

HLBY02- Series Explosion-proof Cleanliness Fluorescent Light

1 Application and Features

- Explosion protection
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Light source and power:
 - Fluorescent tube: 14W, 18W, 28W, 36W
 - LED module: 9W, 18W
- Installation method: ceiling type, embedded type
- Two types of enclosures for each type(ceiling & embedded):
 - T8 fluorescent lamp: 18WX1, 18WX2
 - T8 LED lamp: 9WX1, 9WX2
 - T8 fluorescent lamp: 36WX1, 36WX2
 - T8 fluorescent lamp: 28WX1, 28WX2
 - T8 LED lamp: 18WX1, 18WX2
- Fluorescent tube or LED module are equipped when delivery.
- LED light source and LED power of explosion-proof LED tube are integrated structure.
- T8/T5 tube come with electronic ballast, power factor ≥ 0.95 , with "EOL" protection function of constant current, open circuit, short circuit etc.
- Steel plate or stainless steel enclosure.
- Tempered glass transparent cover.
- Equipped explosion-proof components used inside.
- Emergency unit can be equipped upon request.

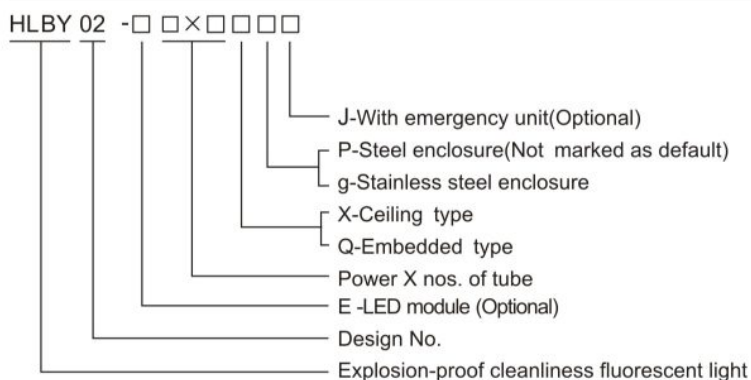


X-Ceiling type



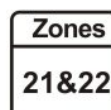
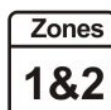
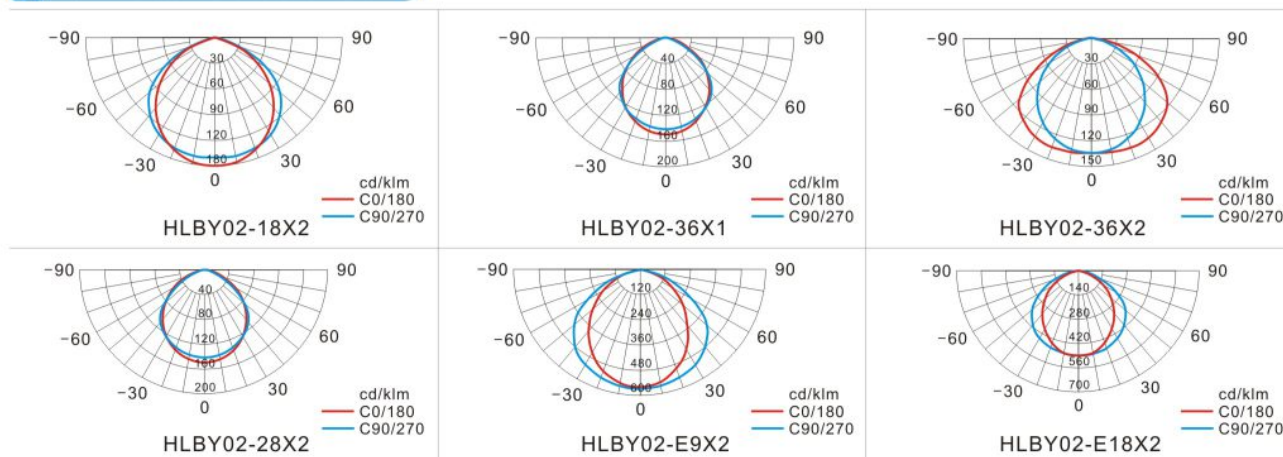
Q-Embedded type

2 Nomenclature



Note: Emergency unit power is only for a single tube.

