

# QTEX Series

Explosion proof LED tower lights with flame proof housing



QTEX Self mount



QTEX Wall mount

## PRODUCT SPECIFICATION

QTEX | QTEXB

### Materials

Lens-Tempered glass, Filter Lens-AS, Housing-Al, Reflector-Heat resistant ABS

**Ambient operating temperature**  $-40^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$

**Sound volume** Max.90dB at 1m(QTEXB)

### Explosion protection rating

IECEX - Ex db II C T6 Gb, IP66

Ex tb IIIC T85°C Db, IP66

ATEX - EX II 2G Ex db II C T6 Gb, IP66

EX II 2D Ex tb IIIC T85°C Db, IP66

KCs - Ex d II C T6, IP66

**Certificates** IECEX, ATEX, KCs, TIIS(QTEXB only)

**Cable entry** 3/4" NPT 2WAY

- Explosion proof LED tower lights with Ex d IIC rating can be used in explosive gas environments
- Excellent distance visibility by using a special reflector to aggregate the light from the LED filament
- Ø80 LED tower light mounted inside the flame proof housing
- Aluminum housing provides excellent durability
- Long-lasting high intensity LED light source
- Terminal box located inside the housing for easy power wiring
- Direct mount type and wall mount type available depending on application needs.

## QTEX Explosion Proof LED Tower Lights with Flame Proof Housing

| Model number              | Layer | Voltage    | Certificates                                                                                                                                                                                                                                                            | Weight | Color                                                      |
|---------------------------|-------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------|
| QTEX<br>(Steady/Flashing) | 1     | DC12V      | <br><br> | 4.01kg | ● R-Red                                                    |
|                           |       | DC24V      |                                                                                                                                                                                                                                                                         | 4.01kg |                                                            |
|                           |       | AC95V-230V |                                                                                                                                                                                                                                                                         | 4.02kg |                                                            |
|                           | 2     | DC12V      |                                                                                                                                                                                                                                                                         | 4.15kg | ● R-Red<br>● A-Amber<br>● G-Green                          |
|                           |       | DC24V      |                                                                                                                                                                                                                                                                         | 4.15kg |                                                            |
|                           |       | AC95V-230V |                                                                                                                                                                                                                                                                         | 4.16kg |                                                            |
|                           | 3     | DC12V      |                                                                                                                                                                                                                                                                         | 4.31kg | ● R-Red<br>● A-Amber<br>● G-Green                          |
|                           |       | DC24V      |                                                                                                                                                                                                                                                                         | 4.31kg |                                                            |
|                           |       | AC95V-230V |                                                                                                                                                                                                                                                                         | 4.32kg |                                                            |
|                           | 4     | DC12V      |                                                                                                                                                                                                                                                                         | 4.46kg | ● R-Red<br>● A-Amber<br>● G-Green<br>● B-Blue              |
|                           |       | DC24V      |                                                                                                                                                                                                                                                                         | 4.46kg |                                                            |
|                           |       | AC95V-230V |                                                                                                                                                                                                                                                                         | 4.47kg |                                                            |
|                           | 5     | DC12V      |                                                                                                                                                                                                                                                                         | 4.61kg | ● R-Red<br>● A-Amber<br>● G-Green<br>● B-Blue<br>○ W-White |
|                           |       | DC24V      |                                                                                                                                                                                                                                                                         | 4.61kg |                                                            |
|                           |       | AC95V-230V |                                                                                                                                                                                                                                                                         | 4.62kg |                                                            |

### Light source current(based on 1 layer)

| Voltage                       | DC12V | DC24V | AC95V-230V |
|-------------------------------|-------|-------|------------|
| Light source current(1 layer) | 80mA  | 60mA  | Max.55mA   |



