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

FR Système d'éclairage cylindrique en aluminium ; thermolaquée ; applique mur/plafond ou montage suspendu ; réglage en hauteur sans outil ; incl. conduit d'alimentation ; liaison électrique des lampes par système de prise/fiche ; connecteur en option (en L, T ou X) ; le raccord du luminaire peut pivoter sur son propre axe offrant ainsi une palette infinie de configurations d'angle ; en option, cache cylindrique HPO (High Performance Opal), réflecteur brillant avec optique à facettes ou diffuseur cylindrique clair avec optique à prismes linéaires ; lumière orientée au moyen d'une optique à lentilles de haute qualité pour un éclairage homogène (TUBO, TUBIN) ; caractéristique de rayonnement direct, indirect ou direct / indirect (SETA) ; proportion de lumière indir. avec platines propres + optique à lentille pour illum. de plafond homog., commande séparée ; LED à haut rend. énerg. - excellent rendu coul.

Quickinfo

3000 K, 4000 K
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

surface   suspended
ø 60   ø 60

1181
1474
2351
2936

CONEX connector

L   T   X

Colours

luminaire   reflector

Light distributions
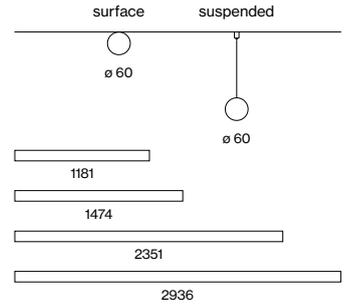
direct 340°   direct 340°   direct   direct indirect   direct indirect
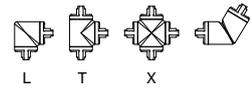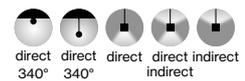
connector CONEX

combinable with TUBO & SETA

up to 160 lm / W (high efficiency)

DIN EN 12464-1 UGR ≤ 19
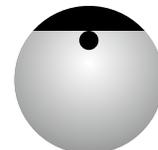
TUBO: direct 340° uniform illumination
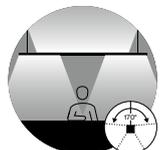
SETA: direct and 170° indirect illumination

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 ≥ 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

REFLECTOR COLOUR

◢ chrome	R
◕ dark chrome	B

TUBO 60 surface / suspended

■	RG 0 IEC 62471	DALI 1 ADDR.	⏚ 220-240V	X-PERT	~⟳= X-PERT
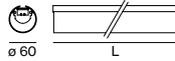
OPAL 340° DIRECT

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

▨	UGR ≤19	RG 0 IEC 62471	DALI 1 ADDR.	⏚ 220-240V	X-PERT	~⟳= X-PERT

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

▨	▨	UGR ≤19	RG 0 IEC 62471	DALI 1 ADDR.	⏚ 220-240V	X-PERT	~⟳= X-PERT
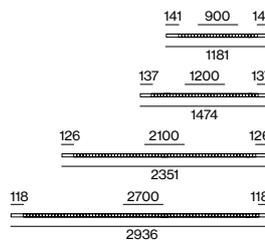
REFLECTOR DIRECT / INDIRECT

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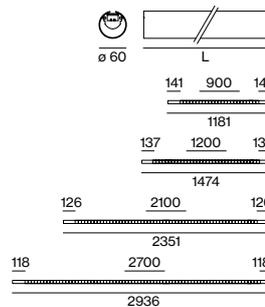
INDIRECT

