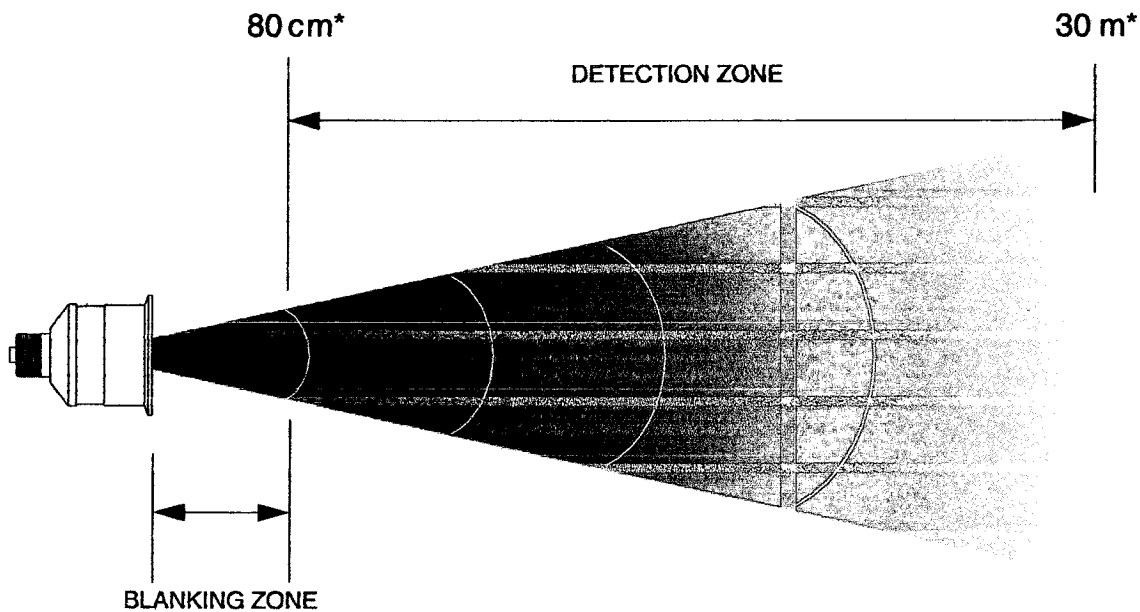
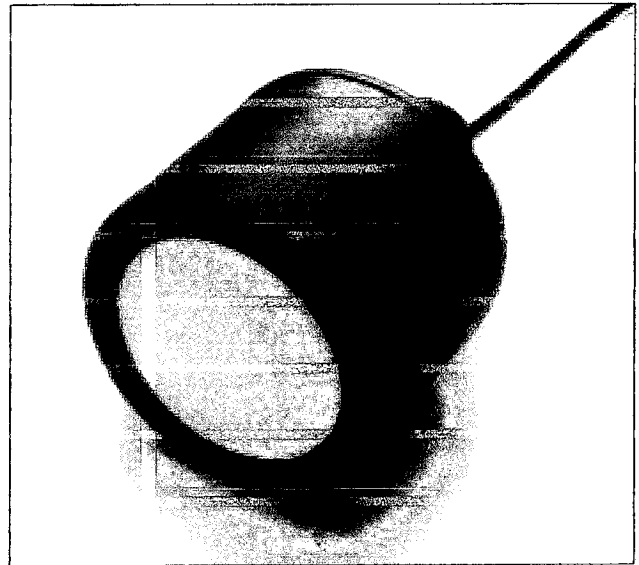


# SC0033

Sense's most powerful air ranging transducer offers a detection range of up to 30 meters. Recommended for applications requiring high power for sensing through foams, in dusty environments, or for extended long range shots. Available as cylindrical housing or as a complete assembly with a threaded cap suitable for mounting to conduit or brackets. Interior of housing is designed to accommodate transceiver and signal processing electronics. Models available for hazardous as well as benign environments.



\* Pulse-Echo Mode

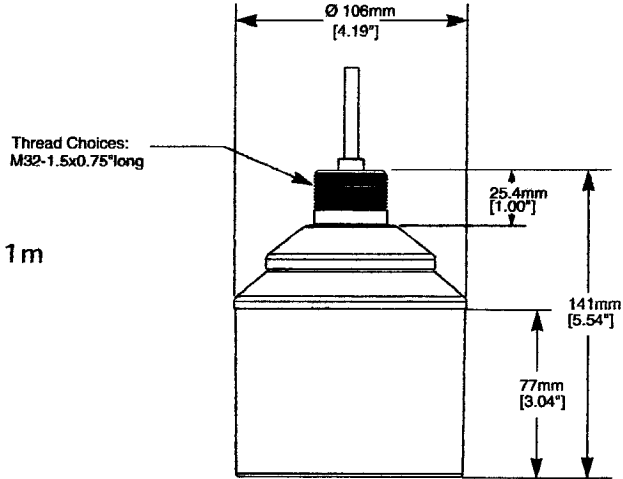
Actual range may vary, depending on drive circuitry and signal processing

