



VRX21 • VRX31 • VRX41 • VRX51 • VRX61 • VRX71

VIBRATING PROBE

Operating Instructions
Please read carefully

BinMaster Sensors and Technologies LLC

2021 Transformation Dr Ste 2230

Lincoln, NE 68508-9741

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GENERAL SPECIFICATIONS

Power supply:	24 VDC or 115/230 VAC, Model Dependent 24 VDC +/-10% 1.5 VA 115/230 VAC +/-10% 5 VA 50/60 Hz
Ambient temperature (Electronics):	-40° F to +140° F (-40° C to +60° C)
Process temperature	
Standard Probe	-40° F to +176° F (-40° C to +80° C)
HT Probe	-40° F to +284° F (-40° C to +140° C)
VRX61, VRX71	-40° F to +500° F (-40° C to +260° C)
 Enclosure:	Powder coated: NEMA Type 4X/IP66
Relay output:	DPDT contacts, 5 Amps 250 VAC
Altitude:	Up to 2000 m
Environment:	Indoor, outdoor & wet locations
Relative Humidity:	Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C
Overvoltage Category II - Pollution Degree 2	
Mounting (Model Dependent):	1.25" NPT 1.5" NPT 2" Tri-clamp 0.75" NPT
Conduit entries:	
Minimum material density:	1.9 lb/cu ft (30 g/liter) for all above models

Note: The Model VRX51 has no Ordinary Locations or Hazardous Location Certifications

For Ordinary Locations Versions Order Code VRXX1.X

Approvals: Ordinary Locations
Standards: UL 61010-1:2023
CSA C22.2# 61010-1-12 (R2022)

For C/US Class II Versions Order Code VRXX1.D

Approvals: Hazardous Location Rating
C/US Class II Div I Groups E, F, & G
Standards: UL 1203:2023 Ed.6+R: 30May2024
CSA C22.2#25:2017 Ed.4
UL 61010-1:2023
CSA C22.2# 61010-1-12 (R2022)
Conforms to UL STD 1203
Certified to CSA STD C22.2 #25

For C/US Class II & IECEx-ATEX versions Order Code VRXX1.A

Approvals: Hazardous Location Rating
C/US Class II Div I Groups E, F & G
ATEX  II 1 D Ex ta IIIC T135°C Da (Ta = -20°C to +60°C)
IECEx Ex ta IIIC T135°C Da (Ta = -20°C to +60°C)
Standards: UL 1203:2023 Ed.6+R:30May2024
CSA C22.2#25:2017 Ed.4
UL 61010-1:2023
CSA C22.2# 61010-1-12 (R2022)
Conforms to UL STD 1203
Certified to CSA STD C22.2 #25



SAFETY SUMMARY

Review the safety precautions to avoid injury and prevent damage to equipment.

The product should be installed, commissioned, and maintained by qualified, authorized personnel only. If installed per installation manual, routine maintenance is not required.

Install according to instructions. Field wiring should conform to all national and local electrical codes and any other agency or authority having jurisdiction over the installation.

Use electrical wire that is sized and rated for the maximum voltage and current of the application. The internal grounding terminal shall be used as the equipment grounding means, and that the external terminal is only a supplemental equipotential bonding connection where local authorities permit or require such a connection. For EPL Da ta installations, supply fault current must be 1.5kA maximum.

The equipment shall be installed only in a fixed installation. Appropriate measures shall be taken during installation and use to minimize the risk of ignition due to electrostatic discharge. The equipment shall only be cleaned with a damp cloth, and installation shall be carried out in a manner that minimizes electrostatic charging.

Install according to instructions and comply with all National and Local codes.

Use electrical wire that is sized and rated for the maximum voltage and current of the application. Properly ground the enclosure to an adequate earth ground.

Observe terminal and relay contact ratings on the nameplate and in the installation manual.

Ensure the enclosure cover is in place and secured tightly during normal operation. In potentially wet environments, thoroughly seal all conduit entries.

If this product is used in a manner not specified by the manufacturer safety protection could be compromised.

If dissimilar metals are used to mount the level control, the enclosure should be inspected for galvanic action every three years.

Any unused openings shall be closed using certified Ex ta blanking elements or stopping plugs. All sealing devices, including cable glands, blanking elements, thread adapters, and stopping plugs, shall be certified for the type of protection Ex ta. They shall be suitable for use in Group IIIC atmospheres, for an ambient temperature range of -20°C to +60°C, and shall be appropriately sized for the installed cabling.

Safety Terms and Symbols



WARNING: Do not open enclosure when an explosive atmosphere is present



WARNING: Potential electrostatic charging hazard – see instructions



WARNING: Warning statements identify conditions or practices that could result in injury or loss of life. Risk of electrical shock.



CAUTION: Caution statements identify conditions or practices that could result in damage to this product or other property.

1.0 INTRODUCTION

The BinMaster VRX vibrating probes are point level controls used to detect the presence or absence of granular or powdered material. The vibrating probe operates by exciting the blade of unit to cause it to vibrate at its mechanical resonance frequency of about 290 Hz. When material covers the blade of the probe, the vibration stops. This is sensed by the electronic circuitry causing the relay contacts to change status.

When the blade becomes uncovered, the vibration will restart and the relay contacts will change back. Since only the end of the vibrating blade is sensitive and not the base, buildup on the vessel wall has no influence on the sensor. The shape of the blade and its vibration have a self-cleaning effect.

