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
- The way to readiness for start of production and overview of the availability
- 4. Feedback from the market
- Advantages of Linect Statements of the lighting industry
 - Zumtobel
 - Trilux
 - Glamox
- 6. Discussion





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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



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The solution of the components manufacturer LINECT – THE LIGHT CONNECTION SYSTEM

The solution of the components manufacturer

- Universal Linect®-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!



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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 •





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Product availibility LINECT – THE LIGHT CONNECTION SYSTEM

Product availa	ability				
	aomry		Available		as required
No. of poles Cod- ing .	2-pole	3-pole	4-pole		5-pole
А	Mains L - N	Mains L - PE - N	Mains N - PE – 2/L – 1/L´		Mains N - PE - L1 - L2 - L3
В		Control System 1 - 2 - 3			Control System 1- 2 - 3 - 4 - 5
I	DALI / dimm DA+ - DA-			I	Mains + DALI N - PE - L - DA DA+
L	Emergency power L´- N´			N	lains power + Emerg. power N - PE - L - N´ - L´
Р		UPS L - PE - N			



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

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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





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





Planer:

- Fast availability of luminaires
- Short time of installation through pluggable electrical installation

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• Security for prospective change of use

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ZUMTOBEL

LINECT MULTIPLUG ZUMTOBEL LIGHTING

Manfred Petschulat

Product Management Director Indoor Commercial





LINECT MULTIPLUG WHY ZUMTOBEL LIGHTING SUPPORTS LINECT

• Why use a standardized

Connection System?



ZUMTOBEL

the light connection system





LINECT MULTIPLUG PLUS VS MINUS













LINECT MULTIPLUG ADVANTAGES

- 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





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LINECT MULTIPLUG COMPLEXITY

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- 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



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LINECT MULTIPLUG COMPLEXITY

- 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







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the light connection system



LINECT MULTIPLUG COST FOR TERMINAL BLOCK



Cost for Terminal block increases

about factor

~ 30 cent







Standard



the light connection system





LINECT MULTIPLUG MARKET PULL



• No Market Pull yet







LINECT MULTIPLUG PRODUCT MAINTENANCE

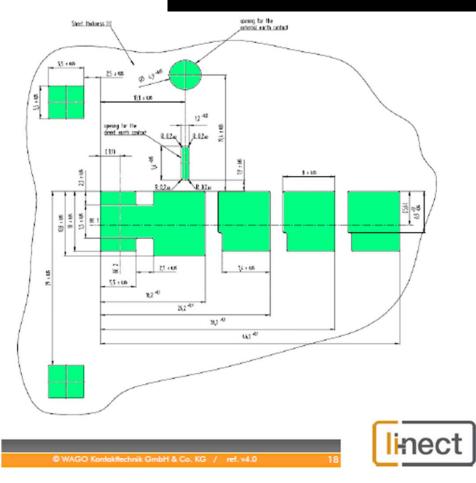


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Existing product families need to be maintained

- 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

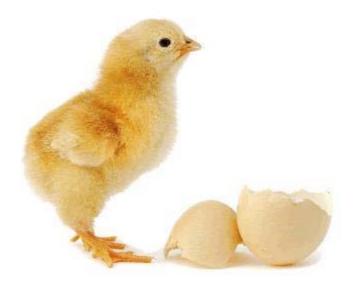
- Lighting Manufacturers
- Connectivity Industry



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the light connection system









Linect @ TRILUX

D. Pietz – Product Management TRILUX

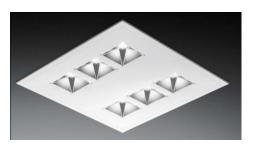






LINECT MULTIPLUG AURISTA NEW DEVELOPMENT

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Focus: Customer benefit and product differentiation

Sub-targets:



Reduce complexity Minimise administration effort Simple for customers







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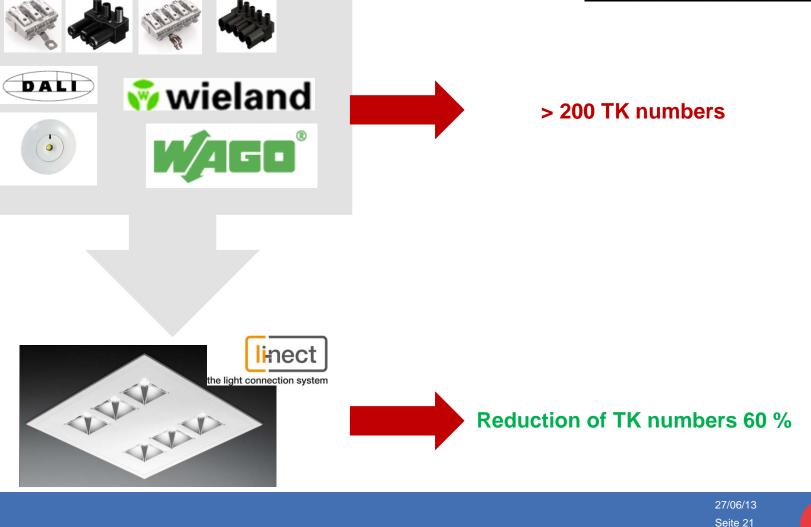


LINECT MULTIPLUG AURISTA NEW DEVELOPMENT

linect







LINECT MULTIPLUG AURISTA CUSTOMER PROCESS





Until now: decision for connection was needed before









LINECT MULTIPLUG AURISTA CUSTOMER PROCESS

ZVEI:







LINECT MULTIPLUG AURISTA CUSTOMER PROCESS



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



1. decision





LINECT MULTIPLUG LINECT ADVANTAGES

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

ZVEI:









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LINECT MULTIPLUG LINECT GOES STANDARD

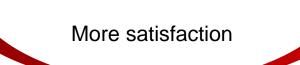






the light connection system

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









ZVEI:



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[®] terminals can also be wired conventionally without having to use the built-in plug system.





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













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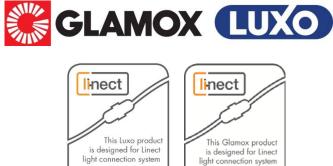
GLAMOX











LUXO



A51

inect

Also available with our wide range of downlights

D20





This Luxo product

linect



Travel

D20 LED And in case











linect















Thank you for your attention!



