

reddot winner 2023



## TUBO/SETA/TUBIN 60 CONEX system

surface/suspended

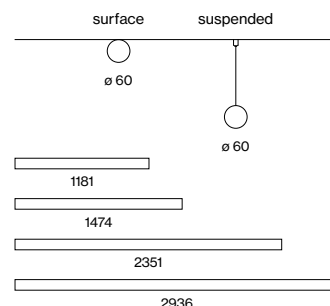
**EN** Cylindrical lighting system in aluminium; powder coated; wall-/ceiling surface mounting or suspended mounting; height adjustment without tools; incl. feeder cable; electrical connection of the luminaires via plug/socket system; optionally connectors (L-, T- or X-shape); luminaire connection rotatable 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

**ES** Sistema de iluminación cilíndrico de aluminio; recubierto de polvo; montaje sobre pared/techo o suspendido; altura regulable sin herramientas; incl. cable de alimentación; unión eléctrica de las luminarias con conexión macho/hembra; conector opcional (en forma de L, T o X); conexión de luminaria girable en su propio eje que permite la orientación en cualquier ángulo de la sala; difusor cilíndrico HPO (High Performance Opal) opcional, reflector de alto brillo con diseño facetado o difusor transparente cilíndrico con óptica prismática lineal; direccionamiento de la luz con óptica de lente de alta calidad para un alumbrado homogéneo (TUBO, TUBIN); proyección directa, indirecta o directa/indirecta (SETA); componente de luz indir. con plet. propias y ópt. de lente de alta calidad para un alumbr. de techo y homog. con control indep.; LED energét. efíc. - excelente reprod. crom.

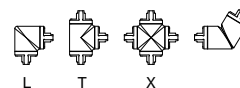
### Quickinfo

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



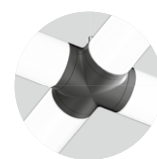
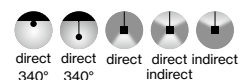
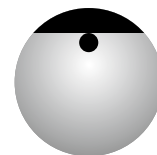
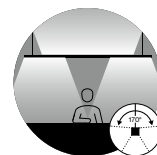
CONEX connector



### 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

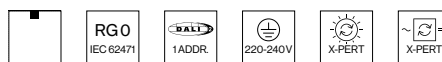
 pure white RAL 9010	7
 jet black RAL 9005	8

### REFLECTOR COLOUR













 chrome	R
 dark chrome	B

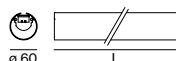


## TUBO 60 surface/suspended



### OPAL 340° DIRECT













SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27.9 W	3000 K	3180 lm	1181	0 5 8 - 3 0  4  3  O
	4000 K	3620 lm		
34 W	3000 K	3950 lm	1474	0 5 8 - 3 0  5  3  O
	4000 K	4490 lm		
54 W	3000 K	6300 lm	2351	0 5 8 - 3 0  8  3  O
	4000 K	7170 lm		
67 W	3000 K	7880 lm	2936	0 5 8 - 3 0  9  3  O
	4000 K	8970 lm		

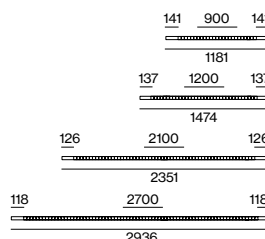


## SETA 60 surface/suspended

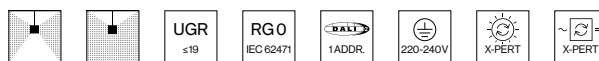


### REFLECTOR DIRECT













SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
18.6 W	3000 K	2650 lm	1181	0 5 8 - 4 0  4  3  ■
	4000 K	3010 lm		
24.9 W	3000 K	3530 lm	1474	0 5 8 - 4 0  5  3  ■
	4000 K	4010 lm		
43 W	3000 K	6170 lm	2351	0 5 8 - 4 0  8  3  ■
	4000 K	7030 lm		
54 W	3000 K	7940 lm	2936	0 5 8 - 4 0  9  3  ■
	4000 K	9030 lm		

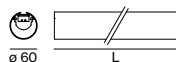
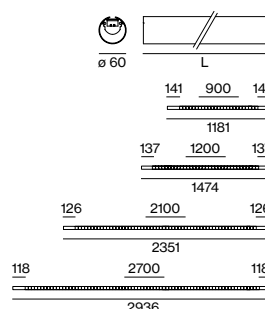


