



FLUORESCENT LUMINARIES

23CC series of Ex e fluorescent luminaries





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For T8 lamps, 23CC5/2x18W and 23CC6/2x36W



DESCRIPTION The 23CC series of fluorescent luminaires is rigidised, corrosion resistant IP66 luminaires made of GRP with polycarbonate diffuser.

The internally one point operated locking system secure a reliable ingress protection over time as well as easy access during installation or relamping.

All internal components such as ballast, lampholders, safety switches, inverters, batteries, terminal strips are made to obtain a reliable, maintenance friendly and cost efficient solution during the entire life time of the luminary.

The emergency version has an incorporated inverter which is powered by the internal battery during failure of main power. The inverter control and secure the status of the batteries, such as more than 120 min emergency light can be obtained during power failure. 3 LED's gives the status of the emergency system.

* Standard two-supply circuit design and EOL protection when the life of the lamp is ending.

* The degree of protection is IP66.

* Equipped with the mechanical interlocking device and a safety switch, automatically switching the power off when the diffuser is opened.

* The explosion-proof ballast is equipped with the protective functions of open circuit, short circuit and abnormality of lamp.

* The emergency type has the indication of fault signal, the charging signal and the discharging signal.

* Through wiring possibilities.

Mounting ways:

Ceiling , chain, pendant, wall and clamp

Platform fence, platform flange, street lamp

INTENDED USE



• zone 1 & 2

• zone 21 & 22

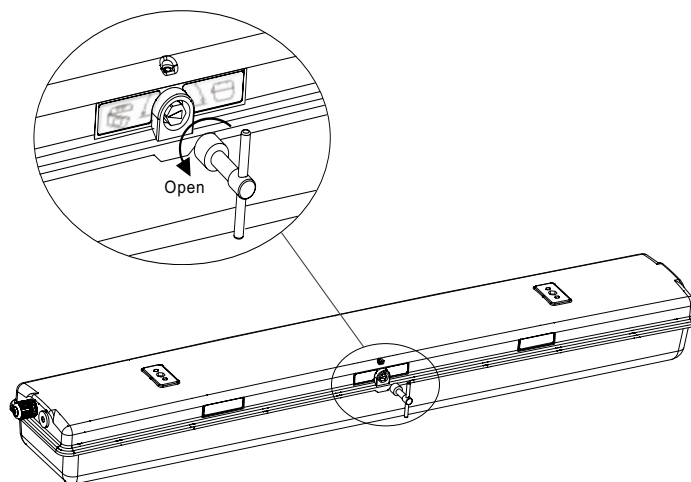
FLUORESCENT LUMINARIES

For T8 lamps, 23CC5/2x18W and 23CC6/2x36W

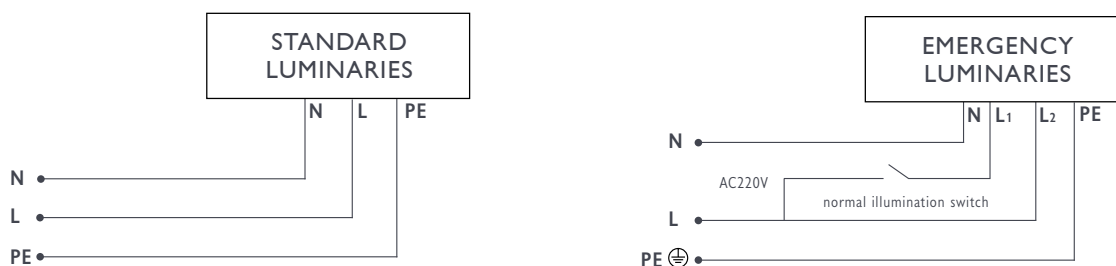
CENTRAL LOCKING SYSTEM

The luminaries has an incorporated central locking system. By use of a special spanner the diffuser can be opened and the power to both normal and emergency light is switched off.

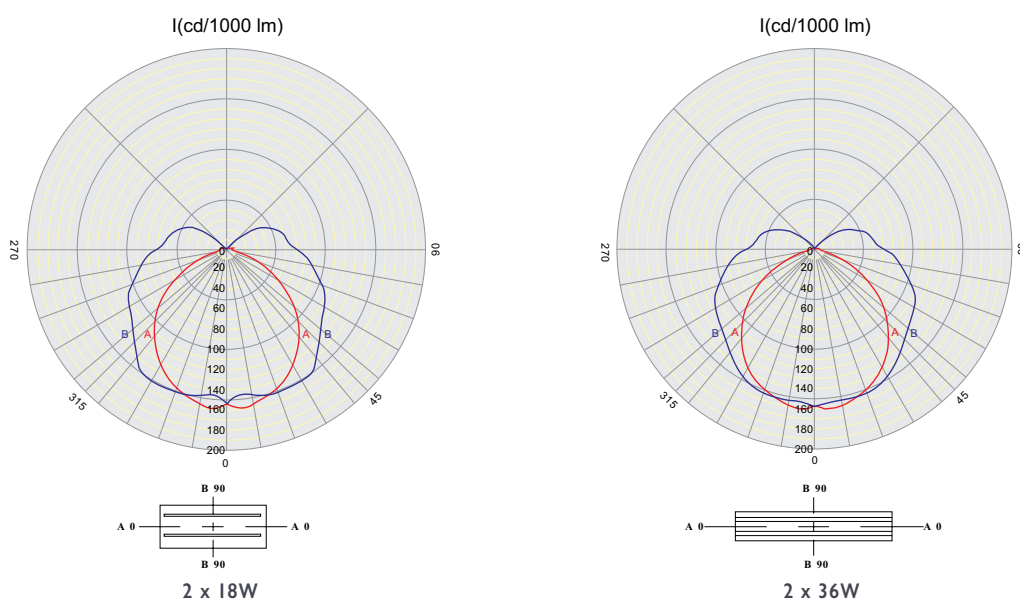
The interlocking system securing that power can only be switched on again when the diffuser is locked again and the locking mechanism is closed by the spanner.



