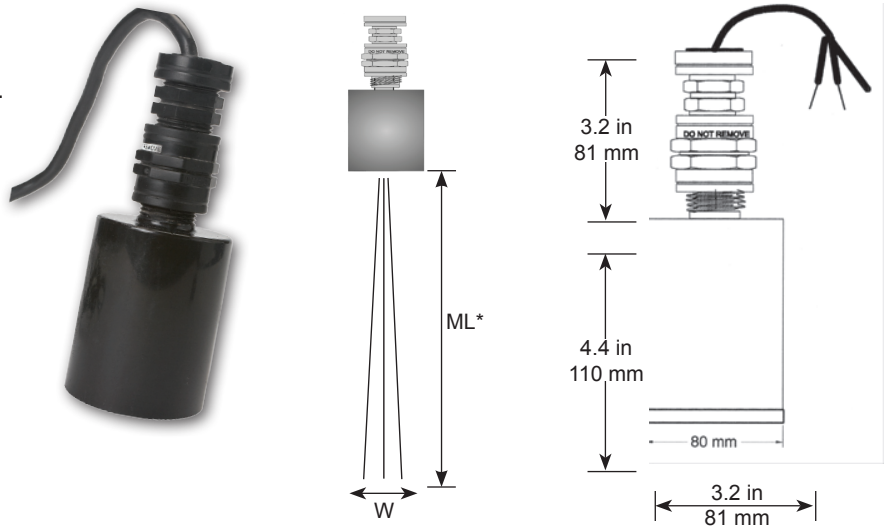


KSONIK K10C, K10T3C, K10T4C, K20C, K20HC, K60C Ultrasonic Level Transmitter

Ultrasonic level transmitter transducers & accessories K-TEK Products

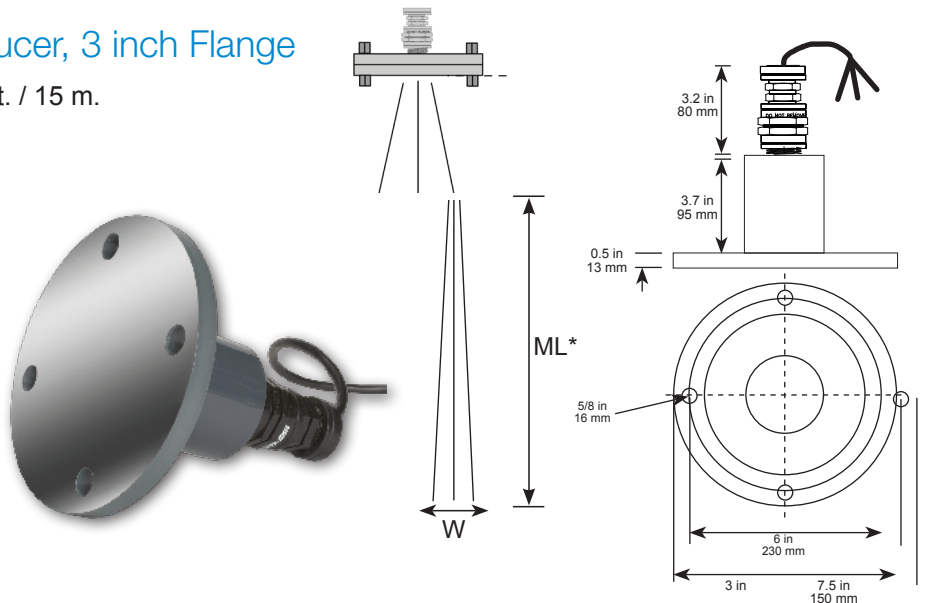
K10C General Purpose

Maximum Measuring Length (ML) 50 ft.
/ 15 m.