## SETA 60 suspended















### REFLECTOR DIRECT/INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
42 W	3000 K	↓ 2620 / ↑ 3260 lm	1181	0 5 8 - 4 1  4  3  ■
(2 × DALI)	4000 K	↓ 3010 / ↑ 3710 lm		
53 W	3000 K	↓ 3530 / ↑ 4070 lm	1474	0 5 8 - 4 1  5  3  ■
(2 × DALI)	4000 K	↓ 4010 / ↑ 4630 lm		
87 W	3000 K	↓ 6170 / ↑ 6510 lm	2351	0 5 8 - 4 1  8  3  ■
(2 × DALI)	4000 K	↓ 7030 / ↑ 7410 lm		
110 W	3000 K	↓ 7940 / ↑ 8140 lm	2936	0 5 8 - 4 1  9  3  ■
(2 × DALI)	4000 K	↓ 9030 / ↑ 9270 lm		



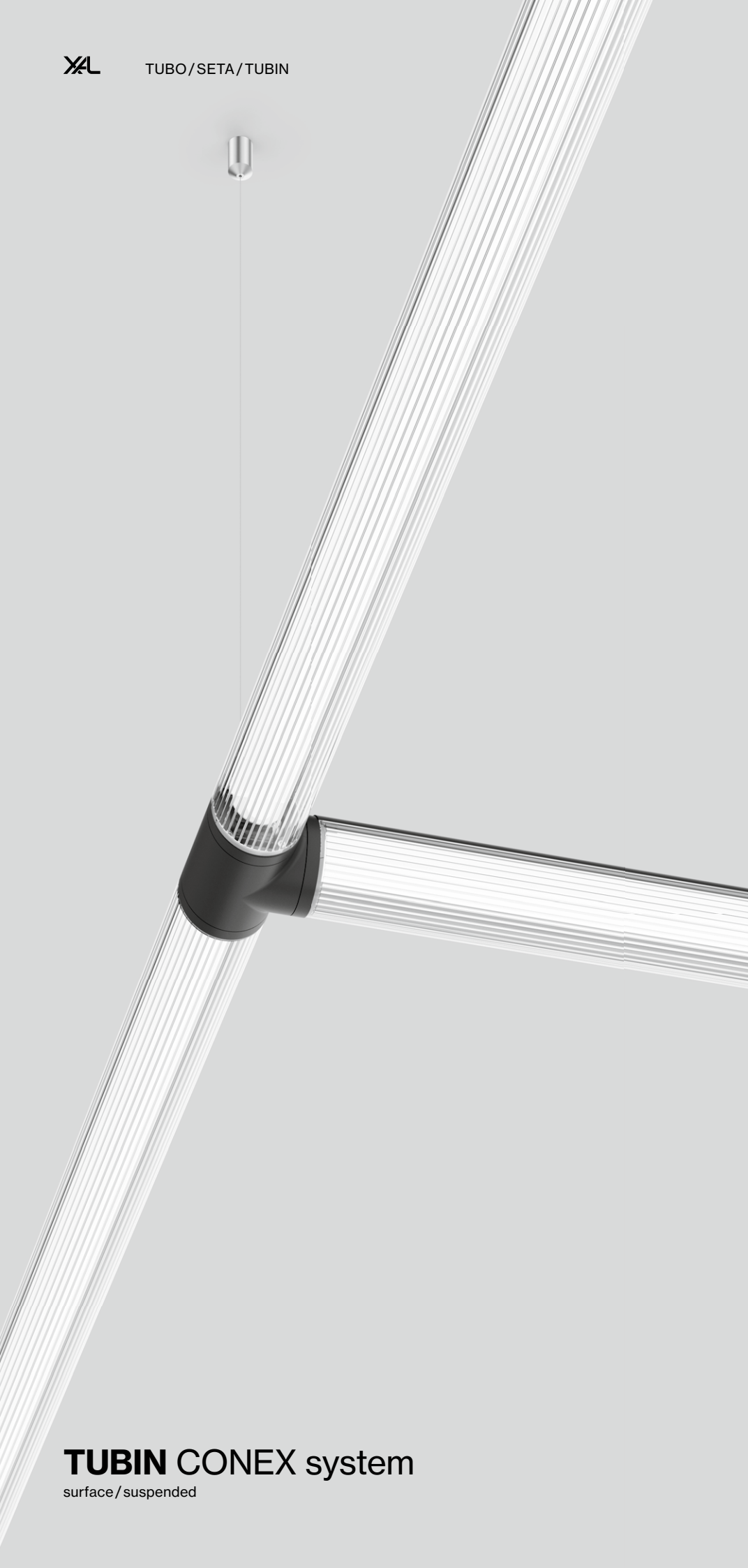
### INDIRECT

SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
24.1 W	3000 K	3260 lm	1181	0 5 8 - 4 2  4  3  ■
	4000 K	3710 lm		
29.5 W	3000 K	4070 lm	1474	0 5 8 - 4 2  5  3  ■