2.0 APPLICATIONS

The BinMaster VRX vibrating probe can be used in bins, silos, and hoppers to detect many different granular or powdered materials. The following list shows some of these materials:

Animal feed	Powdered cellulose
Beans	Powdered clay
Chalk	Powdered milk
Coffee beans	Salt
Coffee (freeze-dried)	Soda ash
Coffee (ground)	Soot (dry pellets)
Flour	Spices
Foundry sand	Styrene chips
Frozen potato chips	Sugar
Glass (finely ground)	Sweets
Granular plastics	Styrofoam™
Gravel	Tea (leaf)
Peanuts	Tobacco
Polystyrene powder	Wood shavings

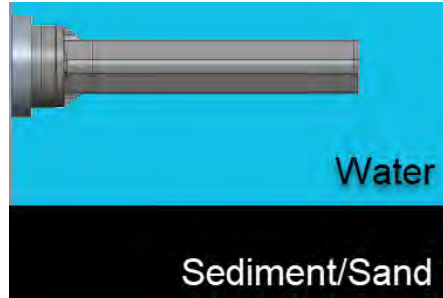
3.0 VERSIONS

The BinMaster VRX is available in 6 different versions:

- VRX21 - 1.25" & 1.5" NPT mount, standard insertion length 7.5" (190mm)
- VRX31 - 2" sanitary Tri-clamp, insertion length 11.81" up to 78.74"
- VRX41 - 1.25" & 1.5" NPT mount, with threaded pipe extension for insertion length from 13" up to 13 ft.
- VRX51 - 1.5" NPT mount, with cable extension for insertion length from 19" up to 19.5 ft.
- VRX61 - 1.5" NPT mount, insertion length 7.25"
- VRX71 - 1.5" NPT mount, insertion length 10.25" up to 160"

3.1 SEDIMENT MODEL

BinMaster VRX Sediment is a specialized configuration of the VRX21/VRX41 level control instrument. It is designed to detect the level of solid material that has settled in water. A typical application is the detection of sand in front of pumping systems.



SPECIAL INSTRUCTIONS FOR SEDIMENT MODEL VIBRATING PROBE

General:

This special sediment model vibrating probe is tuned to work (vibrate) in water. This means that it may not vibrate in air which would result in a covered indication. To test the sediment model vibrating probe, you have to put the vibrating blade into water. The sediment model is not usable for detecting liquids or solids in air. The blade of the BinMaster VRX Sediment must have a distance of at least 4" (100mm) to the container wall. If the blade gets closer than this to the container wall, then the vibration could be damped by reflections of the container wall.

Sensitivity:

This setting depends on the weight of the settled material and the water/material mixture.

Hi, Higher Sensitivity: The vibration gets damped earlier. Depending on the density of the material, the relay will switch when the water/material mixture on top of the settlement just reaches the vibrating blade.

Lo, Lower Sensitivity: The vibration gets damped later, to allow the vibrating blade to be fully covered by settled material.

3.2 High Temperature Model

The VRX21 and 41 have an optional higher operating temperature probe available, known as an "HT" probe. This probe is the same mechanical device with higher operating temperature internals. This probe has an upper process temperature limit of 284°F. Probes with even higher operating temperatures are available on the VRX61 and VRX71.

3.3 Super High Temperature Model, VRX61 and 71

The VRX61 and VRX71 probes are specially engineered for extreme heat environments and are rated to function at up to 500°F process temp. They are functionally identical to the other probes but are built to withstand higher temperatures.

3.4 Hanging Probe Details VRX51

The VRX51 is a special model of VRX that hangs into a tank or process by a steel cable. It is functionally similar to the other VRX models, but considerations need to be made to ensure proper operation and longevity of the probe. The probe should only be able to touch material being measured from its hanging location. Especially ensure that the probe cannot impact on or rub against any metal. Consider material height changes and flow characteristics when making this judgment.

Function:

A piezo system brings the probe to vibrate at its resonant frequency. The vibrating system is tuned to work in water. If solid material covers the probe, it damps the vibration. An electronics circuit switches a binary output signal. When the probe gets uncovered, it starts vibrating again and the output switches back.

4.0 INSTALLATION

4.1 Location and Mounting

Figure 1 shows the typical installation possibilities of the BinMaster VRX units.

The BinMaster VRX21 is installed by screwing the male mounting threads into a 1.25" or 1.5" NPT coupling or mounting flange. Use a 2" (50mm) wrench to tighten the unit into the mounting socket.

The VRX31 is installed by passing the vibrating probe blade portion through the mounting hole, then aligning the tri-clamp gasket (not provided) and devices integrated 2" tri-clamp into the vessel's tri-clamp ferrule mount.

The VRX41 is installed by passing the vibrating probe blade portion through the mounting hole, then screwing the device's male mounting threads into a 1.5" NPT coupling or mounting flange. Use a wrench on the hex flats to tighten the unit into the mounting coupling or flange.

The VRX51 is installed by passing the vibrating rod blade portion and cable through the mounting hole, then screwing the device's male mounting threads into a 1.5" NPT coupling or mounting flange. Use a 1-11/16 inch wrench to tighten the unit into the mounting coupling or flange.

The VRX61 is installed by screwing the male mounting threads into a 1.5" NPT coupling or mounting flange. Use a 2" (50mm) wrench to tighten the unit into the mounting socket.

The VRX71 is installed by passing the vibrating probe blade portion through the mounting hole, then screwing the device's male mounting threads into a 1.5" NPT coupling or mounting flange. Use a 2" (50mm) wrench to tighten the unit into the mounting coupling or flange.