CIRCUIT DIAGRAM - AC SUPPLY

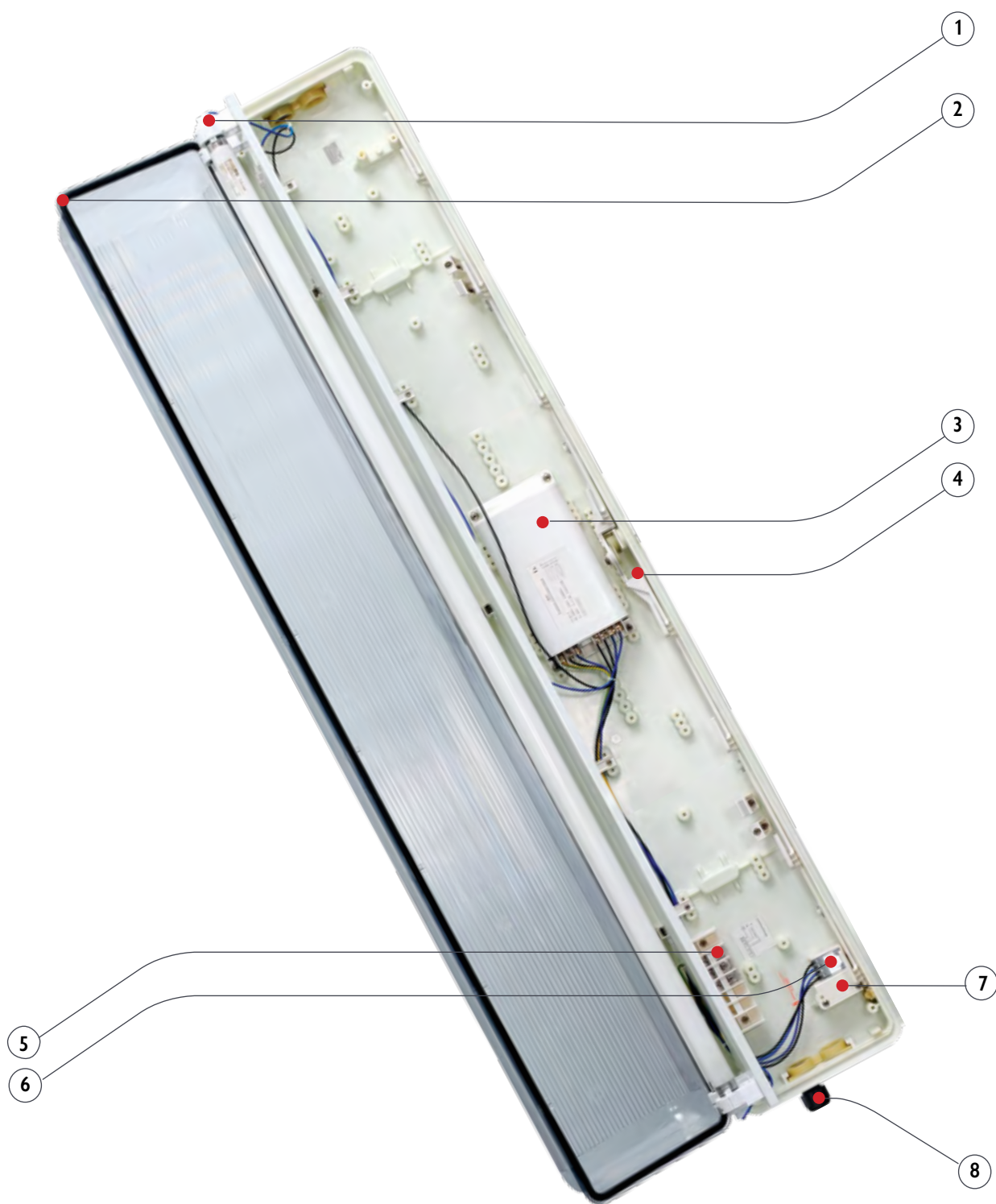


LUMINOUS INTENSITY DISTRIBUTION CURVE



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For T8 lamps, 23CC5/2x18W and 23CC6/2x36W



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FEATURES FOR NORMAL LUMINARIES



