

**MODEL:** CUSP-TR12-010-1150-W | **DESCRIPTION:** ULTRASONIC SENSOR**FEATURES**

- plastic housing
- combination receiver & transmitter
- IP65
- wire leads

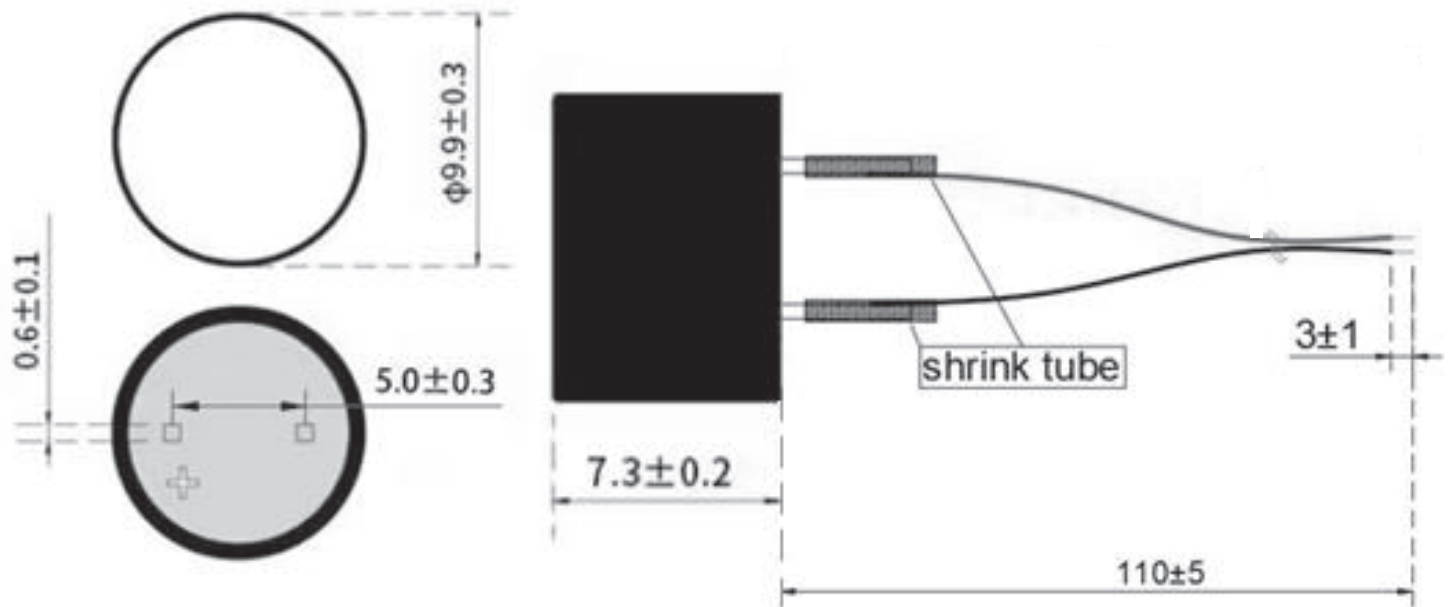
**SPECIFICATIONS**

| parameter             | conditions/description                           | min  | typ   | max   | units              |
|-----------------------|--------------------------------------------------|------|-------|-------|--------------------|
| type                  | receiver/transmitter                             |      |       |       |                    |
| operating voltage     |                                                  |      |       | 50    | Vp-p               |
| frequency             |                                                  | 270  | 300   | 330   | kHz                |
| echo sensitivity      | at 10 cm                                         | 1.8  |       | 3.8   | V                  |
| directivity           | at -6 dB                                         | 9    |       | 12    | degree             |
| capacitance           | at 1 kHz                                         | 920  | 1,150 | 1,380 | pF                 |
| detectable range      |                                                  | 0.05 |       | 1     | m                  |
| response time         | at 10 Vp-p, 5 pulses, 300 kHz                    |      |       | 0.30  | ms                 |
| impedance             | at internal resistance 100 $\Omega$ , 1 kHz, 1 V | 960  | 1,200 | 1,440 | $\Omega$           |
| dimensions            | $\varnothing 9.9 \times 7.3$                     |      |       |       | mm                 |
| material              | nylon (black)                                    |      |       |       |                    |
| terminal              | wire leads                                       |      |       |       |                    |
| weight                |                                                  |      | 1.1   |       | g                  |
| operating temperature |                                                  | -20  |       | 60    | $^{\circ}\text{C}$ |
| storage temperature   |                                                  | -20  |       | 70    | $^{\circ}\text{C}$ |
| RoHS                  | yes                                              |      |       |       |                    |
| IP level              | IP65                                             |      |       |       |                    |

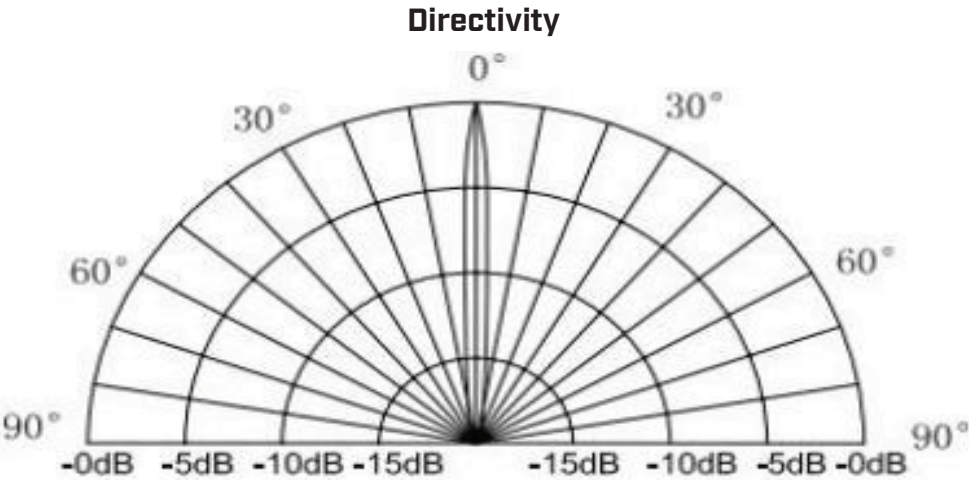
## MECHANICAL DRAWING

units: mm

wire: UL1571, 30 AWG



**BEAM PATTERNS**



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 08/09/2024 |
| 1.01 | CUI Devices rebranded to Same Sky | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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