If side mounting any VRX, it must be turned until the blade is vertically-oriented, so that material can flow freely over the blade and does not rest on it causing false alarms. Use the round indentation on the 2" hex collar to identify the blade orientation. When the indentation is up the blade is oriented correctly. Refer to Figure 1 for a view of blade orientation.

WARNING: Do not screw in by turning the enclosure housing!

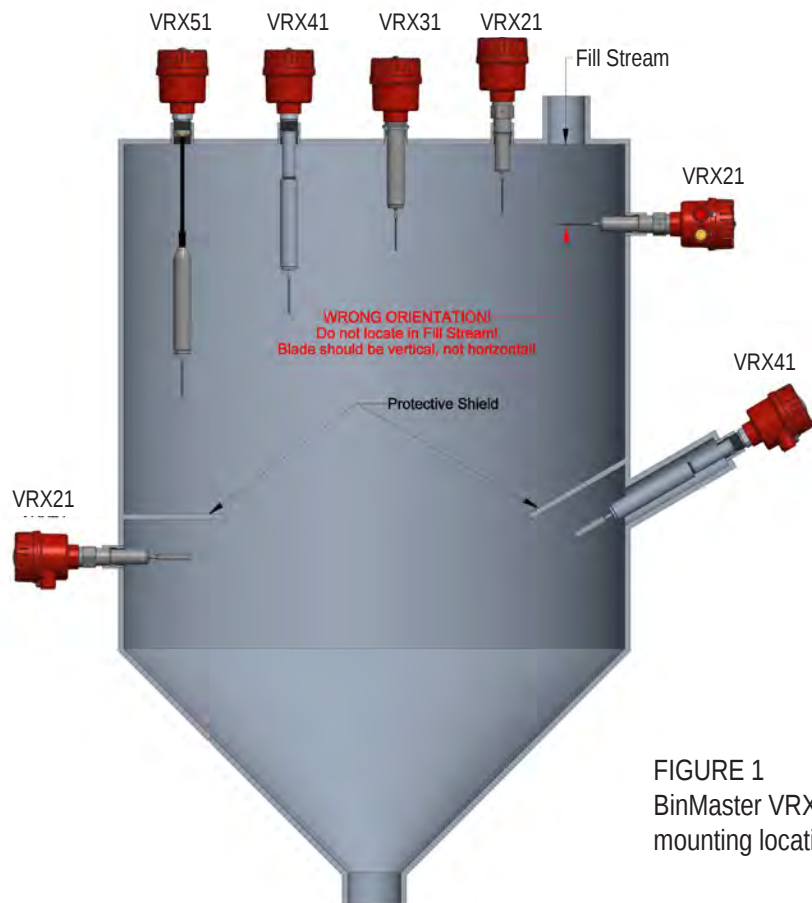


FIGURE 1
BinMaster VRX series
mounting locations

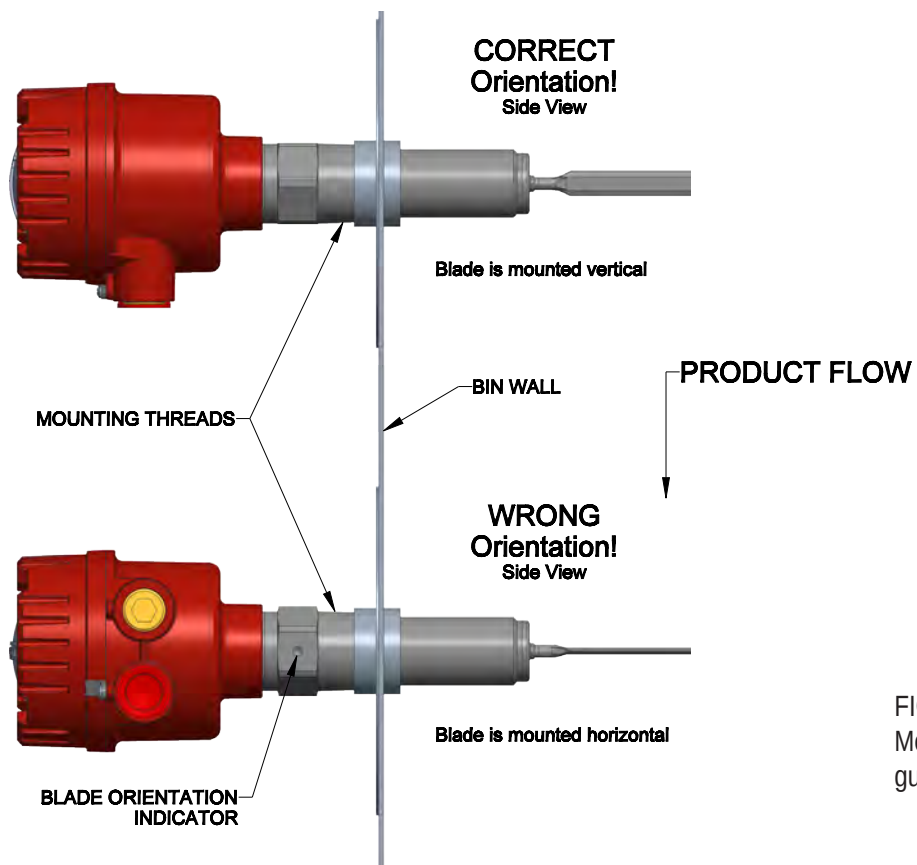


FIGURE 2
Mounting orientation
guidelines

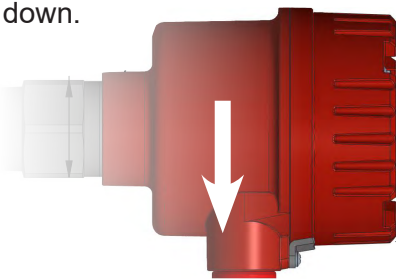
MOUNTING

Use the hex flats provided on the process connection for tightening the instrument into the mounting coupler or mounting plate.

