Shanghai Sansi Electronic Engineering Co., Ltd.
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Email: overseas@sansitech.com
Since its founding in 1993, SANSI has been dedicated to technological innovation in a wide range of LED applications, from commercial displays to residential lighting. With over 400 in-house engineers, 2,000 employees and 3 advanced factories, SANSI has reached over 40 countries on 5 continents. SANSI utilizes 230,000 square meters of space for manufacturing, sales and customer service to support their commercial and residential projects. Having successfully launched over 10,000 cutting-edge projects including New York Times Square, Hong Kong Zhuhai-Macau Bridge, the Chinese Space Program, Xichang Satellite Launch Center, Shanghai World Expo and the Hangzhou G20 Summit. SANSI upholds its core values of innovation, sustainability and commitment. These have allowed SANSI to maintain the path as an industry leader.

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Patented Ceramic LED Technology

Patented LED Technology, No PCB, Energy Efficient

Ceramic dissipates heat more efficiently than aluminum. SANSI LED chips are mounted directly onto the ceramic body, making each unit PCB free and ensuring faster heat dissipation.

The SANSI patented ceramic heat dissipation technology (CHDT) ensures fast heat dissipation and long-lasting performance. The LED chip(s) for SANSI’s LED tunnel lights are both PCB and thermal adhesive free.

By comparing with the aluminum material, the ceramic is more corrosive resistant for better protection against moisture and air pollution.

SANSI’s Independent Pixel Heat Sink Technology provides both even and fast heat dissipation for each LED light pixel.

SANSI develops LED street light, tunnel light, security light, flood light and high bay light based on the XQV2 ceramic pixel platform. It creates value and improves productivity.

SANSI XQV2 Ceramic Pixel Platform

High temperature directly affects the luminous efficacy and light decay of LED chips. SANSI’s ceramic heat dissipation system provides better performance and prolongs the lifespan of the tunnel and underpass light.

863 LED lighting key research results: Reflective LED Technology

SANSI actively undertake major projects subject to research achievements of the national 863 program, which has formed our own patented LED technology. Lambert light distribution and three-dimensional reflective cavity designs, further improve the efficiency of light reflection and the light uniformity. It provides the driver superior lighting quality and safety with higher brightness and no glare.

Project Gallery

Times Square, New York, US
Beijing Aerospace Control Center, China
Shanghai World Expo, China
Beijing Zuoan Men/Hangzhou G20/Jiangsu Hongze
Hongkong-Zhuhai-Macau Bridge, China
Metro Line 2, Shenzhen, China
Beijing Zusan Men/Hangzhou G20/Jiangsu Hongze
Shanghai World Expo, China
Beijing Aerospace Control Center, China
Hongkong-Zhuhai-Macau Bridge, China
Metro Line 2, Shenzhen, China

Other manufacturer

SANSI
(Patent No: CN201721133174.0)
C0810-XC Reflective LED Tunnel Light (Reflective-type)
Cost-efficient and high performance LED tunnel lighting

**Applications**
- Urban tunnels
- Highway tunnels

**Technical Parameters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Wattage</th>
<th>Power Factor</th>
<th>Efficacy</th>
<th>CCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0810-XC</td>
<td>90-264VAC</td>
<td>30/40W/50W/60W/70W/80W</td>
<td>0.95</td>
<td>110 lm/w</td>
<td>4000K/5000K</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRI</th>
<th>IP Degree</th>
<th>Control Method</th>
<th>Color</th>
<th>Operating Ambient Temperature</th>
<th>Installation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>IP65</td>
<td>DALI/PWM/0-10V/RS485</td>
<td>Aluminium</td>
<td>-40℃ ~ +55℃</td>
<td>Wall mounting</td>
</tr>
</tbody>
</table>

**Dimensions (mm)**

- C0810-XC: 900mm*W184mm*H195mm
- C0810-XC-70W/80W: 1840mm*W184mm*H195mm

**Certification**
- CCC, CCCF

**High grade of transparency to ensure lighting effect and prevent glare**
- Reflective LED lighting with simple and elegant appearance.
- Reflective LED illumination, providing uniform and evenly distributed light without visible LED light source.
- Ensures light effect and effectively prevent glare with woven glass cover.

**Smart dimming and light distribution technology, more efficient**
- Improves tunnel light utilization with scientific light distribution design.
- Supports multiple intelligent dimming methods to achieve “secondary energy saving”.

