Model P-LS2B and P-LS2C

Non-Metallic Zone 1 Loudspeaker

Federal Signal's non-metallic loudspeakers, model P-LS2B and P-LS2C, are designed for use in industrial public address and general alarm applications, where corrosion resistance and ATEX/IEC Certification are required. P-LS2B and P-LS2C loudspeakers are available in an ATEX/IEC Zone 1 explosion-proof version certified IP66 for ingress of dust and combustible gas to either Group IIB or Group IIC.

P-LS2B and P-LS2C loudspeakers, designed to accept an audio input of 100 Vrms, are manufactured from corrosion-resistant, anti-static glass-reinforced polyester (GRP). Each speaker is transformer coupled with a maximum power output of 25 watts and is supplied with 10 preset taps (25, 20, 15, 10, 5, 2, 1.5, 1, 0.5 and 0.2 watts) to adjust sound output.

Mounting is provided by a “common template” stainless-steel ratcheted mounting bracket that locks the loudspeaker in position at a specific angle without slipping. Optional swivel ratcheted bracket contains three slotted mounting holes to further adjust speaker position and adapt to a variety of different surfaces.

Connection for field wiring is provided by two M20 X 1.5 mm threaded openings in the bottom of the rear cover and terminated via internal terminal blocks. All external hardware is manufactured from stainless steel to resist corrosion and provide serviceability for years to come.

**Table: Model Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Handling</th>
<th>Frequency Response</th>
<th>Power Transformer</th>
<th>Taps</th>
<th>Decibels 10°</th>
<th>Decibels 1M</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-LS2B</td>
<td>25 watt</td>
<td>150Hz - 21kHz</td>
<td>100 Vrms</td>
<td>25, 20, 15, 10, 5, 2, 1.5, 1, 0.5, 0.2</td>
<td>114</td>
<td>124</td>
</tr>
<tr>
<td>P-LS2C</td>
<td>25 watt</td>
<td>150Hz - 21kHz</td>
<td>100 Vrms</td>
<td>25, 20, 15, 10, 5, 2, 1.5, 1, 0.5, 0.2</td>
<td>113</td>
<td>123</td>
</tr>
</tbody>
</table>

- Transformer coupled
- 100 Vrms
- 25 watt
- Re-entrant horn design
- U Mounting bracket included, optional swivel mount bracket available
- IP66 rated
- ATEX and IECEx Certified for Zone 1, Gas Groups IIB and IIC
Non-Metallic Zone 1 Loudspeaker (P-LS2B AND P-LS2C)

**SPECIFICATIONS**

- **Certificate Number:**
  - ATEX: Baseefa10ATEX0096X
  - IECEx: IECEx BAS 10.0052X
  - P-LS2B
    - Ex de mb IIB T5 Gb (-50°C < Ta +70°C)
    - T6 Gb (-50°C < Ta +55°C)
  - P-LS2C
    - Ex de mb IIC T5 Gb Ex tb IIIC IP66 T85°C Db (-50°C < Ta +55°C)
  - Gland Entries: 2 X M20 X 1.5 mm
- **Cable Terminations:** 0.5 – 4 mm² (12-22 AWG) Conductors
- **Size (P-LS2B & P-LS2C):**
  - 232.4 mm (9.15") Diameter
  - 286.2 mm (11.27") Height
  - 318.8 mm (12.55") Length
- **Material:** Glass-Reinforced Polyester (GRP)
- **Color:** Black
- **Audio Input:** 100 Vrms
- **Max. Audio Output:** (max.) 124dB @ 25 Watt (1 meter)
- **Wide Range Frequency Response:** 150Hz – 21kHz
- **Net Weight:** (P-LS2B & P-LS2C): 5.9 kg 13.0 lbs
- **Shipping Weight:** (P-LS2B & P-LS2C): 6.9 kg 15.3 lbs

**HOW TO ORDER**

- **Specify Model:**
  - P-LS2B – Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIB
  - P-LS2C – Corrosion Resistant Loudspeaker, ATEX Zone 1 Rated Gas Group IIC

**OPTIONAL ACCESSORIES**

- **Description**
- **Part Number**
- Swivel Mounting Bracket K8595172A

**REPLACEMENT PARTS**

- **Description**
- **Part Number**
  - Standard Mounting Bracket Kit K8595171A
  - Swivel Mounting Bracket Kit K8595172A
  - P-LS2 Gasket and Fuse Kit¹ K859500361A

¹ Includes rear cover gasket kit and fuse module