The enclosure can be rotated 270 degrees after the process connection is tight. NOTE: For side mount application, rotate enclosure conduit entries DOWN after the process connection is tight.

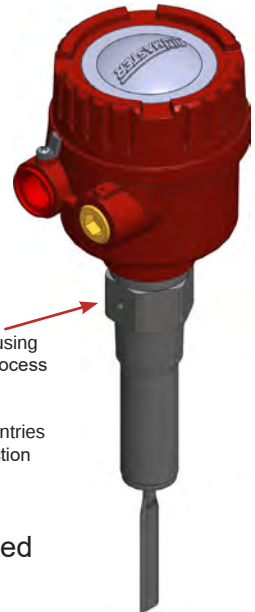
MOUNTING ORIENTATION (Side Mount)

To prevent moisture or humidity from entering the unit, the rotary MUST be mounted with the conduit entries facing down.



Note: Tighten/loosen only using the flats provided on the process connection.

Rotate enclosure conduit entries down after process connection is tight.



Conduit Seal

When installing the rotary in environments where moisture or moist air may enter the unit through the electrical conduit, the conduit openings should be sealed with an appropriate duct seal compound or putty.

NOTE: Conduit entries must be fitted with a suitable sealing device for the Hazardous Location. All unused conduit entries must be sealed and if any conduit entry blanking plugs are removed or replaced, they must be fitted with a suitable certified sealing device.

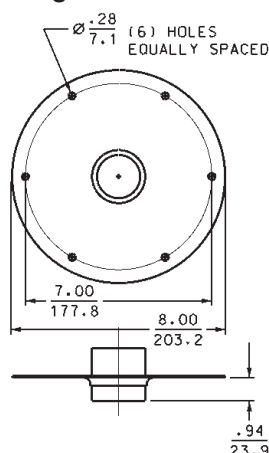
Mounting Plates

Mounting plates are needed when a completely assembled VRX is mounted on the bin wall from the outside. Cut a 5.5" hole in the bin. Drill six bolt holes around the hole to match the mounting plate. Bolt the plate, with the unit attached, into place. Mounting plates are available in carbon or stainless steel

Figure 4

Full Coupling

For use with all VRX level controls. Full coupling is used for top of bin installations where shaft extensions and shaft guards are used.



Half Coupling

For use with all VRX level controls. Half coupling is used primarily for side of bin installations.

Figure 5

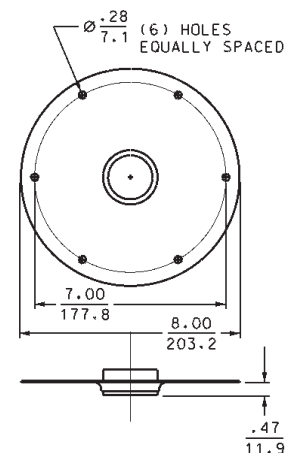




FIGURE 3
VRX models
& mounting

4.2 INPUT POWER AND FIELD WIRING

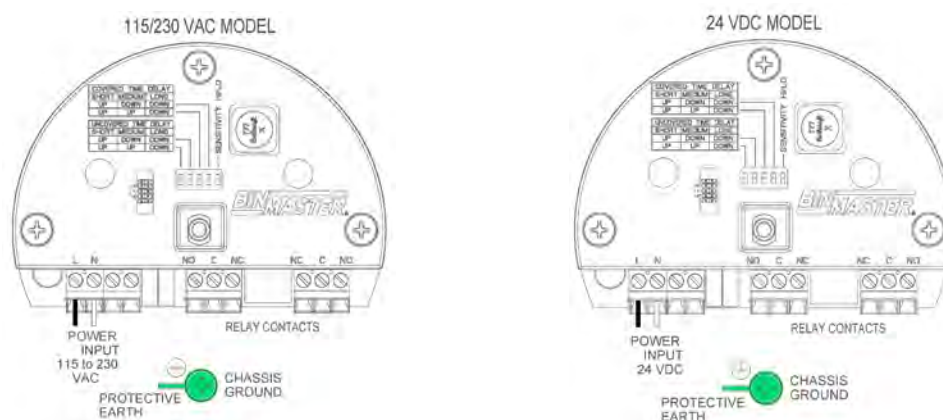
BinMaster VRX units have a 115/230 VAC/VDC model and a low voltage 24 VDC model.

NOTE: Verify the voltage input specifications on the nameplate before wiring.

The terminals on the circuit board for the power supply and the relay contacts allow for a conductor size of 12 to 24 AWG. An equipment grounding connection (earth ground) should be supplied to the unit for safety. See the diagram below for terminal and component identification. Field wiring should conform to all national and local electrical codes and any other agency or authority having jurisdiction over the installation.

The installation must have a switch or circuit breaker supplying the VRX, installed in a easily accessible location and clearly marked as the disconnection device. A circuit breaker should be 20A maximum.