1. Ex e II lampholders (Two-pin), G13.



2. The Ex e enclosure has a foam gasket to ensure the protection degree of IP66.



3. Electronically ballast ensuring high performance and long life time.



4. Central locking system enabling easy and quick opening of the dif-fuser for installation or relamping.



5. Ex e IIC, screw terminal`s list, also for through wiring.



6. Ex de IIC interlock switch, disconnect all poles to the ballast.



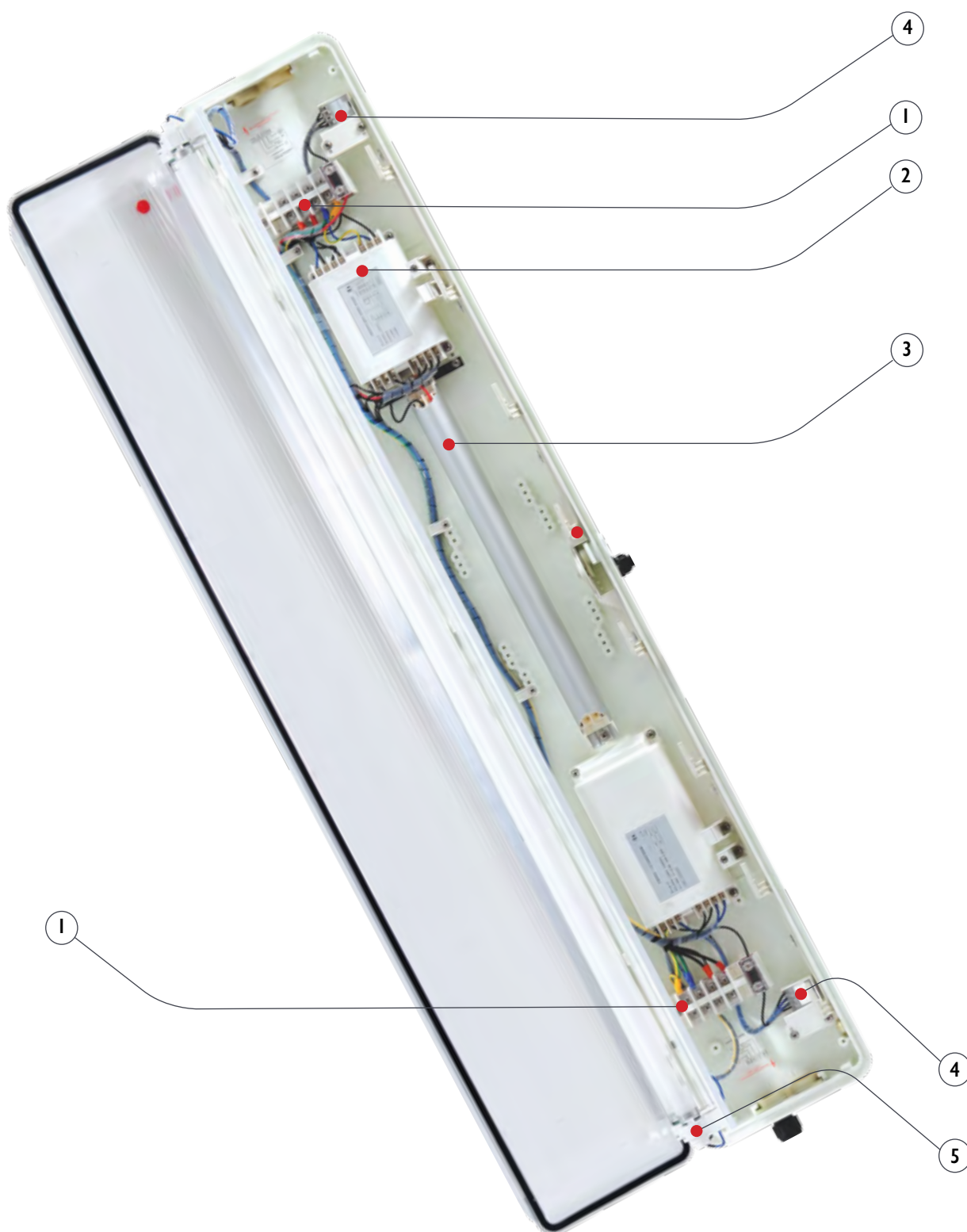
7. Interlock switch mechanism, switching off the power when dif-fuser is opened.



8. Standard polyamide Ex e glands and plugs

FLUORESCENT LUMINARIES

For T8 and emergency lamps , 23CC5/2x18W and 23CC6/2x36W



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For T8 and emergency lamps , 23CC5/2x18W and 23CC6/2x36W

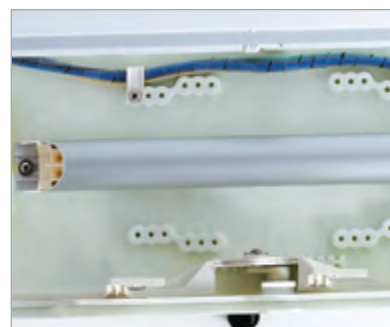
ADDITIONAL FEATURES FOR EMERGENCY LUMINARIES



1. 2 Ex e IIC, screw terminal's list, also for through wiring.



2. Full electronically inverter ensuring emergency light in case of power failure.



3. Battery package ensuring -120 min backup light in emergency mode.



4. 2 inter lock switches, disconnect all poles to ballast and inverter when diffuser is opened.



5. LED status light giving status for the emergency system.

FLUORESCENT LUMINARIES

For T8 lamps, 23CC5/2x18W and 23CC6/2x36W



23CC5
2x18W



23CC6
2x36W

MAIN TECHNICAL DATA

EX CODE	• II 2GD, Ex deq IIC T4 Gb	Ex tD A21 T 80°C (without emergency function or fuse)
	• II 2GD, Ex deqmb IIC T4 Gb	Ex tD A21 T 80°C (with emergency function or fuse)
AMBIENT TEMPERATURE	• $-25^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$	
POWER FACTOR	• $\lambda > 0.98$	
DEGREE OF PROTECTION	• IP66	
RATED VOLTAGE	• AC230V	AC110 ~240V ($\pm 10\%$) 50/60Hz
ENERGY EFFICIENCY INDEX	• EEI=A2	
TERMINALS	• L N	PE, each terminal 2x1.5-10mm ²
STANDARDS	• EN60079-0	EN60079-1 EN60079-5 EN60079-7 EN60079-18
	EN61241-0	EN61241-1
CABLE ENTRY	• 1xM25x1.5 cable gland	
	• 2xM25x1.5 plugs	
CERTIFICATE	• DNV I2 ATEX I2371	

