## HAZARDOUS LOCATION

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|---|---|---|
| | **Models ASHH (15W) and ASUH (30W)** | Hazardous Location Amplified Speakers |
| | **Model LHWB** | Wall Mounting Bracket for Hazardous Location Applications |

## EXPLOSION-PROOF

| | | |
|---|---|---|
| | **Model 27XST-024-4-MOD** | Explosion-Proof Supervised Strobe Light |
| | **Model 24XST** | Explosion-Proof Supervised Strobe Light |
| | **Model 27XST** | Explosion-Proof Strobe Light |
| | **Model 27XL** | Explosion-Proof LED Light |
| | **Model FSEX** | Explosion-Proof Strobe Light |
| | **Models 24XSTHI-MOD and 24XSTHI-CN** | Explosion-Proof Hearing Impaired Strobe Light |
| | **Model FSEX-HI** | Hearing Impaired Explosion-Proof Strobe Light |
| | **Model 121X** | Explosion-Proof Rotating Light |

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**FEDERAL SIGNAL**

# IP69K
## PRODUCTS
### From Federal Signal

**THE BROADEST LINE OF IP69K COMPLIANT PRODUCTS IN THE INDUSTRY**

Products for dust-tight environments, that withstand high-pressure and high-temperature washdowns.

# What is IP69K?

IP69K is the highest standard on the Ingress Protection (IP) rating scale. This rating was designed for applications in which products are regularly exposed to high-pressure and high-temperature washdowns. IP69K ensures the highest confidence in harsh environments where sanitation and cleanliness are required.

IP69K products are ideal for applications in:

- Food and Beverage
- Wastewater
- Pharmaceutical
- Marine
- Medical Facilities
- Medical Equipment Manufacturing

IP69K products help reduce product failures due to water/dust ingress, increasing productivity and decreasing production downtime.

## IP rating system

The IP rating system is defined in international standard IEC 60529.
IP ratings are used to classify and define levels of ingress protection on electrical devices against solids and water. By defining a rating, the IP system ensures specific levels of coverage when products are faced with varying elements.

**IP 6 9K**

INGRESS PROTECTION MARKING

**SOLID PROTECTION**
No ingress of dust permitted.

**WATER PROTECTION**
Protection from close-range, powerful, high-temperature water jets.

## HOW IS IP69K DIFFERENT FROM NEMA TYPE 4?

Both standards require the product to withstand water but at different levels. The IP69K rating is important when products are being sprayed down at closer distances.

### IP69K

- ✓ High pressure
- ✓ Low volume/High temperature
- ✓ Short distance 6" max
- ✓ Dust-tight

### NEMA TYPE 4

- ✓ Low pressure
- ✓ High volume 65 gallons/minute
- ✓ Long distance 10–12ft

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## HAZARDOUS LOCATION

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|---|---|
| **Model G-LED** | Global Series® LED Beacon |
| **Model G-STR** | Global Series® 15J and 21J Strobe |
| **Model 350WBX** | Vibratone® Hazardous Location Horn with Back Box |
| **Model 450EWBX** | Vibratone® Hazardous Location Electronic Horn |
| **Models 300GCX and 300GCX-CN (15W), 302GCX and 302GCX-CN (30W)** | SelecTone® Hazardous Location Amplified Speakers |
| **Models 304GCX and 304GCX-CN (15W), 314GCX and 314GCX-CN (15W)** | SelecTone® Hazardous Location Supervised Amplified Speakers |
| **Models AM300GCX (15W) and AM302GCX (30W)** | AudioMaster® Public Address Hazardous Location Speakers |
| **Model AM15XD2** | Public Address Hazardous Location Speaker |
| **Model SST3GCX-MV** | Hazardous Location Remotely Selectable Electronic Siren |

## HAZARDOUS LOCATION

| | | |
|---|---|---|
| | **Model 151XST** | Hazardous Location Strobe Light |
| | **Model 154XST** | Hazardous Location Supervised Strobe Light |
| | **Models 191XL and 191XL-CN** | Hazardous Location LED Lights |
| | **Models 154XSTHI and 154XST-CN** | Hazardous Location Supervised Fire Listed Strobe Lights |
| | **Model 224XST** | Electraray® Supervised Hazardous Location Strobe Light |
| | **Model 224XSTHI** | Electraray® Supervised Hearing Impaired Hazardous Location Strobe Light |
| | **Model 225X** | Electraray® Hazardous Location Rotating LED Warning Light |
| | **Model 225XL** | Electraray® Hazardous Location LED Flashing Light |
| | **Models 225XST and 225XST-I** | Electraray® Hazardous Location Strobe Lights |
| | **Model 371DST** | Commander® Double Strobe Hazardous Location Light |
| | **Model 371LEDX** | Hazardous Location Commander® LED Rotating Light |
| | **Models FB2LEDX, FB2LEDX-CN, FB2LEDX-QC, FB2LEDX-QC-S** | Fireball® Hazardous Location Single and Multicolor LED Lights |

