## ZVEI

## LINECT-

The light connection system of the lighting industry


## Topics

## LINECT - THE LIGHT CONNECTION SYSTEM

1. Expectations of the lighting industry
2. The solution of the components manufacturer
3. The way to readiness for start of production and overview of the availability
4. Feedback from the market
5. Advantages of Linect - Statements of the lighting industry

- Zumtobel
- Trilux
- Glamox

6. Discussion


## Expecations of the lighting industry

## LINECT - THE LIGHT CONNECTION SYSTEM

## Expectations of the lighting industry

Savings of time and cost by ...
... the reduction of diversity of variants
... faster availability of lights in the market
... simplification of production flows and logistics

The idea: 1 luminaire for all kinds of installation


Order for the components manufacturer: product development

The solution of the components manufacturer

## The solution of the components manufacturer

- Universal Linect ${ }^{\circledR}$-Interface: Standardization of the connection principle
- New Linect-Terminal Block (price-neutral with the parent variant)
- New Linect-Connector appropriate to available pluggable installation systems at the market


Presentation of the concept and of first products at the L\&B 2010!

The way to readiness for start of production
LINECT - THE LIGHT CONNECTION SYSTEM

## The way to readiness for start of production

Components manufacturer:

- Product portfolios are completed
- Product availability is built up
- Minimum stock quantity is set up

ENSTO

TRIDONIC
v connection technology

W/ara
www.wieland-electric.com


## Product availibility

## LINECT - THE LIGHT CONNECTION SYSTEM



The way to readiness for start of production LINECT - THE LIGHT CONNECTION SYSTEM

The way to readiness for start of production

Lighting industry:

- Technical requirements for the production of Linect-luminaires are created
- Linect is partly integrated in serial production

ZUMTOBEL



CLAMOX

ETAP 面

REEOLUX

## Feedback from the market

## LINECT - THE LIGHT CONNECTION SYSTEM

## Feedback from the market

## Linect convinced!

Security through a technical perfected system

## Installer:

- Short time of installation through pluggable electrical installation
- Avoidance of mistakes through mismated and quality proved components
- High flexibility in exercises of service and care


BOSCH
Technik fürs Leben


## Planer:

- Fast availability of luminaires
- Short time of installation through pluggable electrical installation
- Security for prospective change of use


## ZVE

# LINECT MULTIPLUG ZUMTOBEL LIGHTING 

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ZUMTOBEL
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Manfred Petschulat

Product Management Director
Indoor Commercial

## LINECT MULTIPLUG

## WHY ZUMTOBEL LIGHTING SUPPORTS LINECT

- Why use a standardized

Connection System?

## linect

the light connection system

## LINECT MULTIPLUG PLUS VS MINUS

 ZVEZUMTOBEL


## LINECT MULTIPLUG

## ADVANTAGES

ZUMTOBEL

- Luminaire Connectivity is no USP for Zumtobel as a lighting manufacturer
- Different connectivity requirements from customers result in complexity $=$ cost
- A standardized connection system reduces complexity



## LINECT MULTIPLUG

## COMPLEXITY

- Luminaire Connectivity is no USP for Zumtobel as a lighting manufacturer
- Different connectivity requirements from customers result in complexity $=$ cost

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| SR2 | T12 | W3 | WB3 | W5 | WB5 |



## LINECT MULTIPLUG

## COMPLEXITY

- Luminaire Connectivity is no USP for Zumtobel as a lighting manufacturer
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linect
the light connection system


## LINECT MULTIPLUG

## COST FOR TERMINAL BLOCK



- Cost for Terminal block increases about factor
~ 30 cent
Terminalblock
Punching
Stickers
Handling


Standard

linect
the light connection system

## LINECT MULTIPLUG <br> MARKET PULL



- No Market Pull yet



## LINECT MULTIPLUG

## PRODUCT MAINTENANCE

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## ZUMTOBEL

Existing product families need to be maintained

- Resources in Development = Money
- New punching pattern for linect terminal block
- Invest app. 3.000 EUR



## LINECT MULTIPLUG CONCLUSION

Linect is the new standardized connection system

Will only become standard if this
system covers > 50\% of Market and is

supported by

- Lighting Manufacturers
- Connectivity Industry



## ZVEI

## linect

Linect @ TRILUX
D. Pietz - Product Management TRILUX

## LINECT MULTIPLUG <br> AURISTA NEW DEVELOPMENT

## ZVE



Focus: Customer benefit and product differentiation


Sub-targets:

Reduce complexity
Minimise administration effort
Simple for customers

##  NEUES LICHT.

# LINECT MULTIPLUG 

## 



Reduction of TK numbers 60 \%

## LINECT MULTIPLUG AURISTA CUSTOMER PROCESS

## ZVE

## TEves.

Until now: decision for connection was needed before


1. decision
2. decision

,

3. decision



## LINECT MULTIPLUG <br> AURISTA CUSTOMER PROCESS



## LINECT MULTIPLUG

ZVE

## Trivishicx

Linect: decision for connection afterwards and can be changed at any time

$\square$

1. decision

wiv wieland

## LINECT MULTIPLUG LINECT ADVANTAGES

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- Less costs and less complexity for everyone!
- Maximum flexibility at all times
- Simplified planning everywhere
- Always quick and safe

- Selection freedom: uncomplicated



## LINECT MULTIPLUG LINECT GOES STANDARD

## ZVE

## 

the light connection system

- Less mistakes

- Less effort
- Less incompatibility
- Less inflexibility
- ...
- ...



## ZVE

## GLAMOX CUXO

## linect <br> the light connection system



## (restamox LUXO

## A high quality universal wiring system that makes installation simple on site

- Plug and play: Luminaires with Linect connectors are very quick to install
- The connection can be installed or removed just as quickly. Defective lights can be hot swapped.
- Luminaires fitted with Linect ${ }^{\circledR}$ terminals can also be wired conventionally without having to use the built-in plug system.



## (lamox cuxo

## A high quality universal system from which specifiers can benefit in many ways

- Component compatibility raises the level of freedom of planning and design success and certainty. The installation system is totally independent of the luminaires that are selected.
- This simplifies all phases in a project.
- With Linect luminaires, the wiring installation cost can be made supplier independent - for both conventional wiring and connection



## GENERAL RECESSED SOLUTIONS

## 四 GLAMOX LUXO



Minerva


Modul Modul LED


## Sports hall, industry and

 architectural lighting solutions

## 緱 GLAMOX CUXO



C61

Also available with our wide range of downlights
D20

## 綗GLAMOX LUXO



Travel

## D20 LED




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## Thank you for your attention!