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 ≥ 80, colour white, cover opal
or reflector chrome
CRI ≥ 90 -18 %
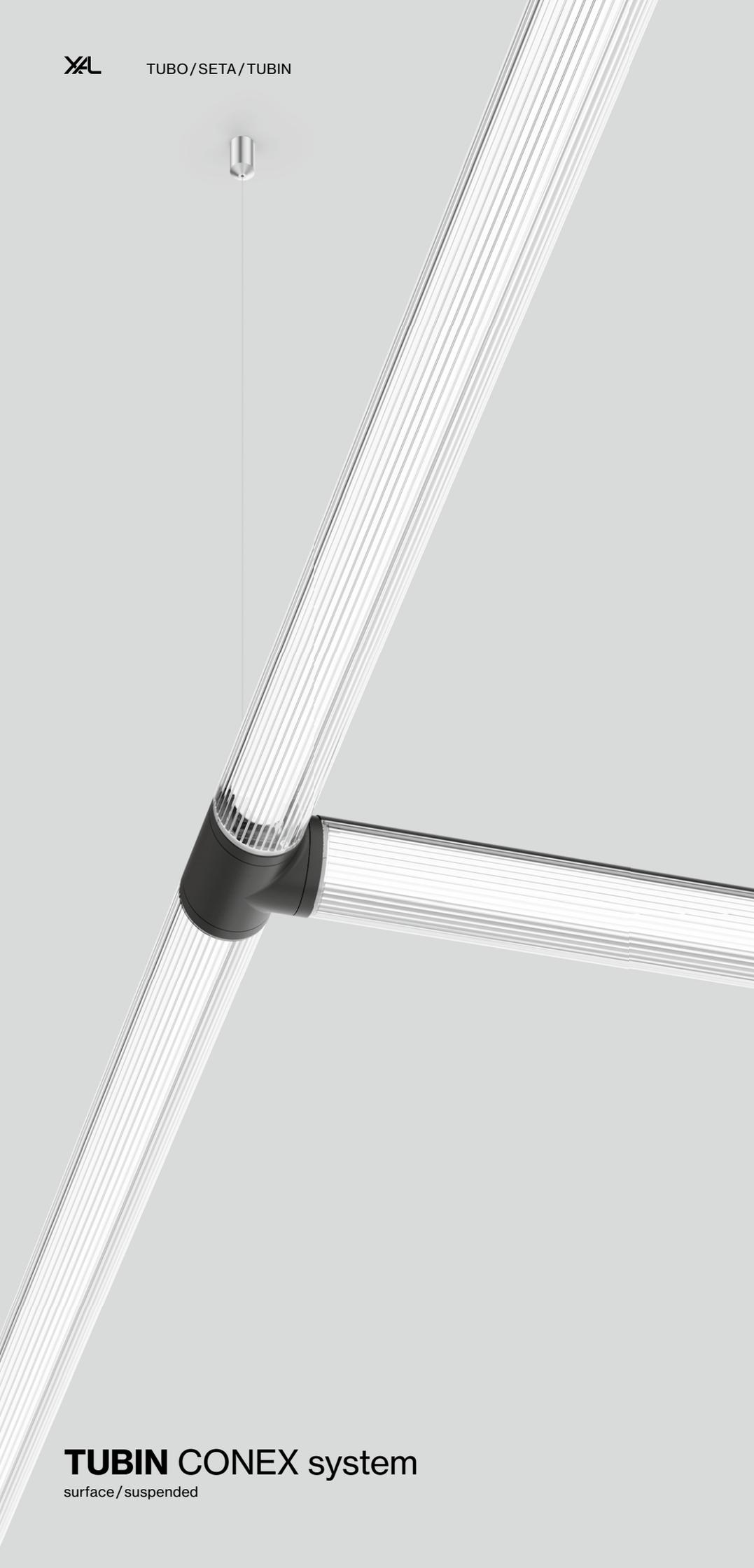
## Quickinfo

3000 K, 4000 K
CRI ≥ 80, CRI ≥ 90, 3 SDCM
up to 143 lm/W
up to 3280 lm/m
L90@50 000 h
DALI-2
lens / clear cover

Types

|	surface	suspended
	○	
	ø 60	
		○
		ø 60

1181

1447

2351

2936

CONEX connector

L	T	X	flex
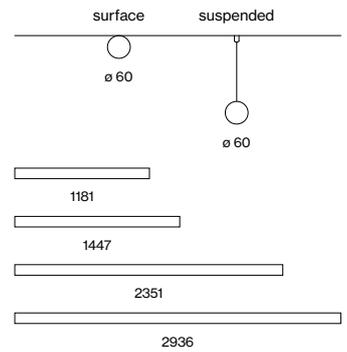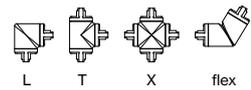
Colours

○ ●

Light distributions

direct 340°   direct 340°

combinable with
TUBO & SETA
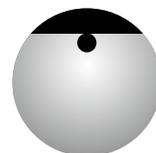
340° uniform
illumination

up to 133 lm/W
(high efficiency)

