Non-contact level measurement sensor

InoxLaser NL-01

Product overview

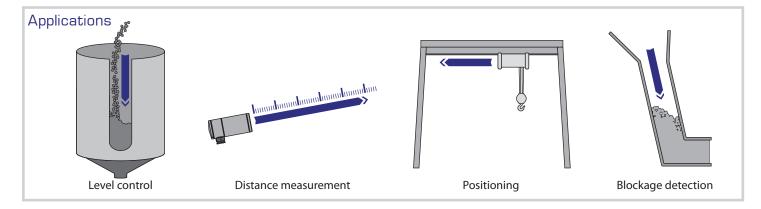
The NEWCO Instruments InoxLaser is a non-contact laser sensor used to measure the distance to a solid surface. This surface could be anything from a flat metal plate on the side of an overhead crane, to the top of material stored in a silo. With an easy to use menu system, the InoxLaser can be configured for either distance or level measurement and the high accuracy, long range and fast update rate make this the ideal sensor for many different applications.

Features

- o Non-contact measurement with laser technology
- o 303 Stainless steel housing
- o Measurement range up to 50 meters (164 feet)
- o Continuous measurement with a resolution of 10 mm
- o NAMUR compliant 4...20 mA output
- o 2 Normally open relay outputs
- o Easy configuration via USB



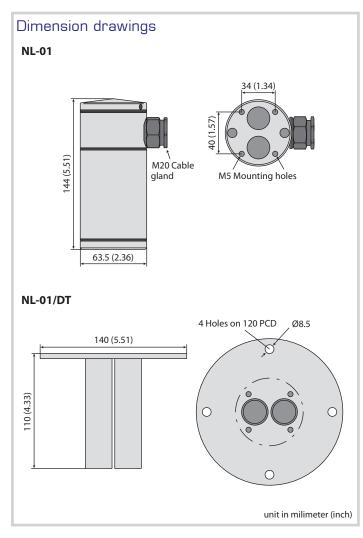
Level, distance & position measurement of solids

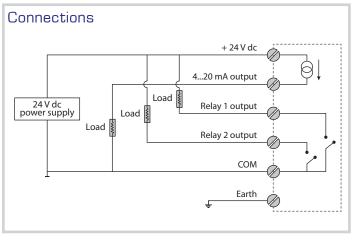


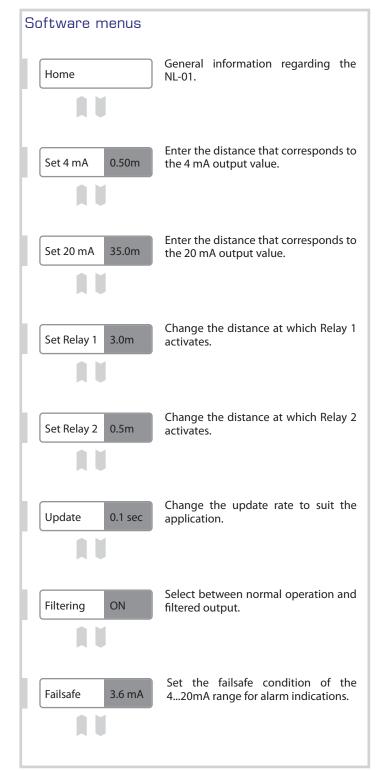
Technical specification	S Company of the comp
Performance data	
Sensing range	0.350 m (0.98'164')
Resolution	1 cm (0.39")
Accuracy	< 0.1% of full range at 20°C
Update rate	5 readings per second
Technical data	
Power supply	24 V dc nominal (1228 V dc)
Current consumption	100 mA nominal
Output	
Analog	420 mA NAMUR compliant self-powered & non-isolated. 2 x Relays (N/O), 250 V at 3 A.
Communication	USB at 115200 baud 8-N-1
Mechanical data	
Diameter	NL-01: 6.35 cm (2.36") NL-01/DT: 14 cm (5.51")
Length	NL-01: 14.4 cm (5.51") NL-01/DT: 11 cm (4.33")
Weight	NL-01: 1 kg (2.2 lb) NL-01/DT: 0.75 kg (1.65 lb)
Connection	Flange accessory (NL-01/DT) with 4 Ø 0.85 cm holes on 120 PCD
Housing material	303 Stainless steel
Optical data	
Optical aperture	6 cm (2.36")
Beam divergence	< 1° to half power points
Lens material	Impact resistant acrylic
Laser safety classification	Class 1M CAUTION: Do not view laser directly with optical instruments
Environmental data	
Operating temperature	-20°C+60°C
Pressure	Atmospheric
Enclosure rating	IP66



Simple solid level measurement







Warranty and liability statement

This product is subject to the normal terms, conditions, warranties and disclaimers of NEWCO Instruments, its distributors and representatives.

Product order codes

Non-contact level measurement sensor NL-01 Dust tube accessory NL-01/DT NL-01/SB Swivel mounting bracket



NEWCO Instruments CC

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