The supply protective earth wiring should be connected to the green ground screw labeled protective earth in the wiring illustration. The terminal / boss is marked with a ground symbol in the base of the enclosure next to the boss and is the only earth connection to the instrument. An external equipotential bonding connection where local authorities permit or require such a connection. 12 AWG wire size minimum.



5.0 RELAY CONTACTS

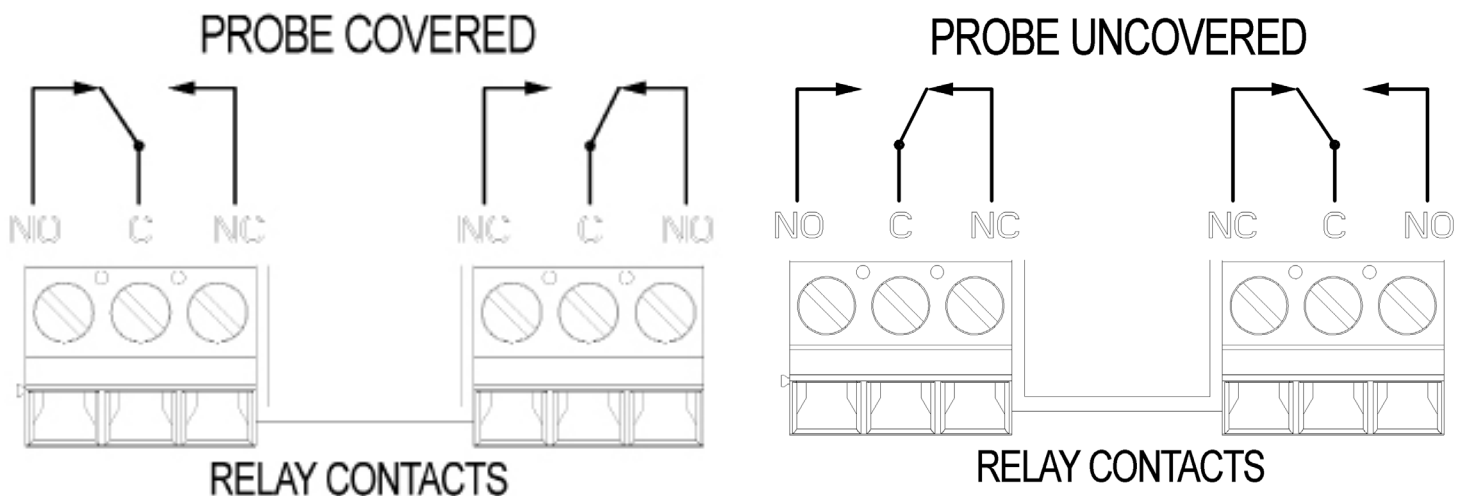
5.1 Activation delay settings

There is a short delay from when the probe detects that it is covered to when the probe indicates that it is covered, both with regard the light ring and the relay output. This delay is configurable to allow for both process flexibility and incidental contact compensation. The same is also true for transitioning to an uncovered state. There is also a short delay ~1 second from when the probe is uncovered to when it indicates as such. This delay is also configurable in the same manner.

The delays are configured by adjusting the positions of the dip switches inside the lid of the sensor. The positions required for various delays are indicated by the artwork on the top left of the board cover, as shown below. The estimated delay times are listed below as well. These vary slightly as the electrical components are affected by ambient temperature. Short: ~1s Medium: ~6s Long: ~20s.

The sensor will come from the factory preset to the short delay for both covered and uncovered.

5.2 There are 2 DPDT Relay outputs used to signal the condition of the sensing probe, either COVERED or UNCOVERED depending on whether material in the vessel has covered the sensing probe. Each relay has C (common), NO (normally open) and NC (normally closed) wiring terminals.



6.0 LIGHT RING STATUS INDICATION

The visual LED array indicates the status of the sensor. The 3 statuses are:

Probe uncovered:	Rotating GREEN LED
Probe covered:	Solid RED LEDs
Loss of input power:	LEDs OFF

8.0 REMOTE ELECTRONICS INSTALLATION

In some applications, such as excessive vibration or ambient temperatures above +140° F, it may be necessary to locate the electronic circuit board away from the vibrating rod. In these applications, a separate remote enclosure is used to mount the circuit board, and a special cable with individually shielded conductors is used to interconnect the circuit board to the vibrating probe unit. The remote electronics option is available for the VRX21, VRX31, VRX41, VRX51, VRX61, and VRX71 vibrating probes.

Figure 6 shows the mounting hole locations for the remote electronics enclosure. The interconnecting cable connections are also shown in Figure 6. The input power is supplied to the remote electronics and the special individually shielded conductor cable is routed between the remote electronics and the vibrating probe. The interconnect cable will have a wire connecting terminal "T" on the remote board to terminal "T" in the vibrating probe; terminal "R" on the remote board to terminal "R" in the vibrating probe; and signal ground on the remote board to signal ground in the vibrating probe.