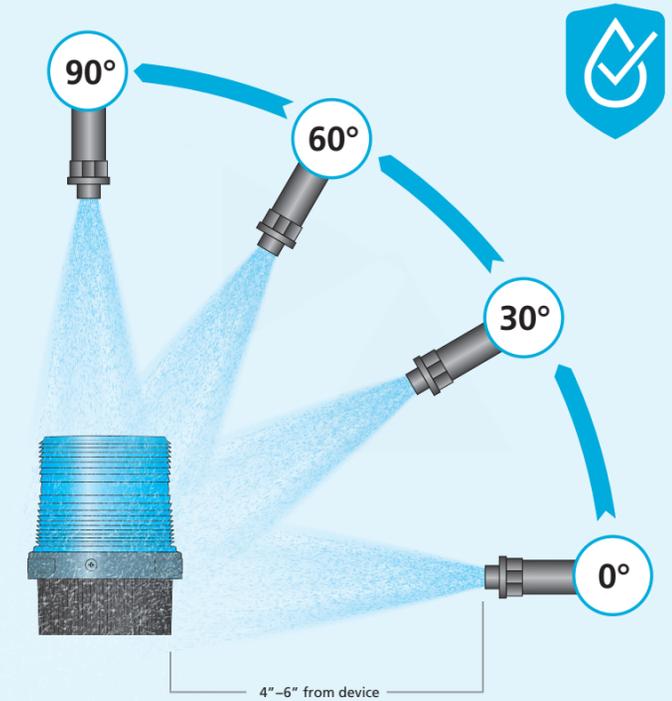## Our products endured the following testing:

**IP69K**

Dust-tight tested in an Arizona A2 Dust 2kg/m³ chamber for 6 seconds at a time, every 15 minutes for five hours.

**IP69K**

Testing which included high-pressure steam jet cleaning, water sprays of 1160–1450 psi every 30 seconds.
The water is sprayed from 4 different angles, at a distance of 4–6 inches, and temperatures of 176°F (80°C).

90°
60°
30°
0°

4"–6" from device

Federal Signal has the
**BROADEST SELECTION OF IP69K PRODUCTS!**

### WE OFFER OVER 700 MODELS
for safe area, hazardous and explosion proof applications that meet all environmental ratings.

**YOUR SAFETY AND SECURITY IS OUR PRIORITY!**

### CERTIFICATIONS
In addition to IP69K, our products have been designed to meet or exceed the uncompromising standards of UL, CSA, CSFM, IECEx, and other global certifications. And with our ISO 9001 Certification, we want you to know that we are committed to quality.

IECEx
Ex
c UL us
ULC
CE
UKCA
INMETRO
CSA
EAC
CSFM

| Models 121SLED and 121ALED | Vitalite® Rotating LED Lights |

| Model 225 | Electraray® Rotating LED Warning Light |

| Model 350WB | Weatherproof Vibratone® Horn with Back Box |

| Model 371LED | Commander® LED Rotating Beacon |

| Models FB2LED and FB2LED-QC | Fireball® LED Light |

| Models FB2PST and FB2PST-I | Fireball® Strobe Lights |

| Model FB24ST | Fireball® Supervised Strobe Light |

| Models FB24STHI and FB24STHI-024C-CN | Fireball® Supervised Hearing Impaired Strobe Lights |

| Models LP3M, LP3P and LP3S | StreamLine® Low Profile Strobe Lights |

| Models LP3SL, LP3PL and LP3ML | StreamLine® Low Profile Steady Burning LED Lights |

| Models PMA and PMAMT | Panel Mount Electronic Sounders |

| Model PMC | Panel Mount Multifunctional LED Combination Audible/Visual Signal |

| Models PMLMP and PMLST | Panel Mount Multifunctional LED Beacons |

| Models PM22L and PM22L RGB | Panel Mount 22mm Multifunctional LED |

| Model RSL | Radiant Configurable Stack Light |

| Models LP57 and LP57 RGB | StreamLine® Mini LED Beacon Series |

| Models SLM100, SLM200, SLM300/350, SLM1400/1450 and SLMBS, SLMBD and SLMBP | StreamLine® Modular Multifunctional LED Beacons and Mounting Options |

| Model SST3-MV-SB | Remotely Selectable Electronic Siren |

| Model LSWB | Wall Mounting Kit for 4X, Safe Area Applications |