INTENDED USE



- zone 1 & 2
- zone 21 & 22

ORDER SPECIFICATIONS

CODE OF LAMPHOLDER	POWER	CURRENT	WEIGHT	TYPE KEY
G13 Two-pin lampholder	2 x 18W	max 0.2A	5 kg	23CC / 2 x18 W - <input type="text"/> - B + <input type="text"/>
	2 x 36W	max 0.39A	7.9 kg	23CC / 2 x36 W - <input type="text"/> - B + <input type="text"/>
<div>1 - AC110 ~ 240V</div> <div>NO - AC230V</div>				

Code of cable gland

Order No. of mounting accessories , see page I2-I4

CODE	SPECIFICATIONS	CABLE DIAMETER
B	1 of M25x1.5 cable gland of polyamide, two M25 x 1.5 stopping plugs of polyamide.	Φ 8-17mm
C	1 of M25 x 1.5 cable gland of metal, two M25 x 1.5 stopping plugs of polyamide.	Φ 8-17mm
D	2 of M25x1.5 cable gland of polyamide, one M25 x 1.5 stopping plug of polyamide.	Φ 8-17mm
E	2 of M25 x 1.5 cable glands of metal, one M25 x 1.5 stopping plug of polyamide.	Φ 8-17mm

FLUORESCENT LUMINARIES

Emergency version T8 lamps, 23CC5-, 2x18W and 23CC6-, 2x36W



MAIN TECHNICAL DATA

EX CODE	• II 2GD, Ex deqmb IIC T4 Gb	Ex tD A21 T 80°C
AMBIENT TEMPERATURE	• - 25°C ≤ Ta ≤ 40°C	
POWER FACTOR	• λ > 0.98	
DEGREE OF PROTECTION	• IP66	
RATED VOLTAGE	• AC230V	AC110 ~240V (± 10%) 50/60Hz
RECHARGING TIME	• 24 h	
EMERGENCY STARTING TIME	• 0.1 (S)	
EMERGENCY ILLUMINATING TIME	• > 120 (min)	
ENERGY EFFICIENCY INDEX	• EEI=A2	
TERMINALS	• L 1 L2 L N	PE, each terminal 2x1.5-10mm²
STANDARDS	• EN60079-0 EN60079-1 EN60079-5 EN60079-7 EN60079-18	
	EN61241-0 EN61241-1	
CABLE ENTRY	• 1xM25x1.5 cable gland	
	• 2xM25x1.5 plugs	
CERTIFICATE	• DNV I2 ATEX 1237I	

INTENDED USE



- zone 1 & 2
- zone 21 & 22

ORDER SPECIFICATIONS

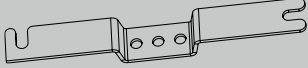


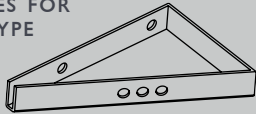
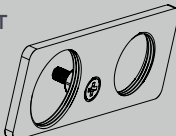
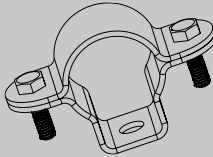
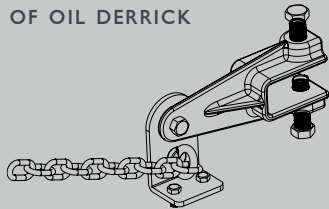
CODE OF LAMPHOLDER	NORMAL ILLUMINATION	EMERGENCY ILLUMINATION	WEIGHT	TYPE KEY
G13 Two-pin lampholder	2 x 18W	1 x 18W	6.8 kg	23CC / 2 x18 W - <input type="text"/> YJ-B + <input type="text"/>
	2 x 36W	1 x 36W	9.9 kg	23CC / 2 x36 W - <input type="text"/> YJ-B + <input type="text"/>
1 - AC110 ~ 240V				Code of cable gland
NO - AC230V				
Order No. of mounting accessories, see page I2-I4				

CODE	SPECIFICATIONS	CABLE DIAMETER
B	1 of M25x1.5 cable gland of polyamide, two M25 x 1.5 stopping plugs of polyamide.	Φ 8-17mm
C	1 of M25 x 1.5 cable gland of metal, two M25 x 1.5 stopping plugs of polyamide.	Φ 8-17mm
D	2 of M25x1.5 cable gland of polyamide, one M25 x 1.5 stopping plug of polyamide.	Φ 8-17mm
E	2 of M25 x 1.5 cable glands of metal, one M25 x 1.5 stopping plug of polyamide.	Φ 8-17mm

FLUORESCENT LUMINARIES

Accessories for 23CC5/2x18W and 23CC6/2x36W

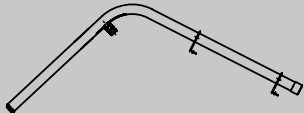

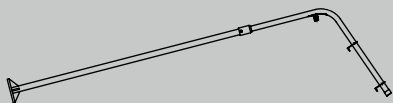
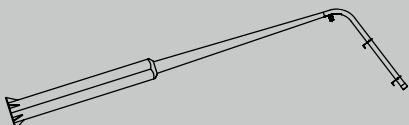
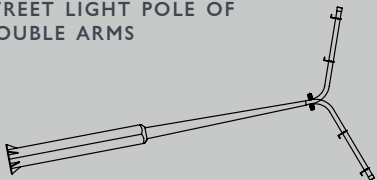
MOUNTING ACCESSORIES

