

reddot winner 2023



## TUBO/SETA/TUBIN 60 CONEX system

surface/suspended

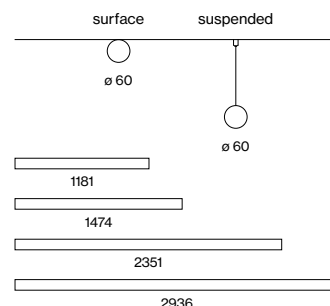
**EN** Cylindrical lighting system in aluminium; powder coated; wall-/ceiling surface mounting or suspended mounting; height adjustment without tools; incl. feeder cable; electrical connection of the luminaires via plug/socket system; optionally connectors (L-, T- or X-shape); luminaire connection rotatable around its own axis, which means that any spatial angle can be realized; optionally cylindr. HPO (High Performance Opal) cover, high gloss reflector with faceted design or clear, cylindrical cover with linear prismatic optic; light control via high quality lens system for homogeneous illumination (TUBO, TUBIN); direct, indirect or direct / indirect light distribution (SETA); indirect light component with integrated PC boards and high quality lens system for homog. ceiling illumination, separately controllable; energy-eff. LEDs - very good colour rendering

**DE** Zylindrisches Lichtsystem aus Aluminium; pulverbeschichtet; Wand-/Deckenanbau oder abgehängte Montage; werkzeuglose Höhenverstellung; inkl. Einspeiseleitung; elektrische Verbindung der Leuchten mittels Buchse/Stecker System; optionale Verbinder (L-, T- oder X-Form); Leuchtenverbindung um eigene Achse drehbar, dadurch beliebige Raumwinkel realisierbar; wahlweise zylindr. HPO (High Performance Opal) Abdeckung, hochglänzender Reflektor mit Facettenoptik oder klare, zylindrische Abdeckung mit Linearprismenoptik; Lichtlenkung mittels hochwertiger Linsenoptik für homogene Ausleuchtung (TUBO, TUBIN); direkte, indirekte bzw. direkt / indirekte Abstrahlcharakteristik (SETA); Indirektlichtanteil mit eigenen Platinen u. hochwertiger Linsenoptik für homog. Deckenaufhellung, separat steuerbar; energieeff. LEDs - sehr gute Farbwiedergabe

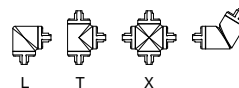
### Quickinfo

3000K, 4000K  
 CRI ≥ 80, CRI ≥ 90, 3 SDCM  
 UGR ≤ 19 / 65° ≤ 3000 cd/m²  
 up to 167 lm/W  
 opal up to 3100 lm/m  
 L90 @ 50 000 h  
 DALI-2  
 opal, reflector (UGR ≤ 19)

### Types



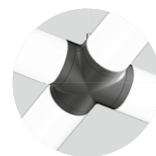
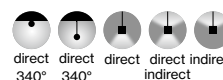
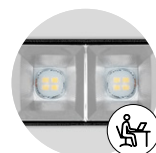
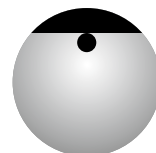
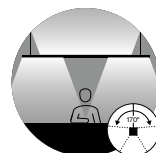
CONEX connector



### Colours







### Light distributions

connector  
CONEXcombinable with  
TUBO & SETAup to 160 lm/W  
(high efficiency)DIN EN 12464-1  
UGR ≤ 19TUBO: direct  
340° uniform  
illuminationSETA: direct  
and 170° indirect  
illumination

## Order options

### THROUGH WIRE TYPE

standard  	2
CONEX L/T/X  	3

between two CONEX connectors  
one CONEX luminaire or blind channel  
is needed



### COLOUR TEMPERATURE

3000 K (CRI <sub>≥</sub> 90)	0
4000 K (CRI <sub>≥</sub> 90)	1
3000 K (CRI <sub>≥</sub> 80)	5
4000 K (CRI <sub>≥</sub> 80)	6



### CONTROL

DALI-2

### MATERIAL COLOUR

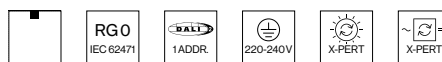
 pure white RAL 9010	7
 jet black RAL 9005	8