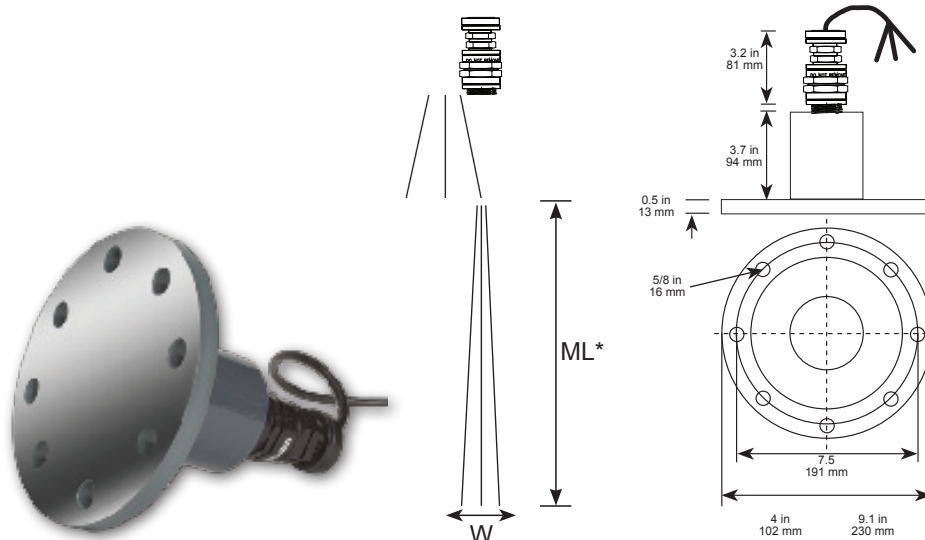
K10T3C PTFE Lined Transducer, 3 inch Flange

Maximum Measuring Length (ML) 50 ft. / 15 m.



K10T4C PTFE Lined Transducer, 4 inch Flange

Maximum Measuring Length (ML) 50 ft. / 15 m.



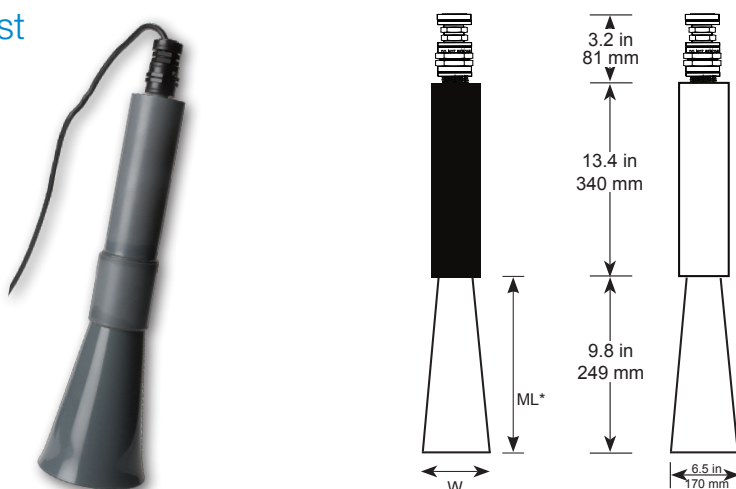
K20C Intermediate Range

Maximum Measuring Length (ML) 100 ft. / 30 m.



