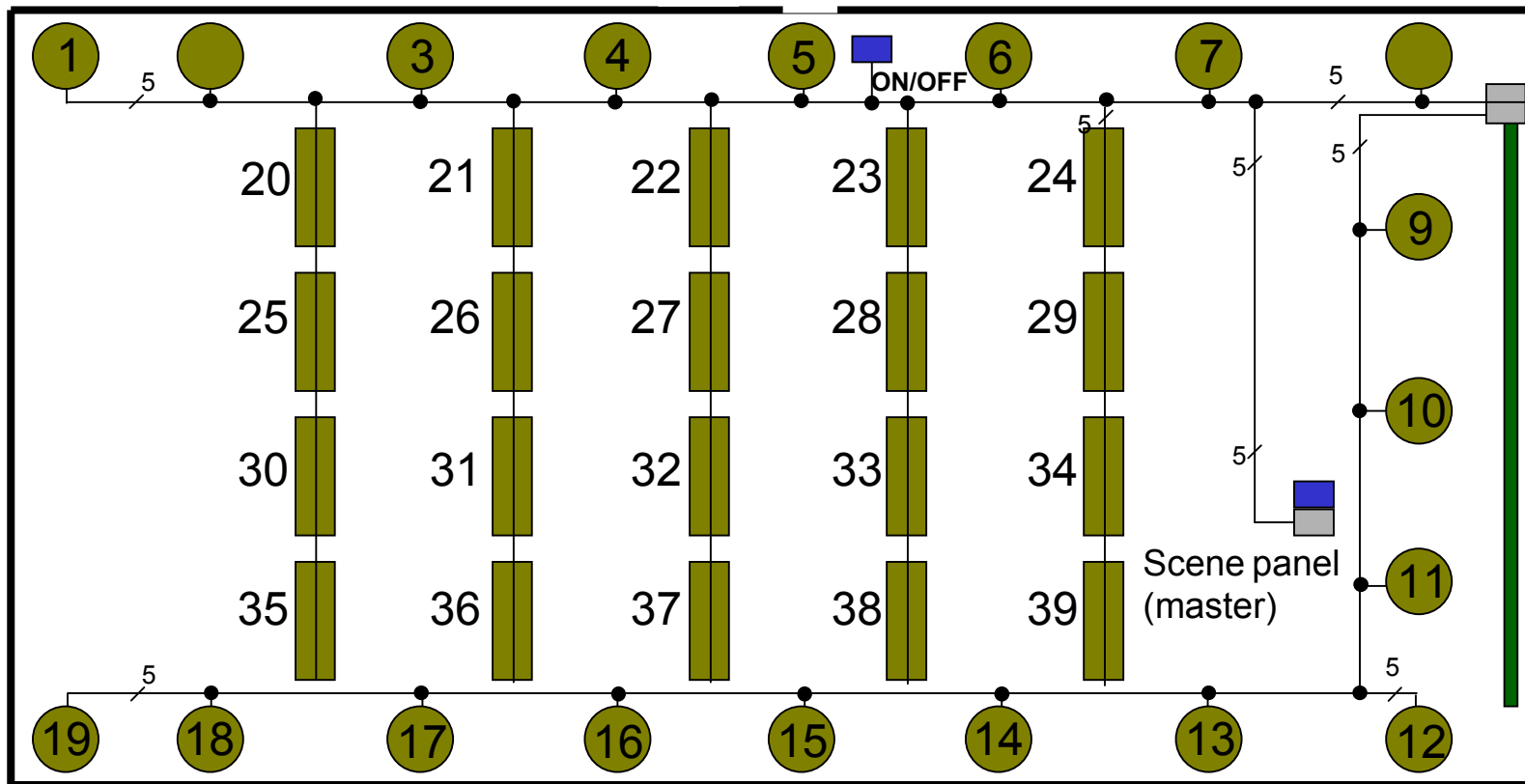




Application

Multi Purpose Room (Wiring example)

NYM 5x1,5mm² wiring is acceptable,
All gears and controllers in paralell !