## QTEXB Built-in Siren Buzzer Type Explosion Proof LED Tower Lights with Flame Proof Housing

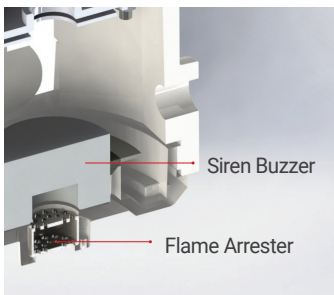
| Model number               | Layer | Voltage    | Certificates | Weight | Color                              |
|----------------------------|-------|------------|--------------|--------|------------------------------------|
| QTEXB<br>(Steady/Flashing) | 1     | DC12V      | <br><br><br> | 4.11kg | ● R-Red                            |
|                            |       | DC24V      |              | 4.11kg |                                    |
|                            |       | AC95V-230V |              | 4.12kg |                                    |
|                            | 2     | DC12V      |              | 4.25kg | ● R-Red                            |
|                            |       | DC24V      |              | 4.25kg | ● A-Amber                          |
|                            |       | AC95V-230V |              | 4.26kg | ● G-Green                          |
|                            | 3     | DC12V      |              | 4.41kg | ● R-Red                            |
|                            |       | DC24V      |              | 4.41kg | ● A-Amber                          |
|                            |       | AC95V-230V |              | 4.42kg | ● G-Green                          |
|                            | 4     | DC12V      |              | 4.56kg | ● R-Red                            |
|                            |       | DC24V      |              | 4.56kg | ● A-Amber                          |
|                            |       | AC95V-230V |              | 4.57kg | ● B-Blue                           |
|                            | 5     | DC12V      |              | 4.71kg | ● R-Red                            |
|                            |       | DC24V      |              | 4.71kg | ● A-Amber                          |
|                            |       | AC95V-230V |              | 4.72kg | ● G-Green<br>● B-Blue<br>○ W-White |

- Explosion proof LED tower lights with visual & audible signal that can be used in hazardous environments
- Sound tone & volume: Siren buzzer, Max.90dB at 1m

### Light source/buzzer current(based on 1 layer)

| Voltage                       | DC12V | DC24V | AC95V-230V |
|-------------------------------|-------|-------|------------|
| Light source current(1 layer) | 80mA  | 60mA  | Max.55mA   |
| Buzzer current                | 60mA  | 120mA | Max.80mA   |

### Explosion proof structure for buzzer model



#### · FLAME ARRESTER

A flame arrester(also called a deflagration arrester) functions by absorbing the heat from a flame front traveling at sub-sonic velocities, thus dropping the burning gas/air mixture below its auto-ignition temperature: consequently, the flame cannot survive. The heat is absorbed through channels (passages) designed into an element.



QTEXB Self mount



QTEXB Wall mount

### Ordering Specification

| QTEX           | 3         | 12                | RAG       | IECEx            |
|----------------|-----------|-------------------|-----------|------------------|
| [Model number] | [Layer]   | [Voltage]         | [Color]   | [Certificates]   |
| QTEX           | 1-1Layer  | 12-DC12V          | ● R-Red   | IECEx            |
| QTEXB          | 2-2Layers | 24-DC24V          | ● A-Amber | ATEX             |
|                | 3-3Layers | 95/230-AC95V-230V | ● G-Green | KCs              |
|                | 4-4Layers |                   | ● B-Blue  | TIIS(QTEXB only) |
|                | 5-5Layers |                   | ○ W-White |                  |

### Customization

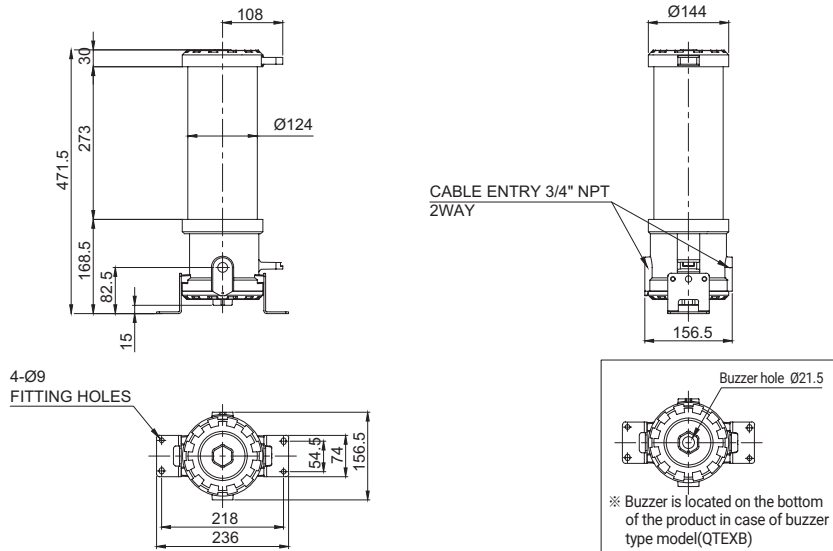
- Explosion proof cable gland attached type available (Standard type does not come with explosion proof cable gland)
- Cable entry 1/2"NPT, M20X1.5, M25X1.5, 1/2"PF(KCs only), 3/4"PF(KCs only)