SUPPORT FOR CEILING TYPE 	<ul style="list-style-type: none"> ● MATERIAL: Steel with galvanized surface 	UNIT SET	TYPE KEY D621
	<ul style="list-style-type: none"> ● MATERIAL: 304 stainless steel 	SET	D621/304
ACCESSORIES FOR PENDANT TYPE 	<ul style="list-style-type: none"> ● Φ 7 Mounting holes for user to mount 	UNIT SET	TYPE KEY D622
ACCESSORIES FOR CHAIN TYPE 	<ul style="list-style-type: none"> ● M8 Expansion suspension hook bolt for user to mount 	UNIT SET	TYPE KEY D623
ACCESSORIES FOR BRACKET TYPE 	<ul style="list-style-type: none"> ● M8 bolt for user to mount ● MATERIAL: Steel with sprayed polyamide surface 	UNIT SET	TYPE KEY D624
EARTHING NUT 	<ul style="list-style-type: none"> ● Metal earthing nut 2-M25 x 1.5 	UNIT SET	TYPE KEY D8714/2-M25
ACCESSORIES FOR CLAMP TYPE M8 BOLT MOUNTING 	<ul style="list-style-type: none"> ● G1¼" Φ 42~45mm 	UNIT SET	TYPE KEY J200
	<ul style="list-style-type: none"> ● MATERIAL: Steel with galvanized surface 		
	<ul style="list-style-type: none"> ● G1¼" Φ 42~45mm 	SET	J200/304
	<ul style="list-style-type: none"> ● MATERIAL: Stainless steel 		
	<ul style="list-style-type: none"> ● G1½" Φ 47~50mm 	SET	J300
	<ul style="list-style-type: none"> ● MATERIAL: Steel with galvanized surface 		
	<ul style="list-style-type: none"> ● G1½" Φ 47~50mm 	SET	J300/304
	<ul style="list-style-type: none"> ● MATERIAL: Stainless steel 		
	<ul style="list-style-type: none"> ● G2" Φ 59~62mm 	SET	J400
	<ul style="list-style-type: none"> ● MATERIAL: Steel with galvanized surface 		
	<ul style="list-style-type: none"> ● G2" Φ 59~62mm 	SET	J400/304
	<ul style="list-style-type: none"> ● MATERIAL: Stainless steel 		
MOUNTING BRACKET OF OIL DERRICK 	<ul style="list-style-type: none"> ● Use for bracket type mounting type, fitted with anti-slip chain, regulatable angle 	UNIT SET	TYPE KEY D8730/1

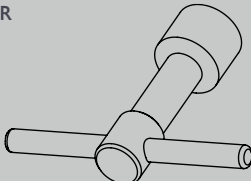
FLUORESCENT LUMINARIES

Spare parts and Accessories for 23CC5/2x18W and 23CC6/2x36W

MOUNTING ACCESSORIES

LAMP POLE OF BEND ROD TYPE 	<ul style="list-style-type: none">Used for 18W fluorescent light fittings	UNIT SET	TYPE KEY D8709/1
	<ul style="list-style-type: none">Used for 36W fluorescent light fittings	SET	D8709/2
LAMP POLE OF FENCE TYPE 	<ul style="list-style-type: none">Used for 18W fluorescent light fittings	UNIT SET	TYPE KEY D8710/1
	<ul style="list-style-type: none">Used for 36W fluorescent light fittings	SET	D8710/2
LAMP POLE OF FLANGE TYPE 	<ul style="list-style-type: none">Used for 18W fluorescent light fittings	UNIT SET	TYPE KEY D8711/1
	<ul style="list-style-type: none">Used for 36W fluorescent light fittings	SET	D8711/2
STREET LIGHT POLE OF SINGLE ARM 	<ul style="list-style-type: none">Used for 18W fluorescent light fittings	UNIT SET	TYPE KEY D8712/1
	<ul style="list-style-type: none">Used for 36W fluorescent light fittings	SET	D8712/2
STREET LIGHT POLE OF DOUBLE ARMS 	<ul style="list-style-type: none">Used for 18W fluorescent light fittings	UNIT SET	TYPE KEY D8713/1
	<ul style="list-style-type: none">Used for 36W fluorescent light fittings	SET	D8713/2

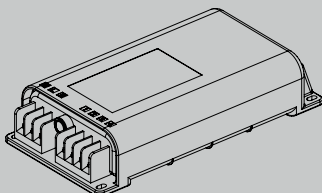
SPARE PARTS

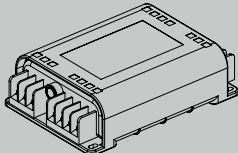
M8/SW13 SLEEVE SPANNER 	<ul style="list-style-type: none">Used for 23CC luminaries	UNIT SET	TYPE KEY D601
	<ul style="list-style-type: none">MATERIAL: Steel with galvanized surface		


FLUORESCENT LUMINARIES

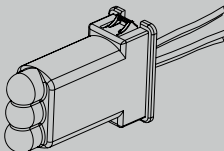
Spare parts for 23CC5/2x18W and 23CC6/2x36W