TUBIN CONEX system

surface / suspended

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

■	RG 0 IEC 62471	DALI 1 ADDR.	⏚ 220-240V	X-PERT	~⟳= X-PERT

ø 60   L

CLEAR 340° DIRECT

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

Accessories

see next page

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

Configuration example
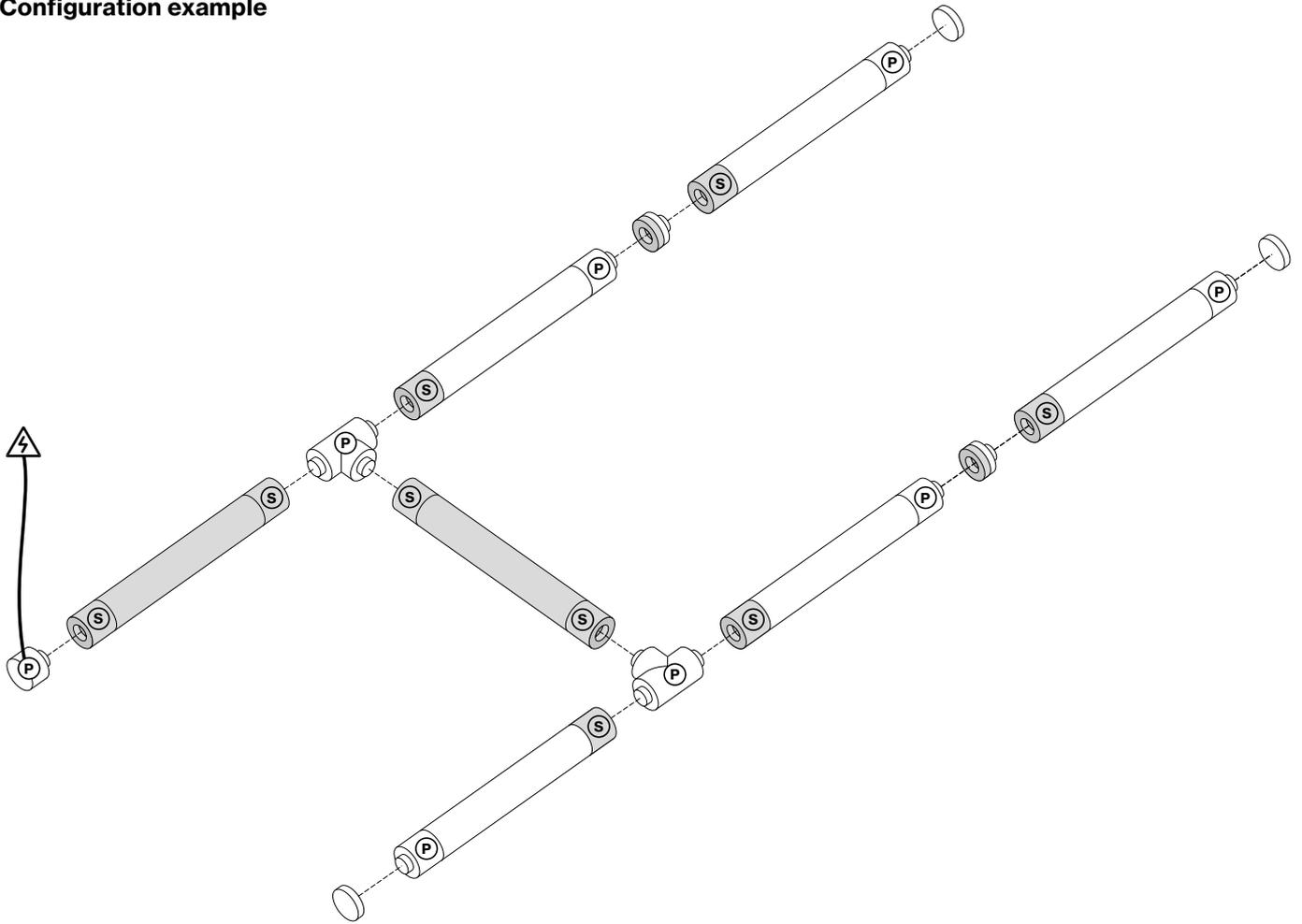
Components
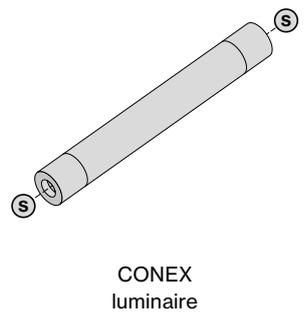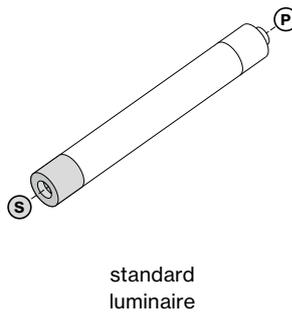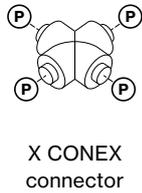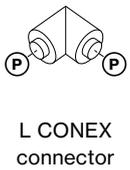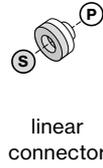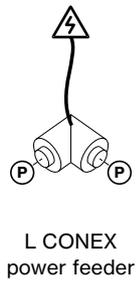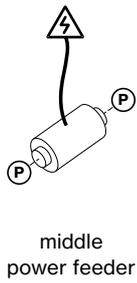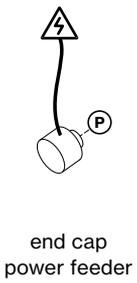
end cap
power feeder

middle
power feeder

L CONEX
power feeder

linear
connector

end cap

L CONEX
connector

T CONEX
connector

X CONEX
connector

standard
luminaire

CONEX
luminaire

Order options

THROUGH WIRE TYPE ⬡

standard ⓅⓈ	2
CONEX L / T / X ⓈⓈ	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