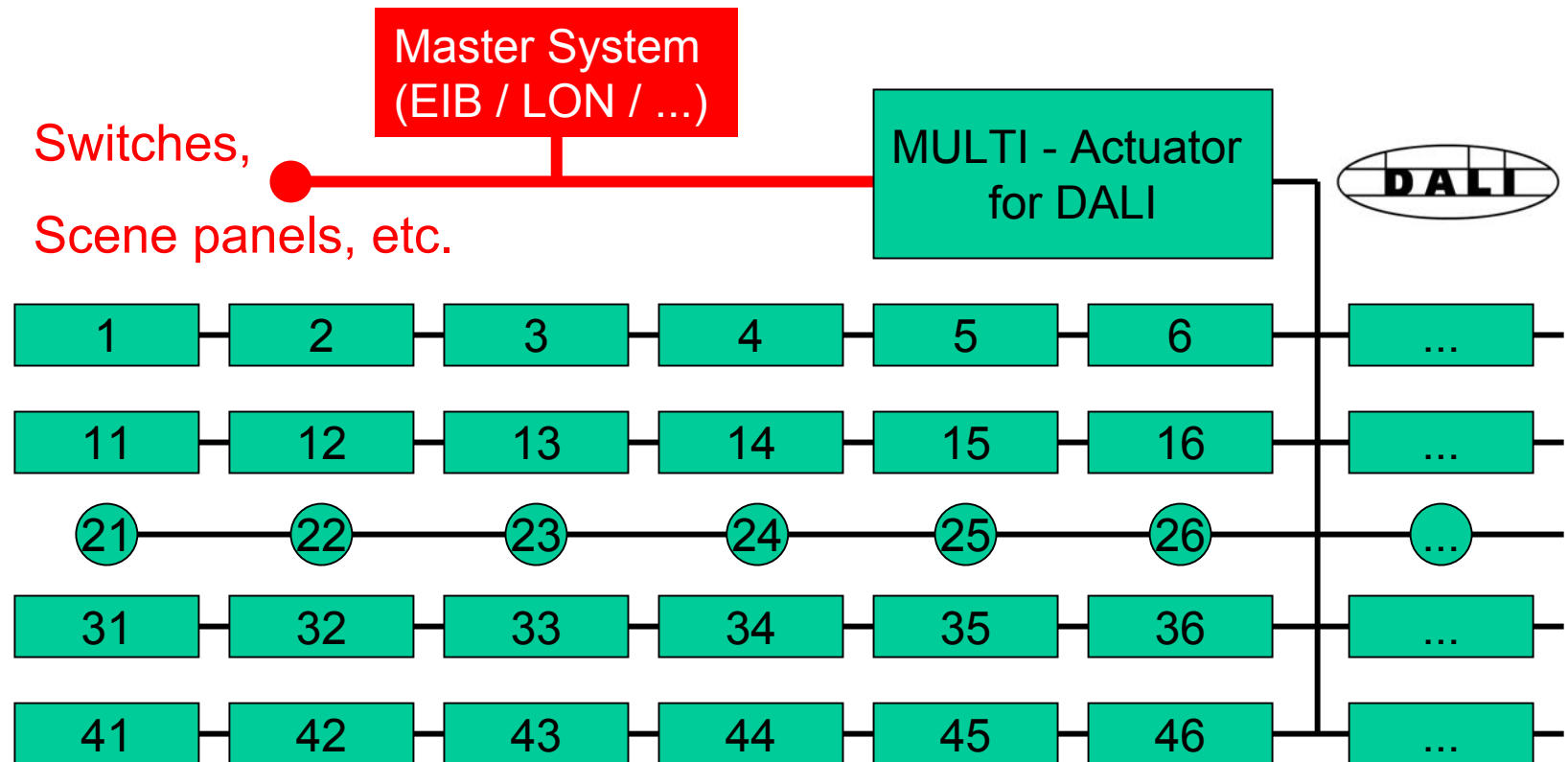


DALI & 230V wiring: no special cables, easy configuration



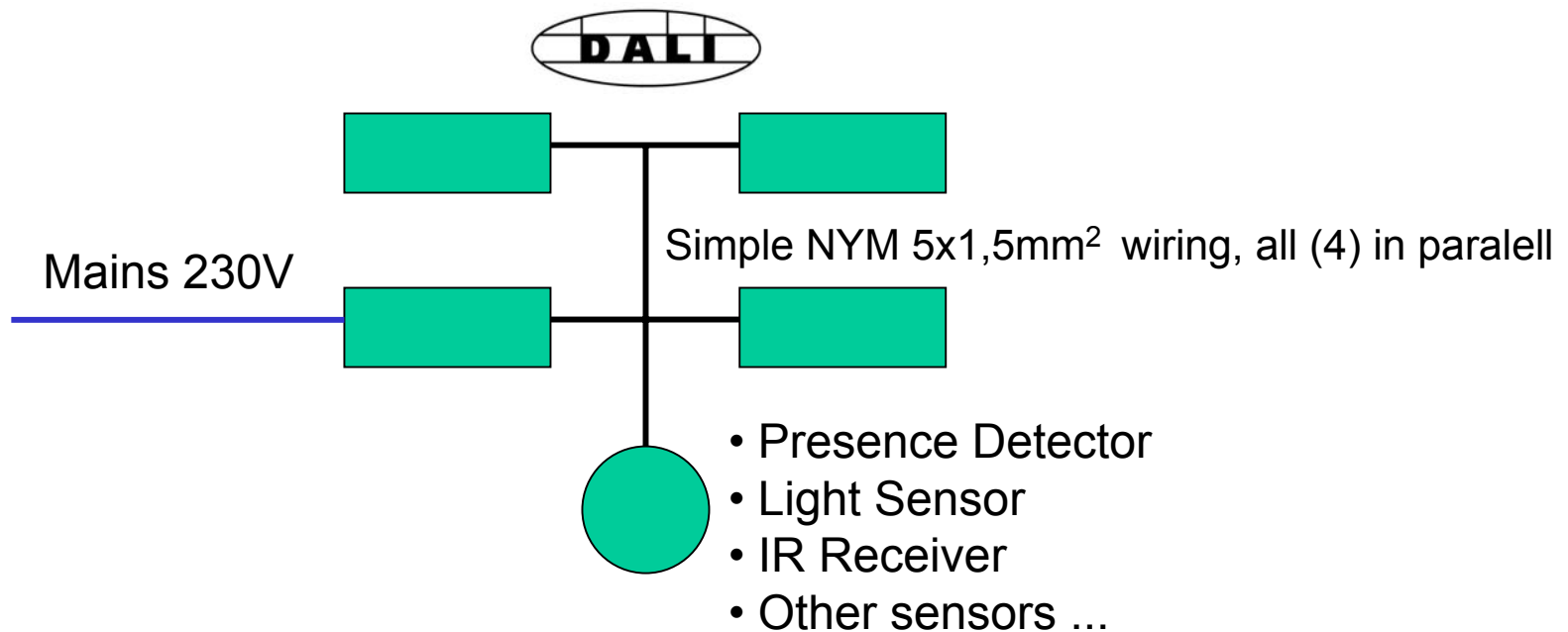
Application

Office with EIB/LON/etc. master system



Application

„Intelligent“ set of luminaires

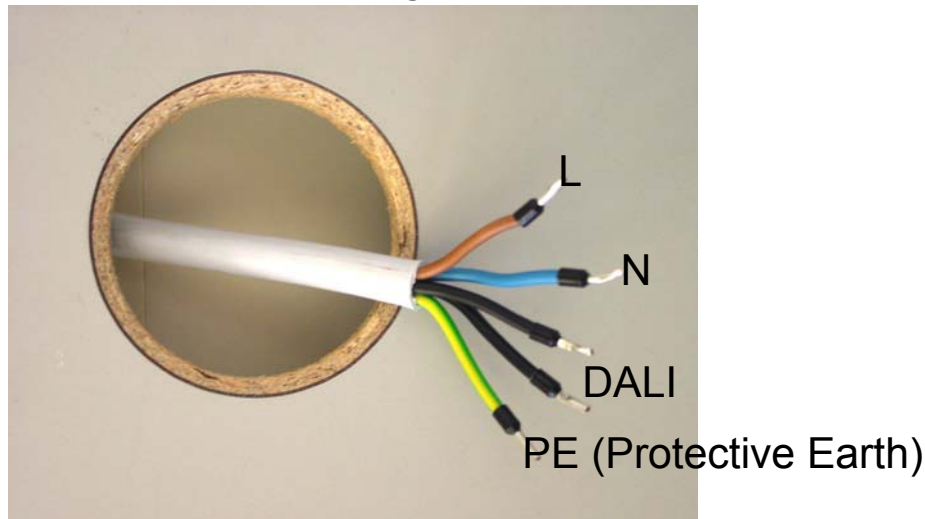


Features



Wiring requirement

- Low voltage system (16V pulsed DC), no safety insulation in ballasts.
- 2 poles on each device, wire in parallel (no polarity requirements)
- Max. 64 devices per DALI - Master (Controller)
- No special cabling (twisted pair etc.) requirements, 2*1,5 mm² necessary to cover full distance
- Max. 300m cable run from master to last ballast (2V drop max.)
- Multiple cable segments from master possible (tree structure)