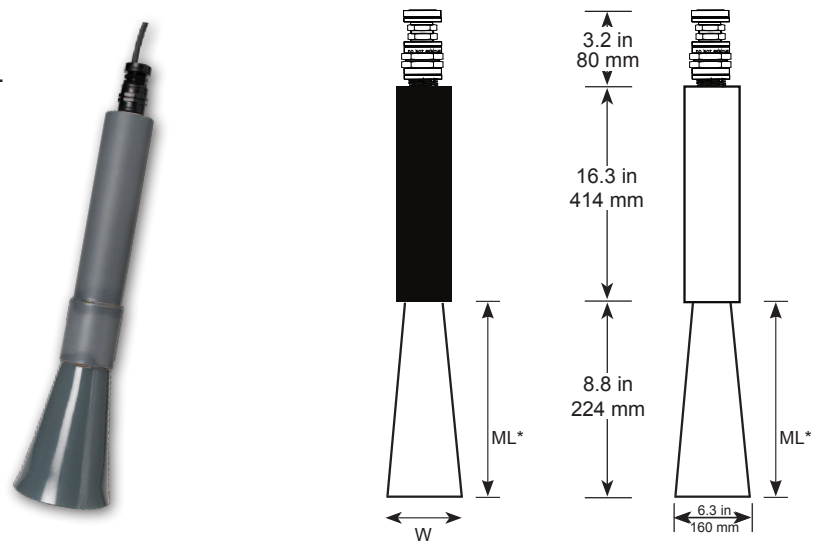
K20HC Intermediate Range with Dust

Maximum Measuring Length (ML) 100 ft. / 30 m.



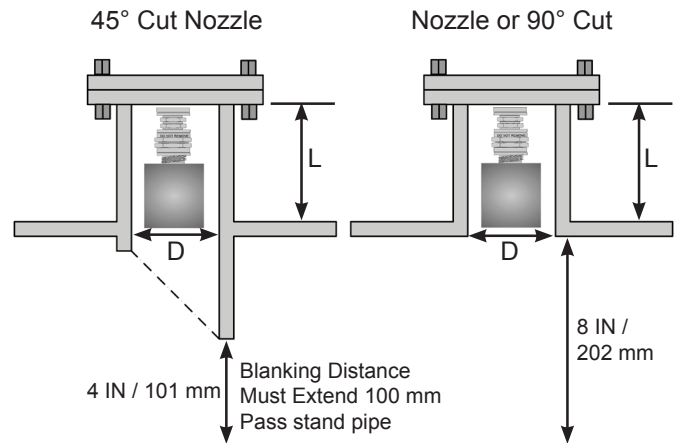
K60C Long Range

Maximum Measuring Length (ML) 196 ft. / 60 m.



Nozzle Installation

The KSONIK Transducer must be installed at a height so that the blanking distance is not interfered with, even at the maximum fill level. A pipe nozzle can be used if you cannot obtain the blanking distance in any other way or if a nozzle is pre-existing on a tank structure. The interior of the nozzle must be smooth with no edges, welded joints or burrs on the inside of the tank side nozzle end. Best results are achieved with a 45° cut nozzle. The Transducer may not function correctly if the blanking distance is not above the maximum level measured.



| D (in. / mm) | Nozzle or 90° Cut - Maximum Length (L) | | |
|-----------------|--|------------------|-----------------|
| | K10C | K20C | K60C |
| 3 in. / 80 mm | 8 in. / 200 mm | not applicable | not applicable |
| 4 in. / 100 mm | 10 in. / 250 mm | 26 in. / 650 mm | not applicable |
| 6 in. / 150 mm | 15 in. / 380 mm | 60 in. / 1500 mm | not applicable |
| 8 in. / 200 mm | 15 in. / 380 mm | 72 in. / 1800 mm | consult factory |
| 10 in. / 250 mm | 24 in. / 600 mm | 92 in. / 2300 mm | consult factory |

| D (in. / mm) | 45° Cut Nozzle - Maximum Length (L) | | |
|-----------------|-------------------------------------|-------------------|-----------------|
| | K10C | K20C | K60C |
| 3 in. / 80 mm | 19 in. / 490 mm | not applicable | not applicable |
| 4 in. / 100 mm | 22 in. / 550 mm | 30 in. / 750 mm | not applicable |
| 6 in. / 150 mm | 60 in. / 1500 mm | 76 in. / 1900 mm | not applicable |
| 8 in. / 200 mm | 80 in. / 2000 mm | 100 in. / 2500 mm | consult factory |
| 10 in. / 250 mm | 100 in. / 2500 mm | 124 in. / 3100 mm | consult factory |