	4000 K	4630 lm		
47 W	3000 K	6510 lm	2351	0 5 8 - 4 2  8  3  ■
	4000 K	7410 lm		
58 W	3000 K	8140 lm	2936	0 5 8 - 4 2  9  3  ■
	4000 K	9270 lm		

## Accessories

see next page

**LUMINOUS FLUX** value calculated for  
CRI<sub>≥</sub>80, colour white, cover opal  
or reflector chrome  
CRI<sub>≥</sub>90 -18 %



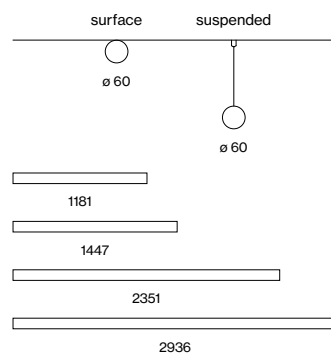
# TUBIN CONEX system

surface/suspended

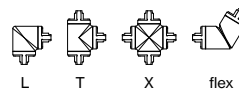
## Quickinfo

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



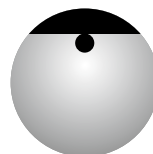
## Colours



## 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

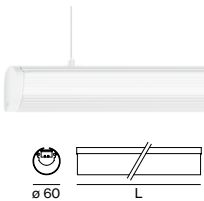
between two CONEX connectors  
one CONEX luminaire or blind channel  
is needed

