

## Kobold Ultrasonic Level Transmitters

- Monitor tanks and bins up to 24.5 feet deep
- Non-contact sensor
- Compatible with viscous, sticky or chemically aggressive media
- Compact and easily installed
- 4–20 mA transmitter
- Automatic temperature compensation
- On-board display for easy calibration
- Loop powered and Intrinsically Safe versions



**NEO-5001**

### SPECIFICATIONS

Range:	NEO-5001: 18 feet from sensor face NEO-5003: 24.5 feet from sensor face
Span:	NEO-5001: 17.5 feet NEO-5003: 24 feet
Display:	NEO-5001: LCD; NEO-5003: LED
Dead Band:	0.5 feet (6 inches)
Accuracy:	±0.25% of span
Repeatability:	±0.125"
Fitting:	2" NPT
Probe Material:	PVDF
Enclosure Material:	PP (UL 94V0)
Temp. Range:	-40 to 140°F
Pressure Rating:	30 PSI @ 75°F
Beam Angle:	±8° off vertical
Sensor Frequency:	50 kHz
Signal Output:	NEO-5001: 4-20 mA DC (2-wire) into 350Ω max. NEO-5003: 4-20 mA DC (3-wire) into 350Ω max.
Supply Voltage:	14 to 36 VDC
Current Draw:	NEO-5003: 200 mA max.
Relay:	NEO-5003: SPDT 12 amps @ 240 VAC/120 VDC
Dimensions:	2.8" dia x 6.3" long, excluding cable port
Protection:	NEMA 4X
Intrinsic Safety Rating (NEO-5001IS only):	
CSA/NRTL/C:	Class I, Div 1 Groups A,B,C,D Class II, Div 1 Groups E,F & G Class III, Temp Code: T3C
Vmax, Imax:	32.0 VDC, 130 mA
CI, LI:	0 microFarads, 0 microHenries

### Beam Divergence

Range	Radius	Range	Radius
1'	2.6"	13'	21.5"
2'	4.2"	14'	23.1"
3'	5.7"	15'	24.7"
4'	7.3"	16'	26.3"
5'	8.9"	17'	27.8"
6'	10.5"	18'	29.4"
7'	12.1"	19'	31.0"
8'	13.6"	20'	32.6"
9'	15.2"	21'	34.2"
10'	16.8"	22'	35.7"
11'	18.4"	23'	37.3"
12'	20.0"	24'	38.8"



**NEO-5003**

### ORDERING INFORMATION

KO/NEO-5001	Loop-powered Level Transmitter with LCD display
KO/NEO-5001IS	Intrinsically safe loop-powered Level Transmitter with LCD display
KO/NEO-5003	DC powered Level Transmitter with LED display & relay output