Min. Transducer Material and Ratings

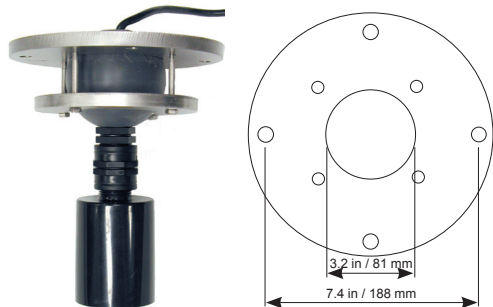
| Trans | Min Bkg | Frq. KHz | Beam Angle | Facing Material | Body Material | IP Protection | Temp Range | Mounting |
|--------|---------------|----------|------------|-------------------|---------------|---------------|----------------------------|------------|
| K10C | 1 ft. / 0.3 m | 44 | 3° | Polyurethane | PVC | IP68 | -4 to 176°F -20 to 80°C | 1 in. MNPT |
| K10T3C | 1 ft. / 0.3 m | 44 | 3° | PTFE | PVC | IP68 | -4 to 176°F -20 to 80°C | in. MNPT |
| K10T4C | 1 ft. / 0.3 m | 44 | 3° | PTFE | PVC | IP68 | -4 to 176°F -20 to 80°C | 4 in. MNPT |
| K20C | 3 ft. / 1 m | 15.4 | 3° | Polyurethane Foam | PVC | IP62 | -4 to 176°F -20 to 80°C | 1 in. MNPT |
| K20HC | 3 ft. / 1 m | 15.4 | 3° | Polyurethane Foam | PVC | IP62 | -4 to 176°F -20 to 80°C | 1 in. MNPT |
| K60C | 5 ft. / 1.5 m | 12.5 | 3° | Polyurethane Foam | PVC | IP62 | -4 to 176°F -20 to 80°C | 1 in. MNPT |

Transducer Description and Ranges

| Trans | Description | KSONIK I | | KSONIK III | |
|--------|-----------------------------------|---------------|--------------|----------------|----------------|
| | | Liquids | Solids | Liquids | Solids |
| K10C | General Purpose | 50 ft. / 15 m | 16 ft. / 5 m | 50 ft. / 15 m | 16 ft. / 5 m |
| K10T3C | PTFE Lined Transducer with flange | 50 ft. / 15 m | | 50 ft. / 15 m | |
| K10T4C | PTFE Lined Transducer with flange | 50 ft. / 15 m | | 50 ft. / 15 m | |
| K20C | Medium Range | | | 100 ft. / 30 m | 100 ft. / 30 m |
| K20HC | Medium Range with Dust | | | 100 ft. / 30 m | 100 ft. / 30 m |
| K60C | Long Range | | | 195 ft. / 60 m | 195 ft. / 60 m |

AKIT - Aiming Kit (304SS)

It is recommended that an aiming kit be used when the transducer is used on a solids application. It allows positioning of the transducer to maximize the return signal.

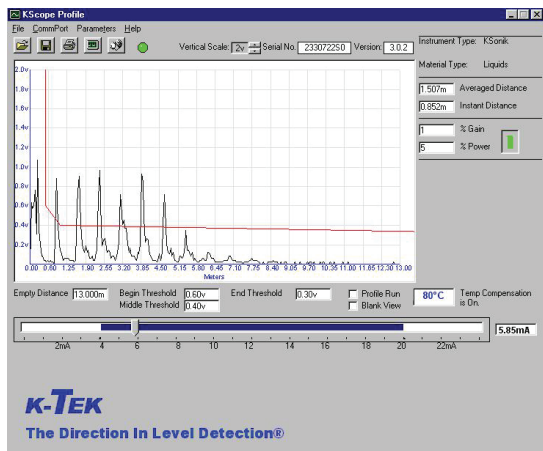


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KSCOPE - KSONIK Scope Software

Multi-use Windows based software package. Allows programming and bin mapping. Can also help set up a KSONIK I or III in just a few minutes and is downloadable from the ABB website (www.abb.com/level).



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