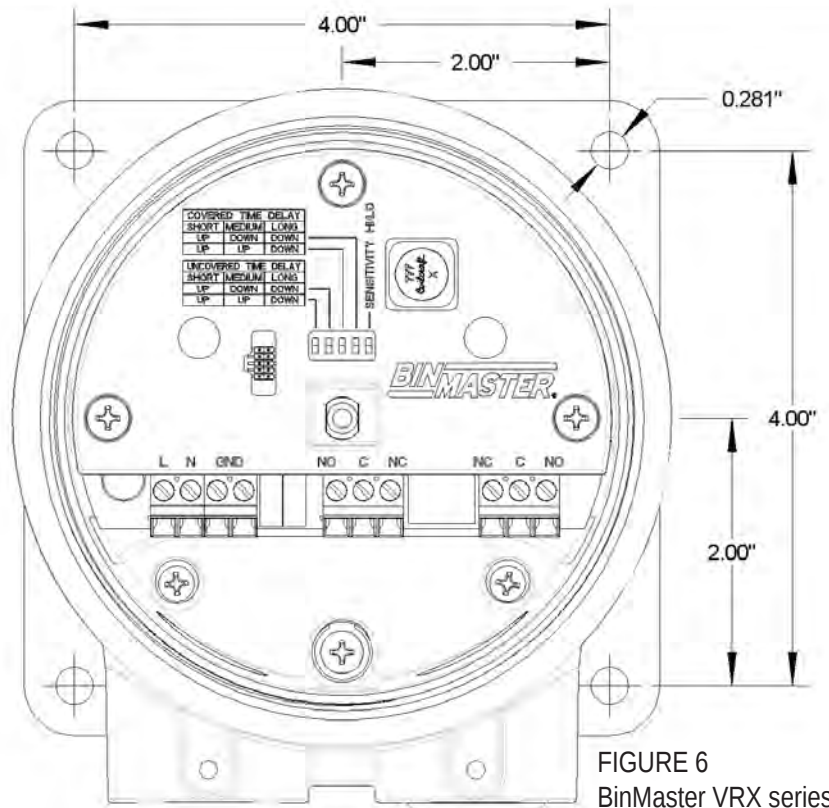
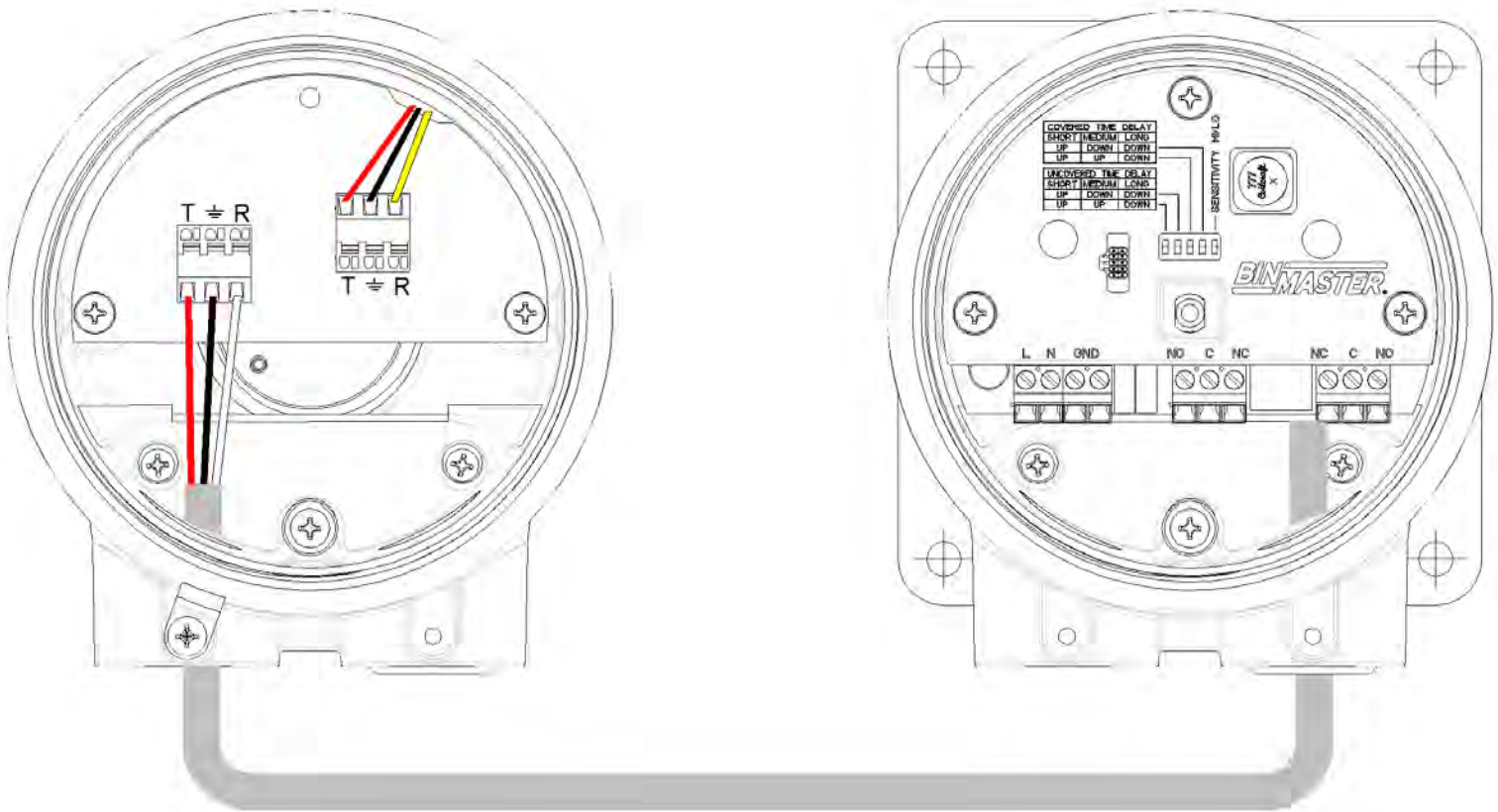


FIGURE 6
BinMaster VRX series
mounting hole locations



9.0 TERMS AND CONDITIONS - WARRANTY

Refer to the official terms and conditions - warranty found here:

<https://www.binmaster.com/terms-conditions>

9.1 CUSTOMER SERVICE & TECH SUPPORT

BinMaster's toll-free Customer Service phone number is (800) 278-4241. Call the Technical Service Department for support 8 a.m.-5 p.m., Monday through Friday, Central Time. International customers call (402) 434-9100 or techsupport@binmaster.com. More at support.binmaster.com.