END CAP

TYPE		ORDER CODE
end cap		0 5 8 - 3 0 1 0 0 1 ◪

POWER FEEDER SURFACE

TYPE		ORDER CODE
end cap power feeder	Ⓟ	0 5 8 - 3 0 1 0 2 1 ◪
middle power feeder*	ⓅⓅ	0 5 8 - 3 0 1 1 2 1 ◪
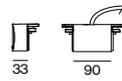
*incl. feeder cable 5 × 1.5 mm²

POWER FEEDER SUSPENDED incl. feeder cable 5 × 1.5 mm²

| TYPE		L (mm)	ORDER CODE
end cap power feeder	Ⓟ	1500	0 5 8 - 3 0 1 0 4 1 ◪
middle power feeder*	ⓅⓅ	1500	0 5 8 - 3 0 1 1 3 1 ◪
L CONEX power feeder**	ⓅⓅ	1500	0 5 8 - 3 0 1 8 7 3 ◪
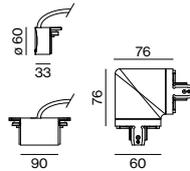
*order cable suspension separately; **order CONEX cable suspension separately

LINEAR CONNECTOR

TYPE		ORDER CODE
linear connector mechanical		0 5 8 - 3 0 1 3 1 1 ◪
linear connector mechanical & electrical	ⓅⓈ	0 5 8 - 3 0 1 3 1 2 ◪
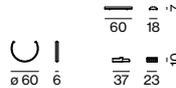
LINEAR CONNECTOR SUSPENDED incl. cable suspension 1500 mm

TYPE		L (mm)	ORDER CODE
mechanical		1500	0 5 8 - 3 0 1 3 2 1 ◪
mechanical angular max. 60°		1500	0 5 8 - 3 0 1 3 3 1 ◪
mechanical & electrical	ⓅⓈ	1500	0 5 8 - 3 0 1 3 2 2 ◪
mech. & electr. angular max. 60°	ⓅⓈ	1500	0 5 8 - 3 0 1 3 3 2 ◪
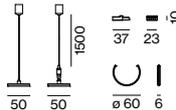
CONEX CONNECTOR

TYPE		ORDER CODE
L CONEX connector mech. & electr.*	ⓅⓅ	0 5 8 - 3 0 1 8 7 2 ◪
T CONEX connector mech. & electr.*	ⓅⓅⓅ	0 5 8 - 3 0 1 8 8 2 ◪
X CONEX connector mech. & electr.*	ⓅⓅⓅⓅ	0 5 8 - 3 0 1 8 9 2 ◪
CONEX flex connector	ⓅⓅ	0 5 8 - 3 0 1 8 6 2 ◪

*order CONEX cable suspension separately
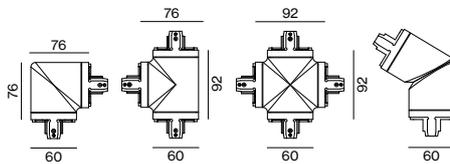
MOUNTING SET

TYPE	L (mm)	ORDER CODE
ceiling mounting set	75	0 5 8 - 3 0 1 4 1 1 ◪
wall mounting accessory	25	0 5 8 - 3 0 1 4 4 1 ◪
cable suspension	1500	0 5 8 - 3 0 1 4 2 1 ◼
cable suspension angular max. 60°	1500	0 5 8 - 3 0 1 4 3 1 ◼
connector cable suspension	1500	0 5 8 - 3 0 1 8 1 1 ◼
tool for CONEX cable suspension	-	0 5 0 - 2 0 4 9 1 1 0
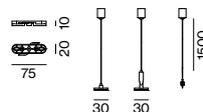
CANOPY

TYPE	Ø·H (mm)	ORDER CODE
canopy	90·22	0 0 5 - 2 6 0 0 0 3 ◪

for electrical system configuration see luminaire data sheet at xal.com
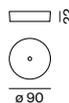
BLIND CHANNEL incl. through wiring

L (mm)	ORDER CODE
595	0 5 8 - 4 9 ○ 2 0 3 ◪
1181	0 5 8 - 4 9 ○ 4 0 3 ◪
2351	0 5 8 - 4 9 ○ 8 0 3 ◪
2936	0 5 8 - 4 9 ○ 9 0 3 ◪

SENSOR DALI-2

TYPE		ORDER CODE
ESSENTIAL (brightness & presence)	ⓅⓅ	0 5 8 - 3 0 1 9 1 1 ◪
SENSE (brightness, presence, temperature, sound pressure, humidity, CO₂)	ⓅⓅ	0 5 8 - 3 0 1 9 2 1 ◪