## QTEX Series

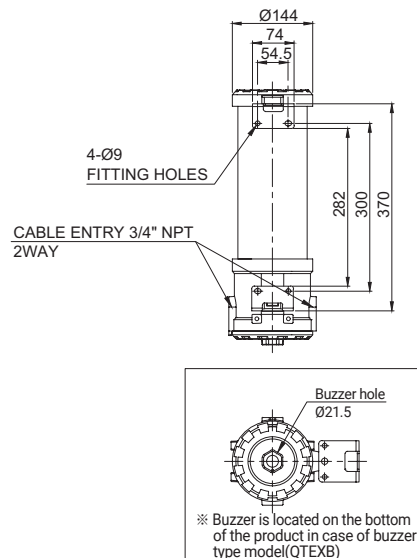
### Technical Diagram

Units: mm

#### · QTEX / QTEXB-Self mount



#### · QTEX / QTEXB-Wall mount



### Cautions in using explosion proof tower lights

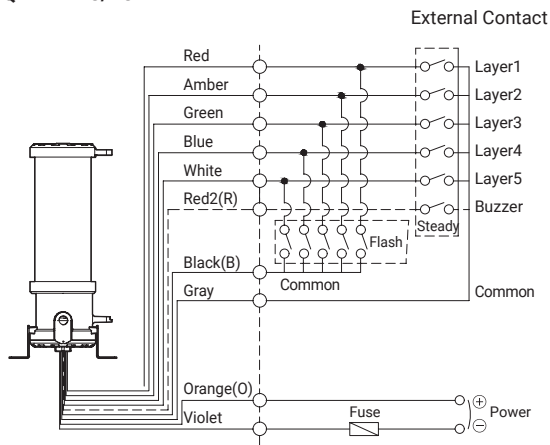
- Explosion proof products should be maintained by explosion proof regulation, please do not disassemble, assemble, modify or repair arbitrarily. In case disassembly is required for wiring or repair, structures such as the contact parts should maintain the same initial condition that we provided.
- Cable gland must be used in explosion proof certified products which satisfy the T6 temperature rating and IP66 protection rating.

## Wiring Instructions

- QTEX / QTEXB wiring with transistors and External Contacts.
- In case of wiring with transistors, please use PNP transistors and wiring exactly following below technical diagram.

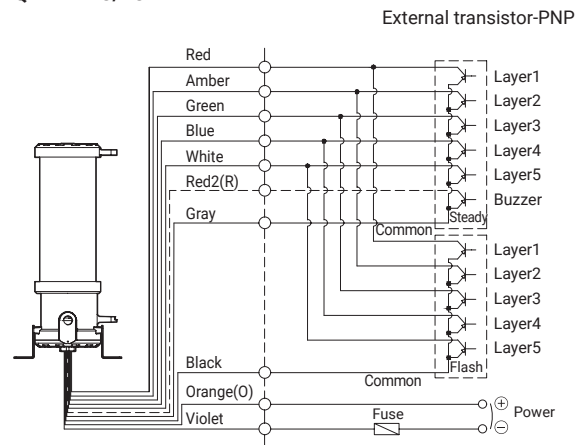
### External Contacts type

QTEX-DC/AC  
QTEXB-DC/AC

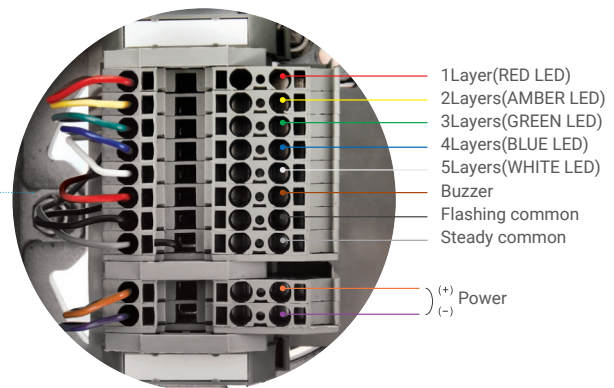


### Transistor type

QTEX-DC/AC  
QTEXB-DC/AC



## Terminal Wiring Information



QTEX series consists of a blocked terminal which is convenient for internal wiring of the terminal box. Please refer to technical diagram for detailed Wiring Instructions.