

## Professional Series

### Features:

- ▶ Component: 165 mm (6,5" in) full-range dual-cone loudspeaker
- ▶ EN54-24 certified and compliant standard.
- ▶ 6W, transformer for use on 100V distributed speaker lines.
- ▶ Metal fire dome with easy blind-mount installation; clip-in torsion-mount speaker.

### Applications:

CS06-FP is a full-range, EN54-24 certified ceiling speaker consisting of a 165 mm (6,5 inch) full-range dual-cone driver, torsion-mounted into an included easy-install blind-mount metal fire dome. The speaker is designed to provide clear and intelligible sound for applications requiring EN54 certification compliance.

A high temperature ceramic input connector with metal inserts secures bare wire terminations for +, -, and case ground connections, and an in-line thermal fuse protects the distributed speaker line from becoming shorted out when a fire or other issue affects any of the individual speakers. The backcan contains two wiring access holes with sealed diaphragm-type grommets to help physically protect the wire and helps to seal the system at the entrance point.



### Specifications:

|             |   |  |         |                |
|-------------|---|--|---------|----------------|
| System:     | Frequency Range (-10 dB) <sup>1</sup> : | 120 Hz – 18 kHz  |         |                |
|             | Power Capacity <sup>2</sup> :           | 6 Watts (at 6W tap)  |         |                |
|             | Rated Pink Noise Power:                 | 6 Watts (at 6W tap)  |         |                |
|             | Rated Pink Noise Voltage:               | 100V distributed speaker line voltage  |         |                |
|             | Nominal Sensitivity :                   | 92 dB  |         |                |
|             | Coverage Pattern <sup>3</sup> :         | 120° conical (2 kHz)   |         |                |
|             | Coverage Angles (by Frequency):         | 4000 Hz  | 2000 Hz | 1000 Hz 500 Hz |
|             | Conical (Vertical & Horizontal):        | 100°   | 120°    | 180° 180°      |
|             | Reference Axis for Specifications:      | The reference axis for specifications is directly on-axis vertically and horizontally, directly below the speaker as speaker is installed in the horizontal ceiling plane.   |         |                |
|             | Rated Maximum SPL:                      | 100 dB @ 1m (3.3 ft) average SPL (6W tap @ 100V)   |         |                |
|             | Nominal Impedance:                      | 6W @ 100V  |         |                |
|             | Transformer Taps:                       | 6W at 100V. Selected by sliding the included fast-on connector onto the proper tab on the transformer.   |         |                |
| Electrical: | Fuse:                                   | Thermal fuse, open temperature 150 degrees C; 2A@250VAC; UL, CUL, VDE, PSE and CCC approved.   |         |                |
| Transducer: | Driver:                                 | 165 mm (6,5 in) dual-cone driver, paper cone   |         |                |
| System:     | Connections:                            | Input +, Input -, Earth Ground (connected to metal speaker baffle). Ceramic block with brass inserts (3.2 mm / 0.12 in. opening) accommodates 2.5 sq mm / 12 AWC wire.   |         |                |
|             | Safety Agency:                          | EN54-24 certified (Certificate No: 3N200710.TECU12)  |         |                |
|             | Ambient Temp Range:                     | -10°C to +55°C   |         |                |
| Enclosure:  | Installation:                           | Fire dome installation via two metal clamps, affixed via hex head clamp screws from inside of fire dome. Speaker installation via two torsion springs into hooks on inside of fire dome. See installation instructions.  |         |                |
|             | Wire Entrance:                          | Two diaphragm-type sealed-grommet entrance points on backcan in 20 mm (0.82 in) diameter cutouts that can be field fitted with installer supplied 19 mm (3/4-inch) mount gland nut for additional seal or strain relief. |         |                |
|             | Materials:                              | Metal fire dome, metal speaker baffle, metal grille.   |         |                |
|             | Ceiling Cutout Size:                    | 165 mm (6.5 in) diameter hole ±2 mm (0.1 in).  |         |                |
|             | Ceiling Thickness Range:                | 0.5 mm (0.02 in) to 23 mm (0.9 in) ceiling thickness   |         |                |
|             | Net Weight:                             | 1.5 Kg (3.3 lb) per speaker  |         |                |
|             | Shipping Weight:                        | 1.9 Kg (4.2 lb) per speaker  |         |                |