3 Luminous Distribution Curve



4 Technical Parameter

Ex marking	Gas	Fluorescent tube	Ex e mb IIC T4 Gb						
		LED Module	Ex d e IIC T6 Gb						
		LED Module with emergency	Ex d e mb IIC T6 Gb						
	Dust	Ex tD A21 IP65 T80℃							
Conformity to standards		GB3836.1,GB3836.2,GB3836.3,GB3836.9,GB12476.1,GB12476.5							
Structure, Material	Enclosure	Bending steel plate, powder coated, white color, or bending stainless steel plate							
	Transparent cover	Tempered glass, resistant to 4J impact							
	Tube Replacing	The special hinge and quick opening structure, easy to maintenance							
	Ballast	Explosion-proof electronic ballast, wide voltage output(150~250VAC), power factor ≥0.95 with protection function of short circuit,overload,lamp aging,lamp damage,and power asymmetric of the lamp tube.							
	Explosion proof LED Module	Wide voltage input(180~265VAC)constant power output, power factor ≥0.95, with protection function of shunt, open circuits, hort circuit, etc.							
	Emergency unit	Ex emergency unit, when the power supply is off, the lamp will automatically switch to the emergency lighting state							
	Exposed fastener	Stainless steel							
Light source	Specification	T8 fluorescent tube		T5 fluorescent tube		T8 Ex LED Module			
	Power (W)	18WX1	18WX2			9WX1	9WX2		
		36WX1	36WX2	28WX1	28WX2	18WX1	18WX2		
Rated voltage		T8/T5 fluorescent tube: 150~250V AC, 50/60Hz							
		LED Module : 180~265V AC, 50/60Hz							
Degree of protection		IP65							
Ambient temperature		-20℃ ~ +40℃							
Terminal block		3×1.5 ~ 4mm ² (L+N+PE)							
Cable entries		1× ϕ 25: 1-M25×1.5							
Available cable outer diameter (mm)		ϕ 10 ~ ϕ 14 (mm)							
Emergency unit technical parameters	Emergency unit	Dedicated emergency controller and battery pack, with overcharge and overdischarge protection functions							
	Emergency power (W)	T8 fluorescent tube: 18WX1,36WX1 T5 fluorescent tube: 28WX1 T8 LED Module : 9WX1,18WX1							
	Emergency starting time	0.3s							
	Charging time	24h							
	Emergency lighting time	90min							

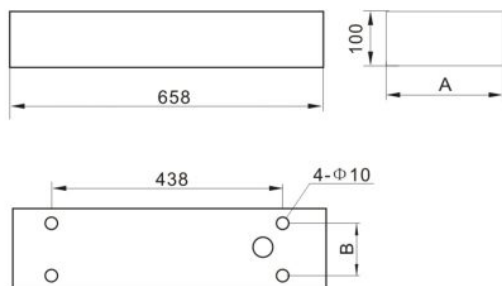
5 Selection Table

T8 LED		T8 fluorescent tube		T5 fluorescent tube	
Type	Weight (kg)	Type	Weight (kg)	Type	Weight (kg)
HLBY02-E9X1X	5. 60	HLBY02-18X1X	6. 4	HLBY02-28X1X	9. 7
HLBY02-E9X1Q	6. 55	HLBY02-18X1Q	7. 35	HLBY02-28X1Q	11. 4
HLBY02-E9X2X	5. 85	HLBY02-18X2X	6. 45	HLBY02-28X2X	9. 5
HLBY02-E9X2Q	6. 80	HLBY02-18X2Q	7. 40	HLBY02-28X2Q	11. 2
HLBY02-E18X1X	10. 15	HLBY02-36X1X	9. 30		
HLBY02-E18X1Q	11. 1	HLBY02-36X1Q	11. 00		
HLBY02-E18X2X	10. 50	HLBY02-36X2X	9. 80		
HLBY02-E18X2Q	11. 45	HLBY02-36X2Q	11. 50		