### REFLECTOR COLOUR

















































 chrome	R
 dark chrome	B

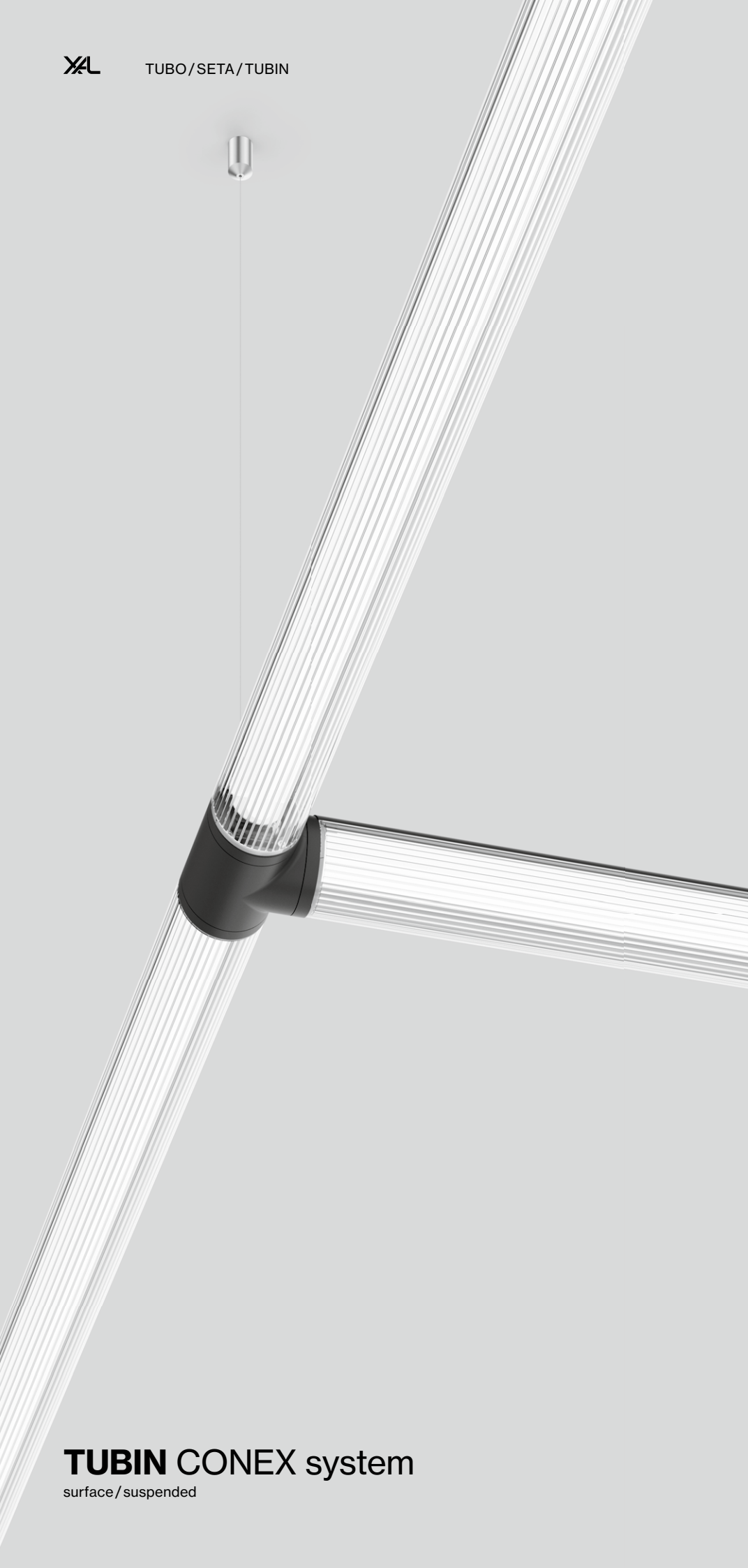


## TUBO 60 surface/suspended



### OPAL 340° DIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27.9 W	3000K	3180lm	1181	0 5 8 - 3 0                                                



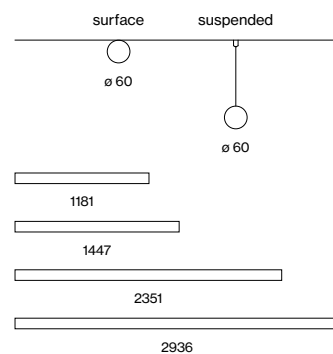
# TUBIN CONEX system

surface/suspended

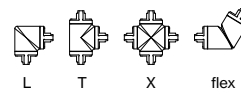
## Quickinfo

3000K, 4000K  
CRI ≥ 80, CRI ≥ 90, 3 SDCM  
up to 143lm/W  
up to 3280lm/m  
L90@50000h  
DALI-2  
lens/clear cover

## Types



CONEX connector



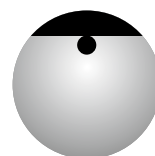
## Colours



## Light distributions



combinable with  
TUBO & SETA






340° uniform  
illumination




up to 133lm/W  
(high efficiency)

Order options




THROUGH WIRE TYPE 	
standard 	2
CONEX L/T/X 	3

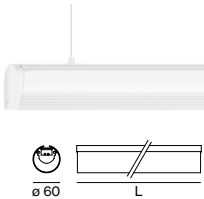
between two CONEX connectors  
one CONEX luminaire or blind channel  
is needed