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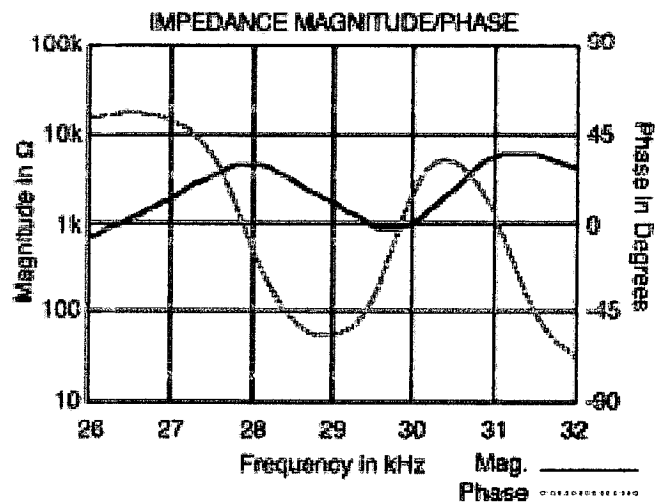
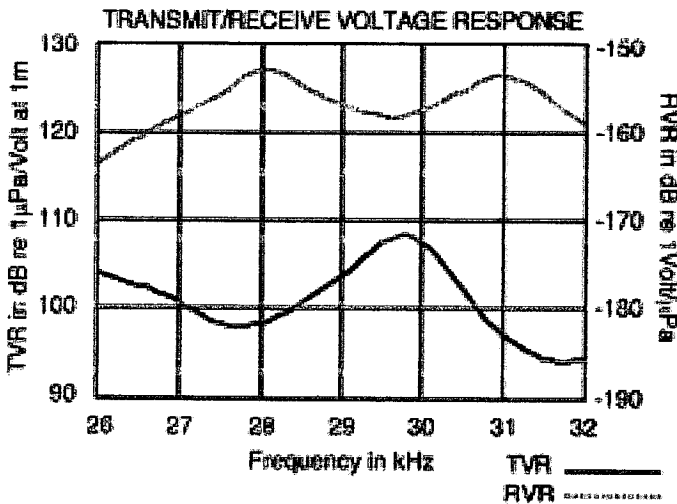
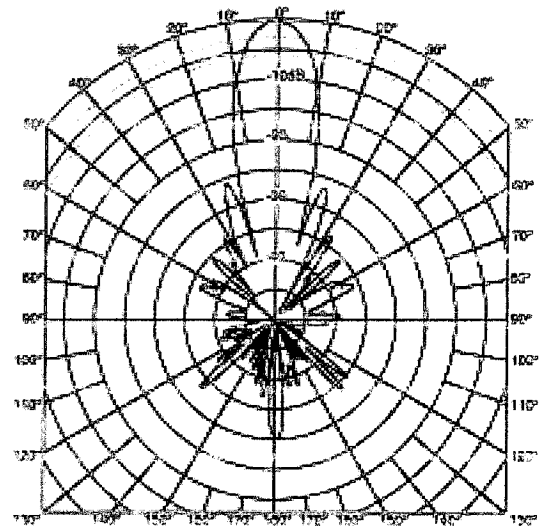
17-204-01 Rev. 03-A

**SPECIFICATIONS**

- Best Operating Frequency: 30kHz +/- 4%
- Min. Transmit Sensitivity: 105dB re 1  $\mu$ Pa/V at 1m at best transmit frequency
- Min. Receive Sensitivity: -155dB re 1V/ $\mu$ Pa at best receive frequency
- Min. Parallel Resistance: 700 $\Omega$  +/- 30%
- Free (1kHz) Capacitance: 5700pF +/- 1000pF
- Beam width (-3dB full angle): 12° +/- 2°
- Maximum Driving Voltage: 3200V<sub>pp</sub> (2% duty cycle tone burst)
- Operating Temperature: -40°C to 90°C
- Weight: 800g
- Materials:
  - Housing: Glass filled polyester
  - Acoustic Window: Glass reinforced epoxy
- All specifications typical at 22°C and subject to change without notice.
- Options: Various temperature sensors available for temperature compensation.



**DIRECTIVITY**



**SENSE**

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17-204-01 Rev. 03-A

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MSN：[suns8888@hotmail.com](mailto:suns8888@hotmail.com)

QQ：195847376

地址：深圳市福田区福华路福庆街鸿图大厦 1602 室

电话：0755-83376549 83376489 83387030 83387016

传真：0755-83376182 83338339 邮编：518033 手机：(0)13902971329

深圳展销部：深圳华强北路赛格电子市场 2583 号 TEL/FAX：  
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北京分公司：北京海淀区知春路 132 号中发电子大厦 3097 号

TEL：010-81159046 82615020 13501189838 FAX：010-82613476

上海分公司：上海市北京东路 668 号上海赛格电子市场 2B35 号

TEL：021-28311762 56703037 13701955389 FAX：021-56703037

西安分公司：西安高新开发区 20 所(中国电子科技集团导航技术研究所)

西安劳动南路 88 号电子商城二楼 D23 号

TEL：029-81022619 13072977981 FAX:029-88789382

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