6 Outline and Installation Dimension (Dimensions in mm)

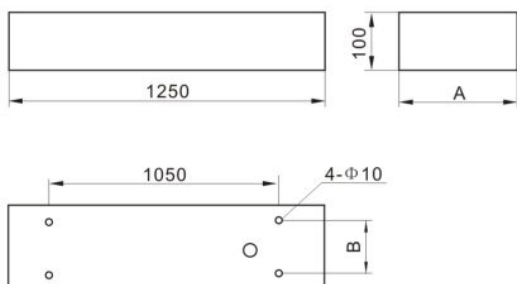
● Ceiling type (x)

Specification	Size(mm)	
	A	B
(1~2)X14W(T5)	175	88
(1~2)X18W(T8)		
(1~2)X9W(LED)		



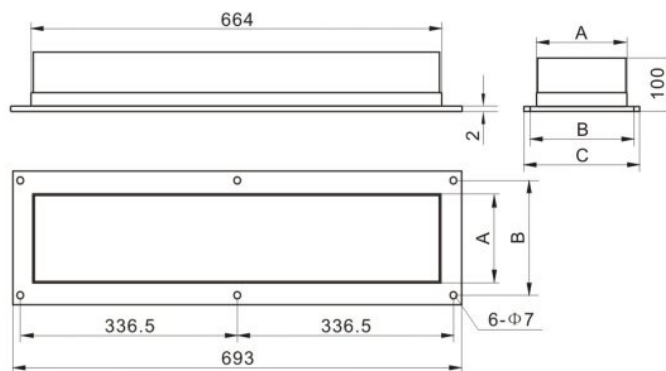
● Ceiling type (x)

Specification	Size(mm)	
	A	B
(1~2)X28W(T5)	175	88
(1~2)X36W(T8)		
(1~2)X9W(LED)		



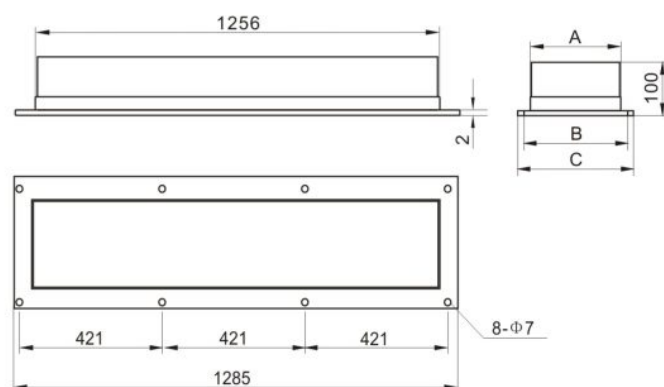
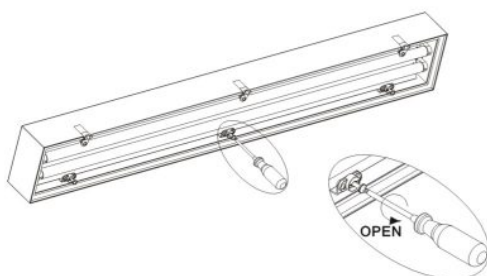
● Embedded type (Q)

Specification	Size(mm)		
	A	B	C
(1~2)X14W(T5)	179	212	227
(1~2)X18W(T8)			
(1~2)X9W(LED)			



● Embedded type (Q)

Specification	Size(mm)		
	A	B	C
(1~2)X28W(T5)	179	212	227
(1~2)X36W(T8)			
(1~2)X9W(LED)			

**7 Special structure of fastening glass**

Turn clockwise with a cross screwdriver to lock the glass cover,
Turn counter clockwise to open.

CAUTION: Forbidden to open the lid when charged