Features



Address space

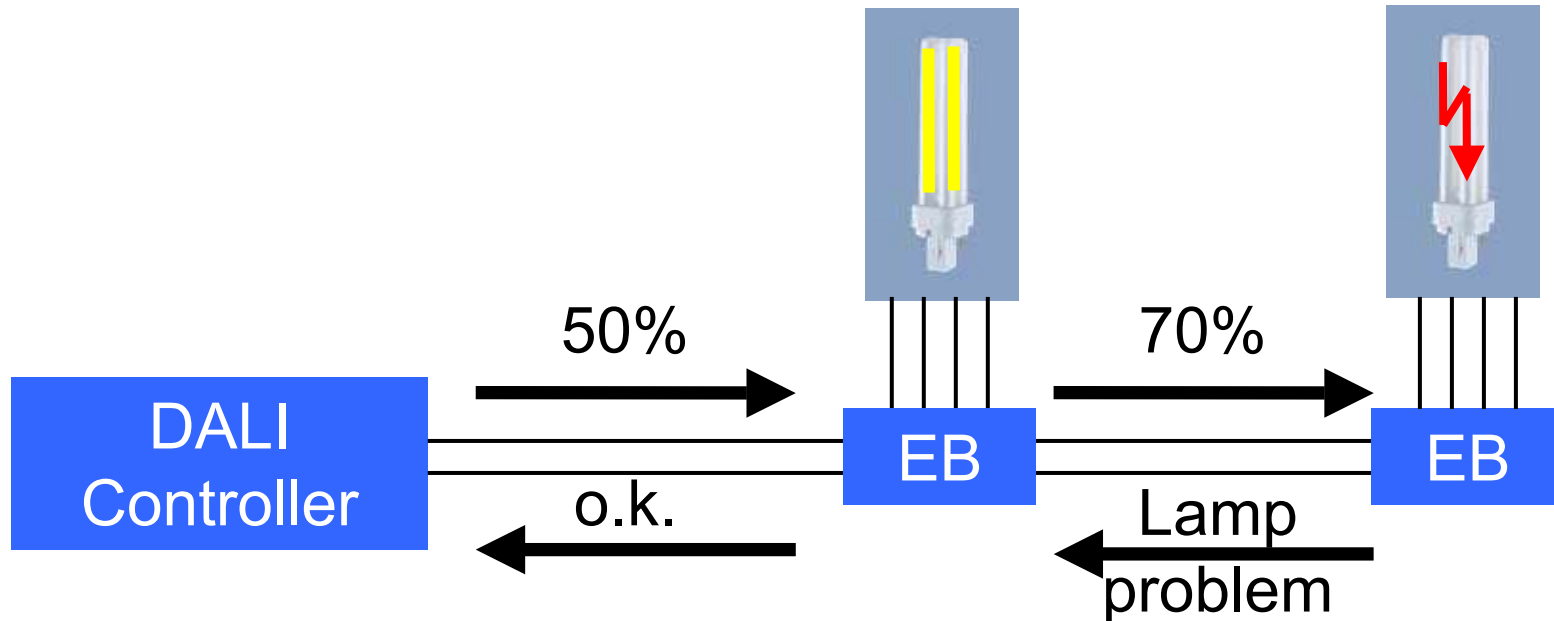
- 64 device addresses
 - The device address is stored inside the ballast.
 - There are several methods available to give the ballast an address.
 - All settings (including addressing) are stored permanently.
- Each device (address) is part of max. 16 groups
 - Groups may overlap, membership is stored in ballast!
- Each device (address) is part of max. 16 scenes
 - Each device remembers one dim-value (or a „no-change“) per scene.
- Broadcast methods (=„to / from all“) are available.

Features



Performance:

- ON, OFF, More, Less, Go to Light Level
- Recall Scene, Store actual values as Scene.
- Report Status (e.g. Lamp o.k. / Faulty)



Summary



Key aspects

- DALI is simple
- DALI is powerful
- DALI fits perfect into EIB, LON and other systems.
- DALI is a worldwide standard
- DALI applications are best in value for money
- DALI is available

Congratulations



You have been a wonderful audience

Any Questions?

VISIT the booth of AG - DALI in Hall 15/2 #A24