**Eco-friendly and durable housing**
- Use environmental friendly materials without harmful metals.
- IP65 and durable to use.
C0810-SC
LED Tunnel Light (Reflective-type)
Recommended products for interval track and utility tunnel lighting
C0810-SC tunnel light is a new type of lighting fixture with high-brightness LEDs. The product features moisture-proof, waterproof, anti-glare, easy installation, simple disassemble and maintenance etc.

1. Softer light with high-quality LED chips
   - C0810-SC adopts high-quality LED chip, good heat dissipation, low power consumption without color difference, glare, etc.
   - The light-emitting method is reflective, ensuring uniform and soft light.

2. Independent power supply, more convenient and elegant
   - The independent power supply, which can be disassembled separately for easy maintenance.
   - The shape of the power supply is consistent with the lamp body, and the overall appearance of the lamp is consistent and effective.

3. Integrated design with emergency system
   - The lights have two types: ordinary lights and emergency lights, emergency built-in integrated design.
   - The housing is made of integrated die-cast aluminum, which is light in weight, good in heat dissipation, and has sufficient strength.
   - Simple structure, easy to install and maintain.

Technical Parameters

<table>
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<th>Input Voltage</th>
<th>Wattage</th>
<th>Efficacy</th>
<th>CCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0810-SC</td>
<td>176-264V/AC</td>
<td>5W/8W/10W/12W/16W/18W/20W/24W/30W/36W</td>
<td>100 lm/w</td>
<td>4000K/5000K</td>
</tr>
</tbody>
</table>

Dimensions (mm)

- C0810-SC-5W/8W/10W/12W/16W/18W: L340mm*W150mm*H133mm
- C0810-SC-16W/18W/20W/24W/30W/36W: L600mm*W150mm*H133mm

Applications

- Highway tunnels
- Interval tracks
- Utility tunnels

Certification

CCC, CCCF
Ceramic heat sink, reliable and durable

Adjustable color temperature, ceramic LED technology

- C0820-VC LED tunnel light is a new type luminaire with high brightness LEDs as the light source. With the combination of light environment monitoring and intelligent lighting control technology developed by SANSI, C0820-VC series is a versatile, cost-effective luminaire that meets the most stringent tunnel lighting requirements, offering the driver superior lighting quality and safety.

- Based on XQV2 ceramic pixel platform, ensuring fast heat dissipation and long-lasting performance compared with traditional lights, reliable and durable. (Patent No.: CN201721133174.0) Illumination and has an intelligent sensory system. Its an ideal choice for security.

- C0820-VC & C0820-SD Ceramic Adjustable color temperature tunnel light

Highlight

- Color temperature range from 3000K (warm light) to 6500K (cool light). The efficiency and wide choice of optics means it meets various requirements of a wide range of applications.

Highlight

- Various and highest-quality optics, flexible mounting solutions.

C0820-SD Ceramic Constant color temperature tunnel light

Ceramic heat sink, reliable and durable

- C0820-SD ceramic pixel tunnel light is a state-of-the-art LED tunnel luminaire combined with patented ceramic LED technology. It is made of the highest-quality components specifically for tunnels, thus featuring anti-corrosion, anti-acid and anti-alkali, fast heat dissipation, easy installation, easy maintenance and a long lifetime.

Technical Parameters

<table>
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<th>Wattage</th>
<th>Power Factor</th>
<th>Efficacy</th>
<th>CCT (K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0820-VC &amp; C0820-SD</td>
<td>90 ~ 264 VAC</td>
<td>45W/80W/120W/160W/250W</td>
<td>0.95</td>
<td>130±5 lm/W</td>
<td>3000K ~ 6500K (Adjustable)</td>
</tr>
</tbody>
</table>

Certification

CCC, CCCF

Self-produced patented LED technology, fast heat dissipation

- One-piece die-casting aluminum, easy to install and maintain
  - The housing is made of high-quality die-casting aluminum materials, long-lasting and durable
  - Simplified and slim structure design, easy to clean
  - Flexible mounting and connectivity

Intelligent dimming system, high energy efficiency

- Intelligent dimming system, allowing further energy consumption

Jiangluo Yajiling Tunnel, Guangdong
Dimensions (mm)

3’4” lamp plate

3’6” lamp plate

3’9” lamp plate

3’12” lamp plate

3’18” lamp plate

C0820-VC & C0820-SD Dimensions (mm)
45W: L261mm*W139mm*H153mm(3×4)
80W: L321mm*W139mm*H161mm(3×6)
120W: L428mm*W145mm*H161mm(3×9)
160W: L540mm*W145mm*H161mm(3×12)
250W: L747mm*W145mm*H161mm(3×18)