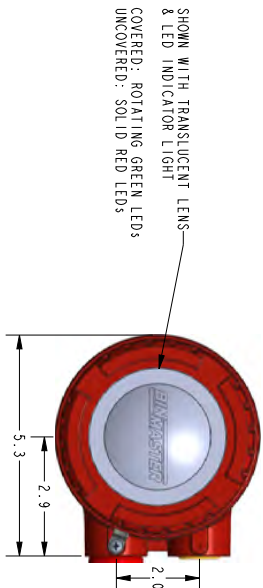
10.0 DISPOSAL

This product contains recyclable materials and electronics that can be easily separated and recycled by specialized recycling companies. Consult local authorities for proper disposal locations.

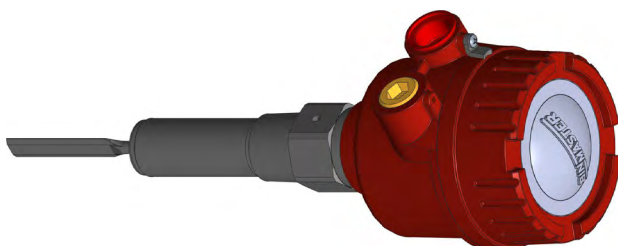
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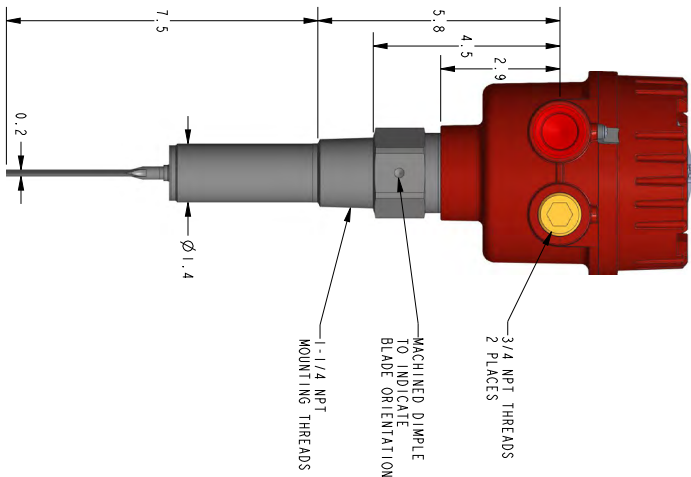
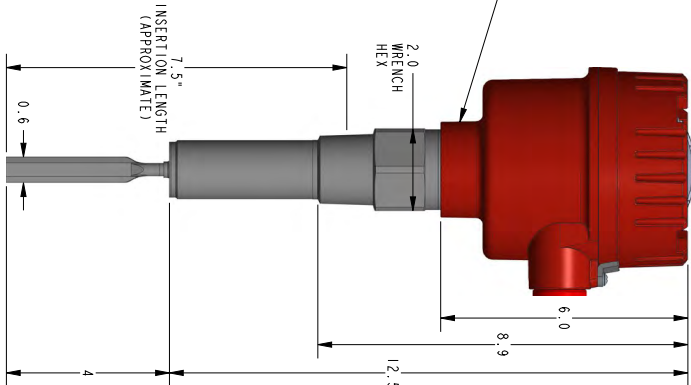


SHOWN WITH
1-1/4 NPT PROBE



NOTE: REMOTE ELECTRONICS, SEDIMENT & HIGH TEMP. VERSIONS ARE ALSO AVAILABLE

ENCLOSURE BODY ROTATES 270° INDEPENDENTLY FROM VIBRATING ROD ALLOWING CONDUIT ENTRIES TO BE POSITIONED PROPERLY PER APPLICATION