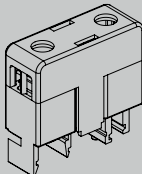
SPARE PARTS CONTINUES

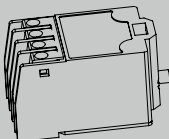
BALLAST MODULE		UNIT		TYPE KEY
	• 2x18W	• AC230V	PIECE	23CC/2 x 18W
	• Used for T8 energy saving type fluorescent light fittings	• AC110~240V	PIECE	23CC/2 x 18W-1
	• TYPE OF PROTECTION: Ex eq IIc Gb			
	• 2x36W	• AC230V	PIECE	23CC/2 x 36W
	• Used for T8 energy saving type fluorescent light fittings	• AC110~240V	PIECE	23CC/2 x 36W-1
	• TYPE OF PROTECTION: Ex eq IIc Gb			

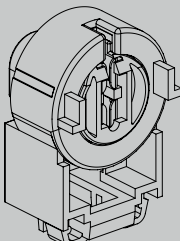
INVERTER MODULE		UNIT		TYPE KEY
	• EMERGENCY POWER:1x18W	• AC230V	PIECE	23CC/1x18W YJ
	• TYPE OF PROTECTION: Ex eq IIc Gb	• AC110~240V	PIECE	23CC/1x18W-1 YJ
	• EMERGENCY POWER:1x36W	• AC230V	PIECE	23CC/1x36W YJ
	• TYPE OF PROTECTION: Ex eq IIc Gb	• AC110~240V	PIECE	23CC/1x36W-1 YJ

BATTERY MODULE		UNIT		TYPE KEY
	• TYPE OF PROTECTION: Ex e II, 4.5Ah/7.2V		SET	23CC/4.5Ah 7.2V
	• 2x36W			
	• TYPE OF PROTECTION: Ex e II, 4.5Ah/6V		SET	23CC/4.5Ah 6V
	• 2x18W			

EMERGENCY INDICATOR MODULE		UNIT		TYPE KEY
	• TYPE OF PROTECTION: Ex mb II Gb		SET	23CC/I
	• Three colors of LED: red, yellow, green			

FUSE MODULE		UNIT		TYPE KEY
	• TYPE OF PROTECTION: Ex mbe II Gb, 0.8A (for normal light circuit)		PIECE	23CC/T 0.8A
	• TYPE OF PROTECTION: Ex mbe II Gb, 6.3A (for emergency circuit)		PIECE	23CC/T 6.3A

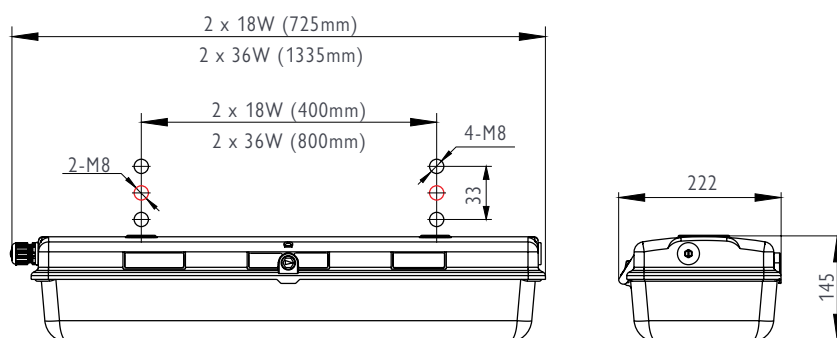
ISOLATION SWITCH MODULE		UNIT		TYPE KEY
	• TYPE OF PROTECTION: Ex de IIC		PIECE	23CC-1
	• CONTACT: 2NC (2NC)			

LAMPHOLDER		UNIT		TYPE KEY
	• G13 lampholder, used for T8 fluorescent lamp.		PIECE	23CC/G13
	• TYPE OF PROTECTION: Ex e II			

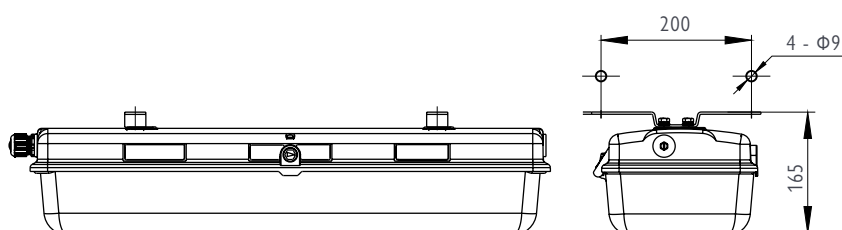
FLUORESCENT LUMINARIES

Dimension and mounting details for 23CC5/2x18W and 23CC6/2x36W

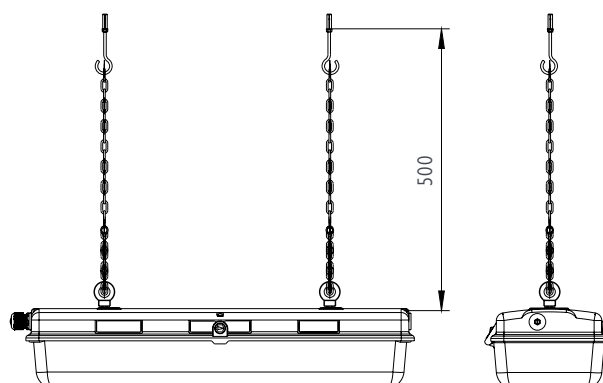
MOUNTING WAYS AND OUTLINE DIMENSIONS:



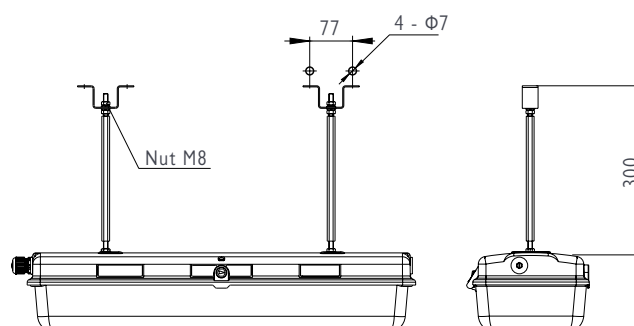
CEILING TYPE »