COLOUR TEMPERATURE 	
3000 K (CRI≥90)	0
4000 K (CRI≥90)	1
3000 K (CRI≥80)	5
4000 K (CRI≥80)	6

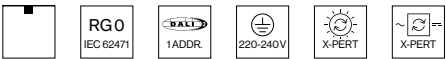
CONTROL

DALI-2













MATERIAL COLOUR 	
 pure white RAL 9010	7
 jet black RAL 9005	8



TUBIN 60 surface/suspended



CLEAR 340° DIRECT

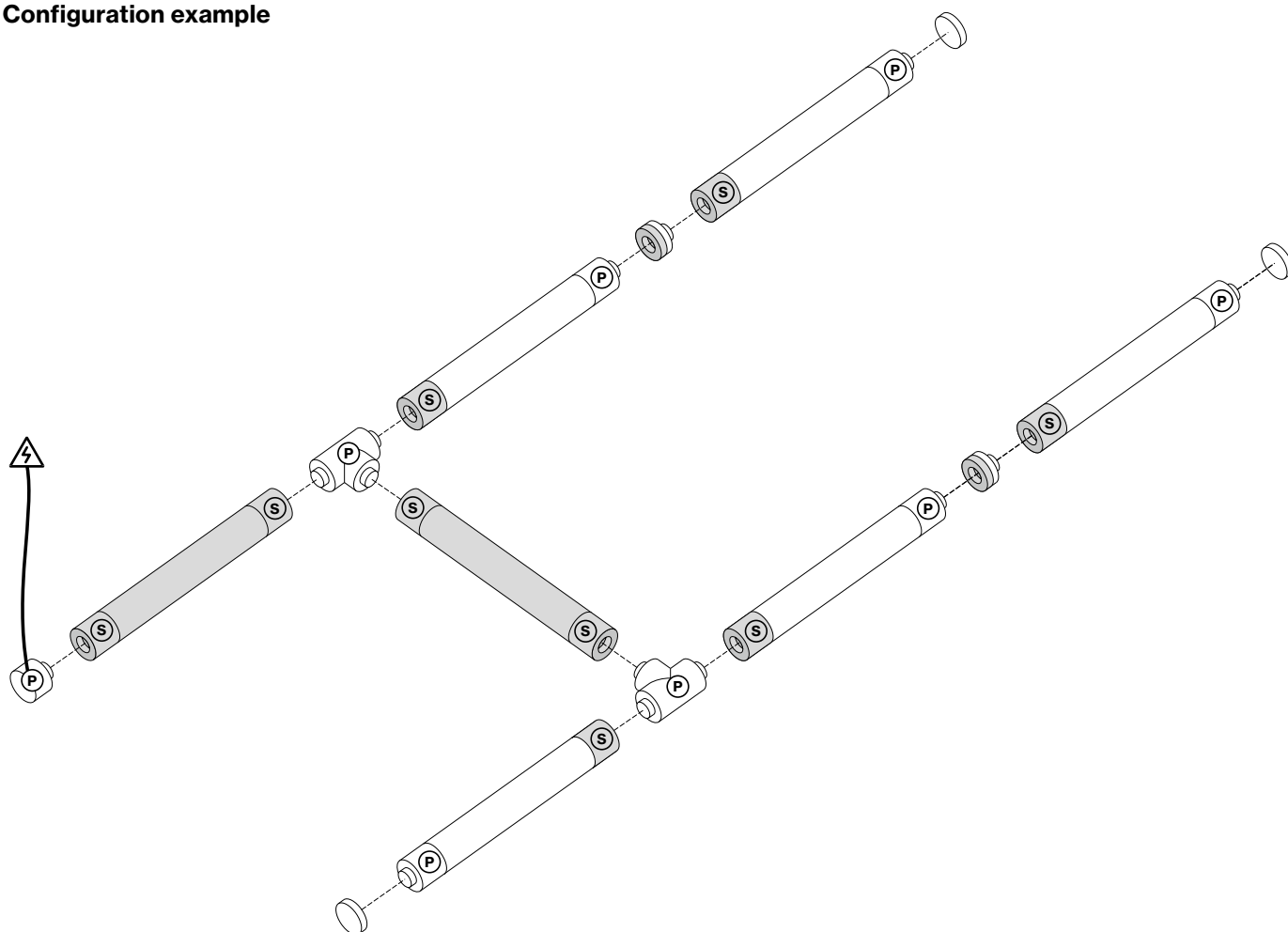
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27.9 W	3000K	3400lm	1181	0 5 8 - 5 0  4  3  C
	4000K	3870lm		
34 W	3000K	4220lm	1474	0 5 8 - 5 0  5  3  C
	4000K	4800lm		
54 W	3000K	6750lm	2351	0 5 8 - 5 0  8  3  C
	4000K	7680lm		
67 W	3000K	8430lm	2936	0 5 8 - 5 0  9  3  C
	4000K	9590lm		