Light Distribution Curve

Applications

Traffic tunnels

Underpasses

SANSI LED tunnel lighting cases

Traffic tunnels

Jiuling Tunnel, Jiangxi

Lengshui Tunnel, Zhejiang

Wuxianmen Tunnel of Longli Lilong Expressway, Zhejiang

Zhangjia Dengshan Tunnel, Chongqing

Dalian Road Tunnel, Shanghai

Langshou Tunnel, Zhejiang

Xiaoyang Tunnel, Zhejiang

Key Cases

1. Fujian Longyan project from zhangzhou lianbao expressway to longyishangyang expressway
2. Xiamen to Chengdu Highways Bijie to Shengji Expressway
3. Wenzhou City 15 Bot Project
4. Zhuhai Airport Expressway Tunnel, Guangdong
5. Jiangmen to Luding Expressway, Guangdong
6. Chongwu to Jingsi Expressway, Guangxi
7. Zhang Autonomous Region Hechi to Baize Highway, Guangxi
8. Jingba Road Electromechanical Tunnel
9. Northeast Bypass Expressway, Guiyang
10. Anhong Expressway, Guizhou
11. Dejiang to Wuxuan Expressway, Guizhou
12. Zhijin to Nayong Highway, Guizhou
13. Sian to Jianhe Highway Tunnel, Guizhou
14. Renchi LED Tunnel, Guizhou
15. Guizhou Highway LED Lighting Project
16. Daxian Expressway LED Tunnel Lighting Project, Guizhou
17. Dushan to Pingsheng Project, Guizhou
18. Sands Expressway Tunnel
19. Guiyang to Anhong Expressway, Guizhou
20. Sanshi Expressway Tunnel
21. Guizhou Paming Expressway Project
22. Guizhou Parning Expressway Project
23. Shifang County Highway, Hubei
Among other large tunnels projects, this is an extremely unique and outstanding tunnel light environment.

—Evaluation of the lighting project of Hong Kong-Zhuhai-Macao Bridge by many experts

At 9:00 on October 23rd, 2018, Zhuhai, China.
The Hong Kong-Zhuhai-Macao Bridge, a super-engineering project that lasted nearly nine years, was officially opened to traffic under the focus of global attention. The 55-km-long, sea-crossing bridge that enjoyed the best of many worlds’ honors finally unveiled its mystery.

The LED street lights, LED tunnel lights, LED landscape lights, LED maintenance lights and LED variable information and variable message signs used in the main part of the Hong Kong-Zhuhai-Macao Bridge are provided by SANSI, a total of nearly 30,000 sets, which are one of the few landmark projects for domestic and global road and bridge lighting.

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Hong Kong-Zhuhai-Macao Bridge
Subsea Tunnel Lighting

SANSI’s high-quality LED tunnel lights use unique patented LED technology and are widely used in highway tunnels, underground passages, railway tracks and utility tunnels, which can improve the pavement conditions in the tunnel, enhance the visual enjoyment in the tunnel, and reduce driver fatigue. SANSI uses high-quality lights to escort people and improve the tunnel’s capacity to ensure safer traffic.

Key Cases

24. Macheng to Zhouzhu Expressway, Hubei
25. Yongzhou to Jishou Expressway, Hunan
26. Yongping Tunnel, Hunan
27. Yilu Highways Lighting Project, Hunan
28. Wugang to Jingzhou Expressway, Hunan
29. Hebei Expressway Jingdong Section, Jilin
30. Chuankou to Dehejia, Qinghai
31. Wuxu to Yutian High Tunnel
32. Wenchuan to Manzun Highways Project, Sichuan
33. Yalan to Kangding Expressway Project, Sichuan
34. Xiaohe Highway LED Lighting Project, Yunnan
35. Dal Expressway LED Tunnel Light Project, Yunnan
36. Gongshan to Dongchuan Expressway Project, Yunnan
37. Southwest section of Kunming Ring Expressway, Yunnan
38. Zhaoxi LED Tunnel Project, Yunnan
39. Langyou Expressway LED Tunnel Project, Yunnan
40. G15 Tian Kun Expressway Ma Zhao Project
41. Jinlou Expressway, Zhejiang
42. Raushe Expressway, Shandong
43. Zhuji Tunnel Project, Hangzhou
44. Hedu Road Electromechanical LED Tunnel Project
45. Shanghai Yingbin Third Road Tunnel
46. Yanggao Road Tunnel Reconstruction Project, Shanghai
47. Jianji Elevated Tunnel Light Project, Jianjiang
48. Daming Park Authentic LED Lighting Project, Shanghai
49. Interval Tunnel lights for Metro Line 11, Shanghai
50. Tunnel lights for Metro Line 1, Ningbo