CHAIN TYPE »



PENDANT TYPE »

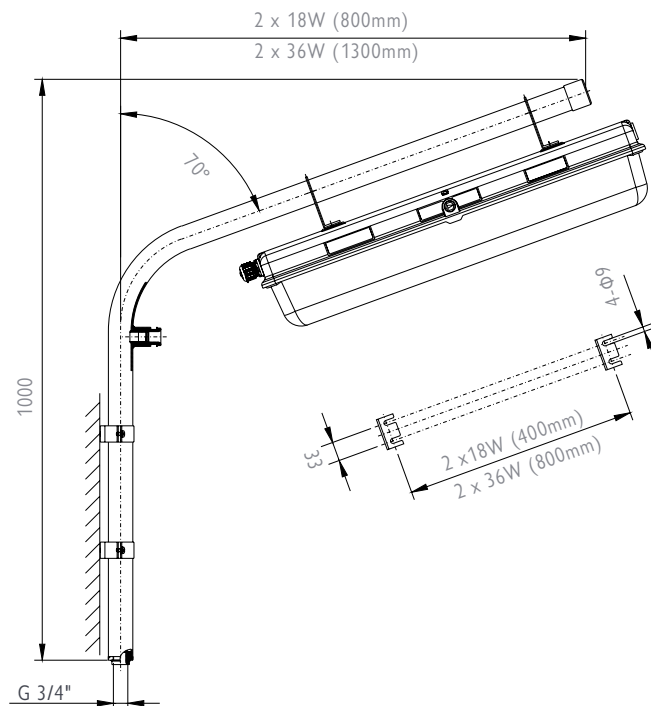


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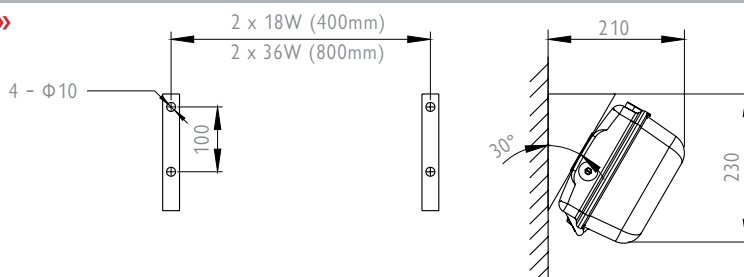
For T8 lamps, 23CC5/2x18W - 23CC6/2x36W

MOUNTING TYPES AND OUTLINE DIMENSIONS:

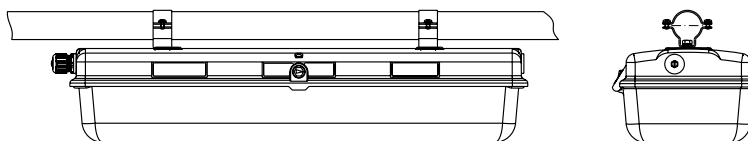
BEND POLE TYPE »



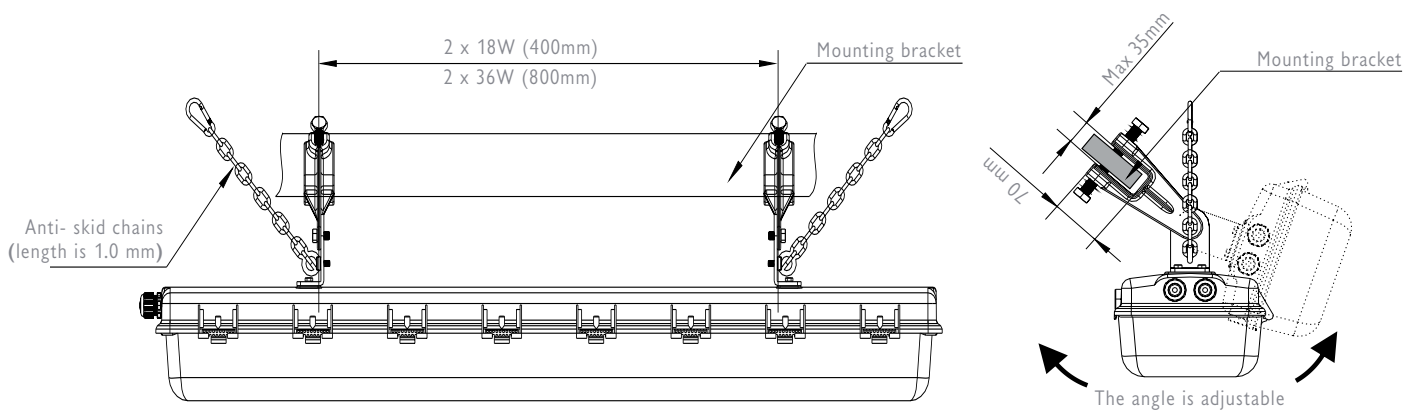
BRACKET TYPE »



CLAMP TYPE »



BRACKET TYPE »