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

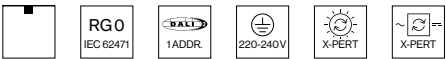
CONTROL

DALI-2













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



TUBIN 60 surface/suspended



CLEAR 340° DIRECT

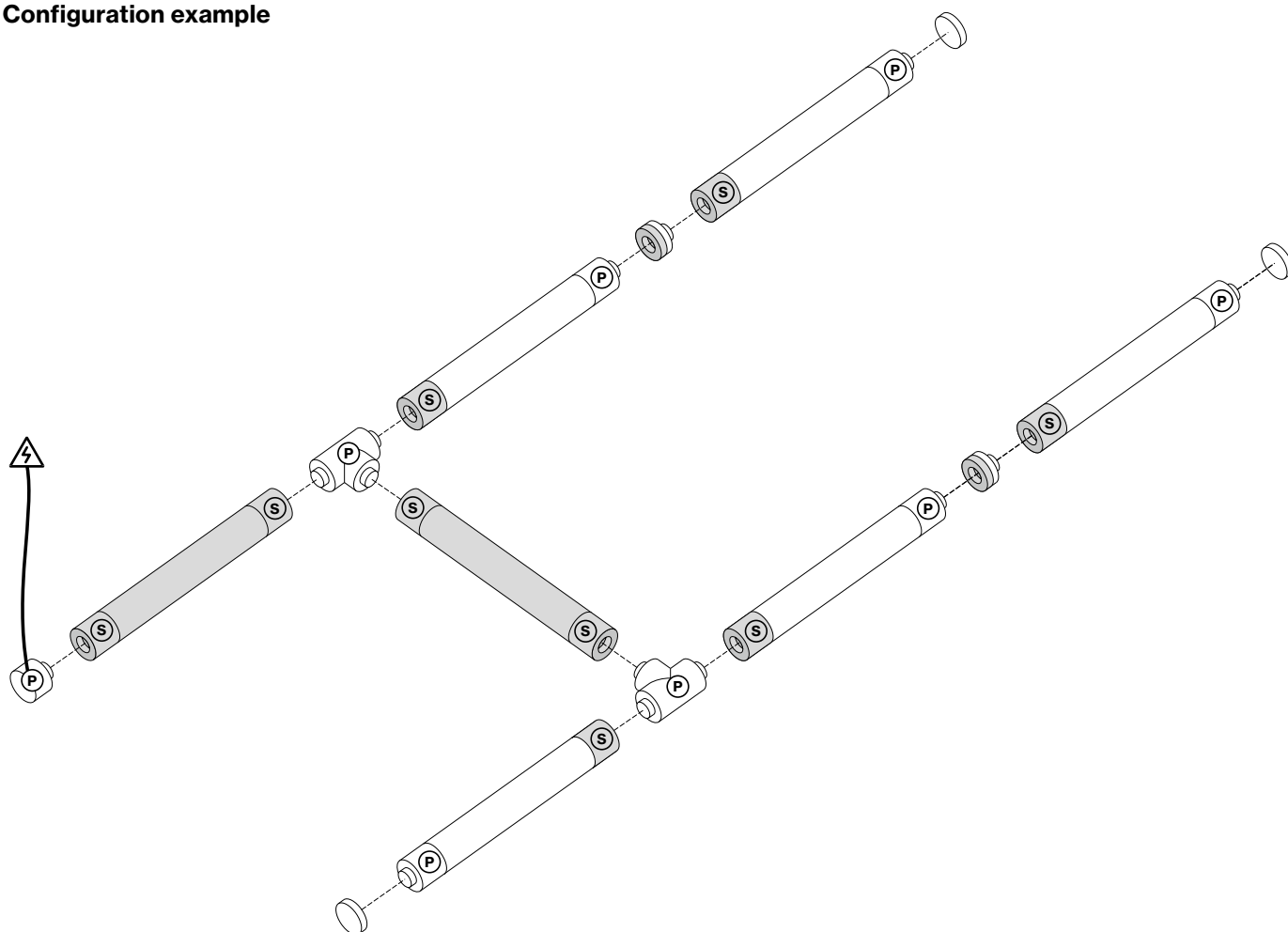
SYS. POWER	COLOUR TEMP.	LUM. FLUX	L (mm)	ORDER CODE
27.9 W	3000K	3400lm	1181	0 5 8 - 5 0  4  
	4000K	3870lm		
34 W	3000K	4220lm	1474	0 5 8 - 5 0  5  
	4000K	4800lm		
54 W	3000K	6750lm	2351	0 5 8 - 5 0  8  
	4000K	7680lm		
67 W	3000K	8430lm	2936	0 5 8 - 5 0  9  
	4000K	9590lm		

Accessories

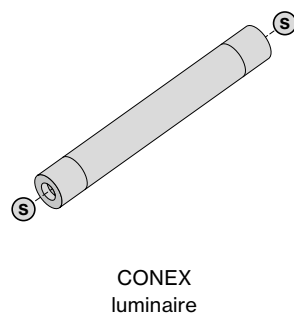
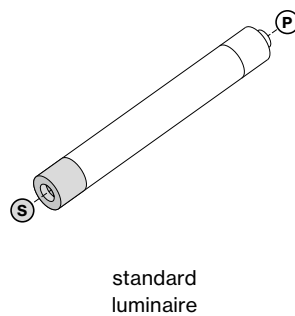
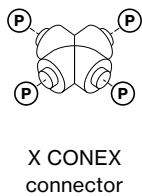
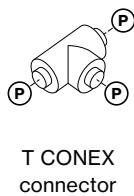
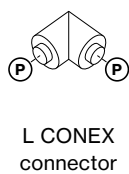
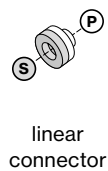
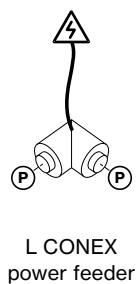
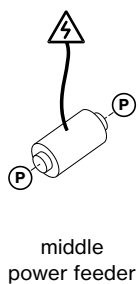
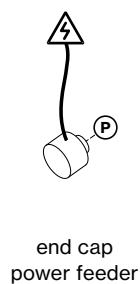
see next page

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