Accessories

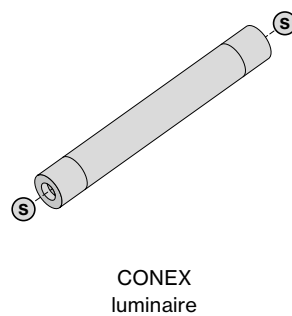
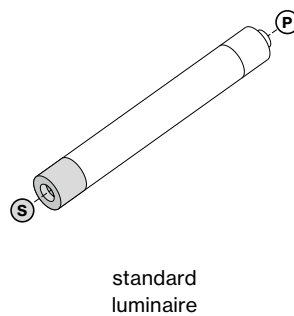
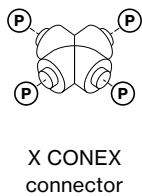
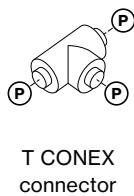
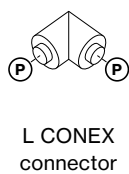
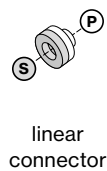
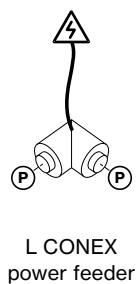
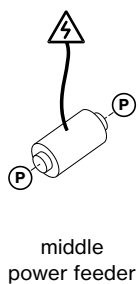
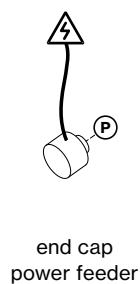
see next page

LUMINOUS FLUX value calculated for  
CRI≥80, colour white, cover opal  
CRI≥90 -18%

## Configuration example



## Components



## Order options

### THROUGH WIRE TYPE

standard (P) (S)	2
CONEX L/T/X (S) (S)	3

between two CONEX connectors  
one CONEX luminaire or blind channel  
is needed

### MATERIAL COLOUR

○ pure white RAL 9010	7
● jet black RAL 9005	8

### MATERIAL COLOUR CABLE SUSPENSION

✓ chrome	0
● black	8

## Accessories

### END CAP

TYPE	ORDER CODE
end cap	058-301001

### POWER FEEDER SURFACE

TYPE		ORDER CODE
end cap power feeder	(P)	058-301021
middle power feeder*	(P) (P)	058-301121

\*incl. feeder cable 5 × 1.5 mm<sup>2</sup>

### POWER FEEDER SUSPENDED incl. feeder cable 5 × 1.5 mm<sup>2</sup>

TYPE	L (mm)	ORDER CODE
end cap power feeder	(P) 1500	058-301041
middle power feeder*	(P) (P) 1500	058-301131
L CONEX power feeder**	(P) (P) 1500	058-301873

\*order cable suspension separately; \*\*order CONEX cable suspension separately

### LINEAR CONNECTOR

TYPE	ORDER CODE
linear connector mechanical	058-301311
linear connector mechanical & electrical	(P) (S) 058-301312

### LINEAR CONNECTOR SUSPENDED incl. cable suspension 1500 mm

TYPE	L (mm)	ORDER CODE
mechanical	1500	058-301321
mechanical angular max. 60°	1500	058-301331
mechanical & electrical	(P) (S) 1500	058-301322
mech. & electr. angular max. 60°	(P) (S) 1500	058-301332

### CONEX CONNECTOR

TYPE	ORDER CODE
L CONEX connector mech. & electr.*	(P) (P) 058-301872
T CONEX connector mech. & electr.*	(P) (P) (P) 058-301882
X CONEX connector mech. & electr.*	(P) (P) (P) (P) 058-301892
CONEX flex connector	(P) (P) 058-301862

\*order CONEX cable suspension separately

### MOUNTING SET

TYPE	L (mm)	ORDER CODE
ceiling mounting set	75	058-301411
wall mounting accessory	25	058-301441
cable suspension	1500	058-301421
cable suspension angular max. 60°	1500	058-301431
connector cable suspension	1500	058-301811
tool for CONEX cable suspension	-	050-2049110

### CANOPY

TYPE	Ø-H (mm)	ORDER CODE
canopy	90-22	005-260003

for electrical system configuration see luminaire data sheet at xal.com

### BLIND CHANNEL incl. through wiring

L (mm)	ORDER CODE
595	058-490203
1181	058-490403
2351	058-490803
2936	058-490903

### SENSOR DALI-2

TYPE	ORDER CODE
ESSENTIAL (brightness & presence)	(P) (P) 058-301911
SENSE (brightness, presence, temperature, sound pressure, humidity, CO <sub>2</sub> )	(P) (P) 058-301921