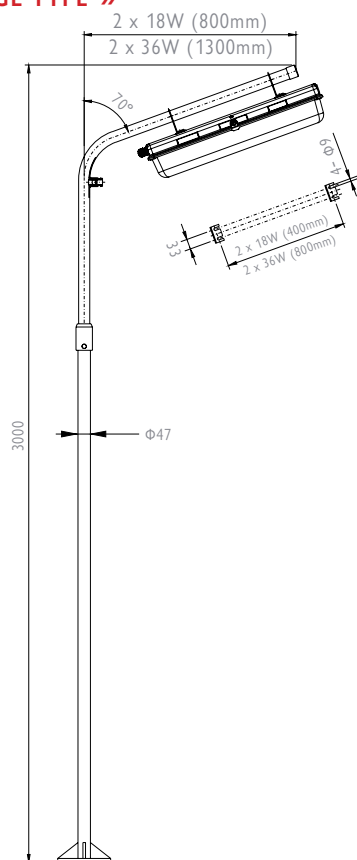


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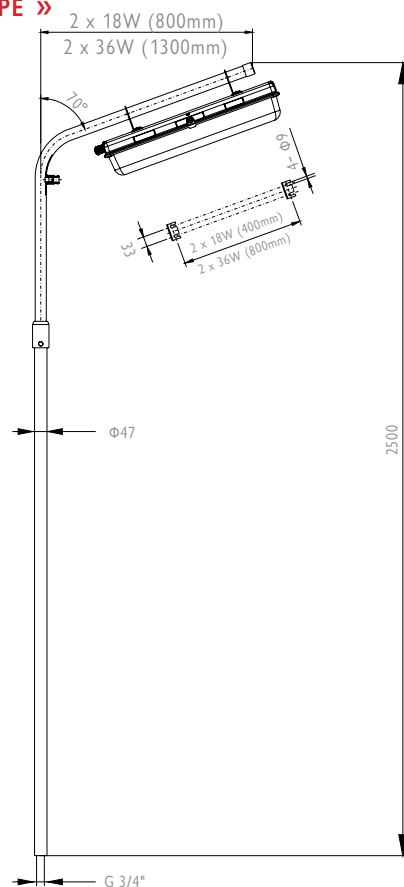
For T8 lamps, 23CC5/2x18W - 23CC6/2x36W

MOUNTING WAYS AND OUTLINE DIMENSIONS:

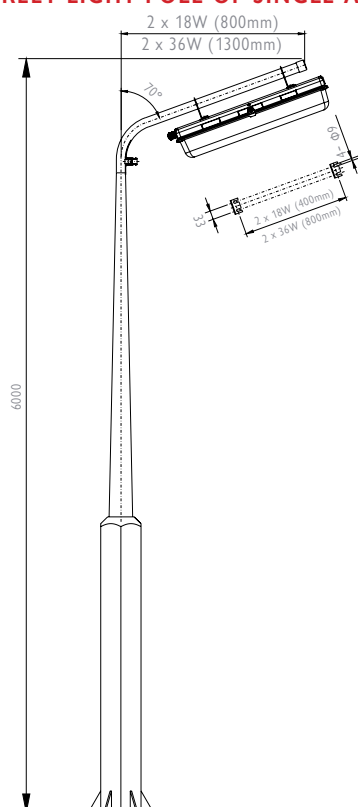
FLANGE TYPE »



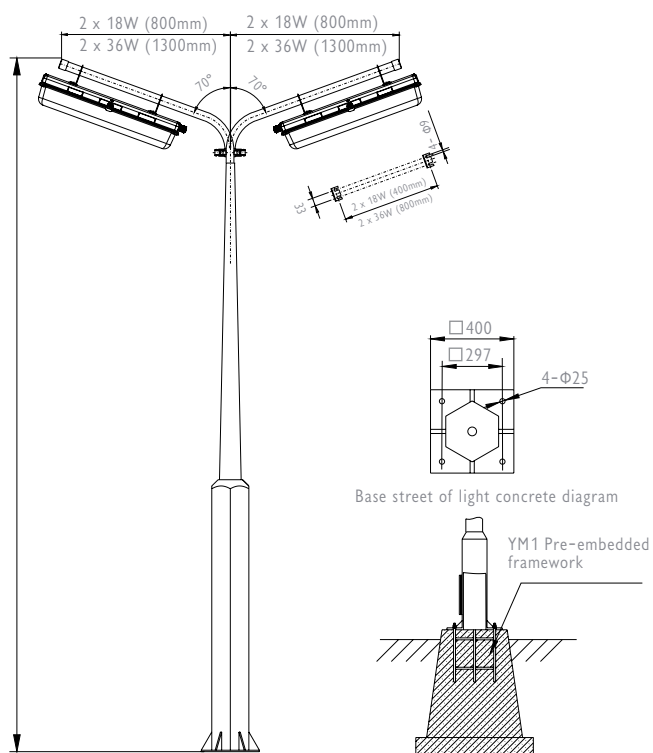
FENCE TYPE »



STREET LIGHT POLE OF SINGLE ARM »



STREET LIGHT POLE OF DOUBLE ARMS »



Ex-tech Industrial Group

A brief introduction

Ex-tech has since the establishment early 1991 developed, produced and delivered solutions and conversions for products, lifting equipment and machinery being installed in hazardous areas. Since then the Ex-tech group of companies has in cooperation with strategic partners developed a complete range of Ex products and solutions for hazardous areas, national and international.

Priority on R&D and highly skilled engineers always searching for improvements, smart and innovative solutions in close collaboration with clients and users, will secure the goal of being preferred vendor for a steadily increasing number of clients.

Advanced, complex and intelligent solutions, combined with accuracy, service level and short delivery schedules, will be the main priorities in order for Ex-tech Industrial Group to reach it's targets in the international markets.

www.ex-tech.no