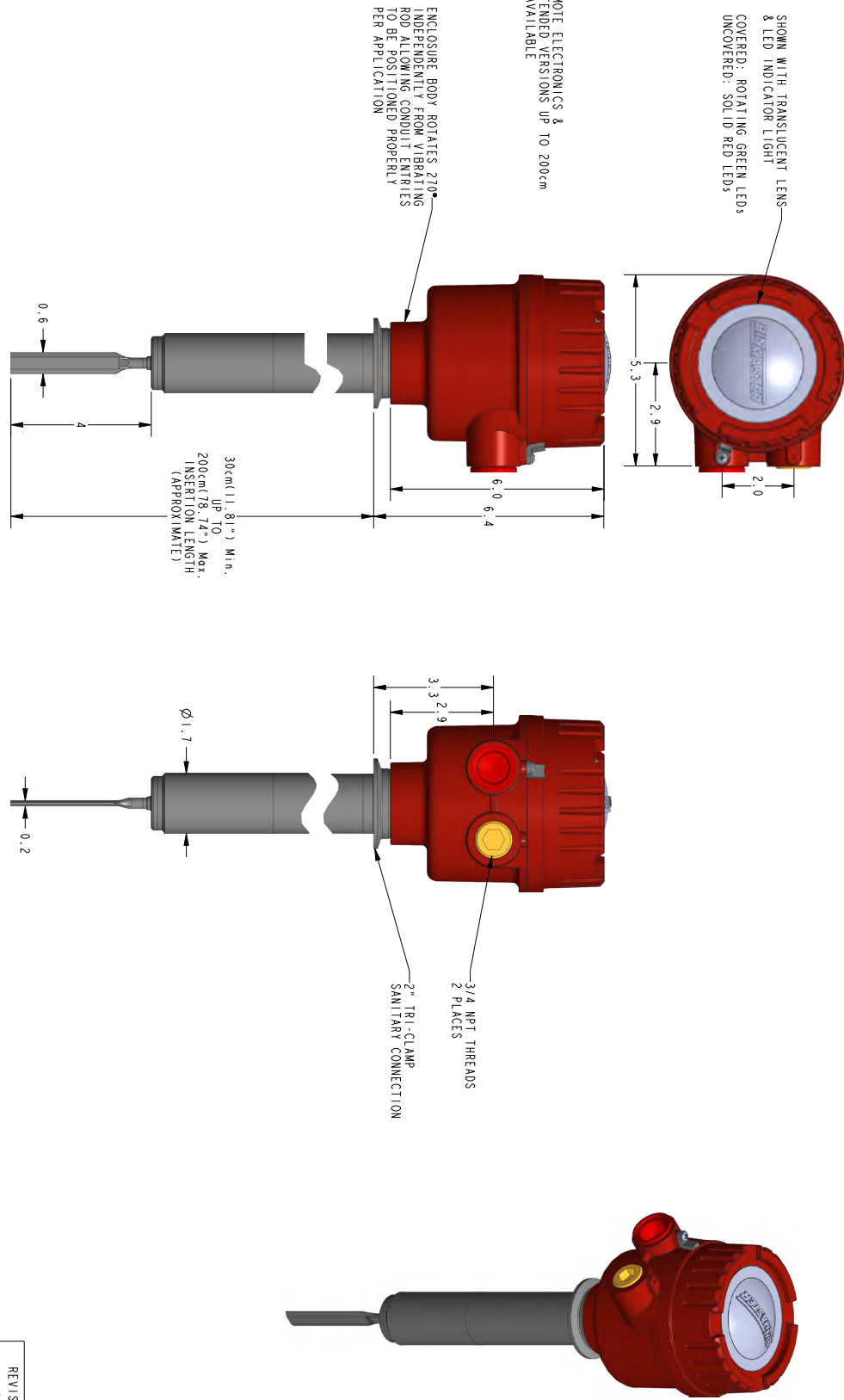
TITLE: MTG DIM, VRX21 VIBRATING ROD

DWG No.: 418-0302

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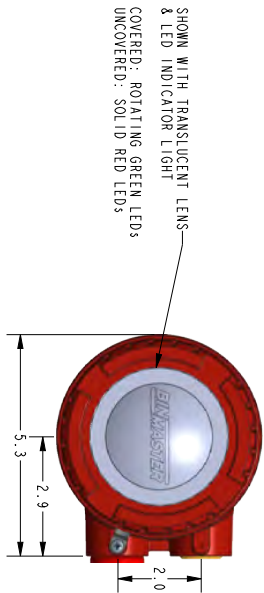
NOTE: REMOTE ELECTRONICS & CUSTOM EXTENDED VERSIONS UP TO 200cm ARE ALSO AVAILABLE

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DWG No.: 418-0303	REVISION SHEET 1 OF 2

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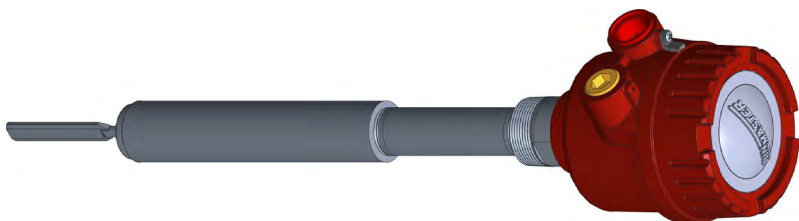
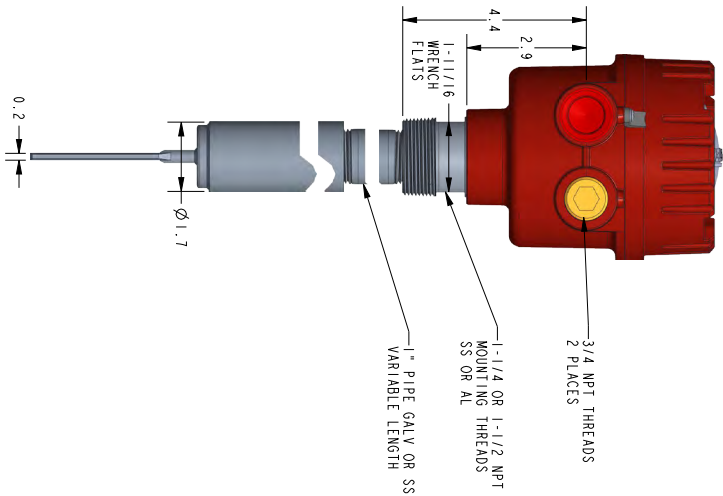
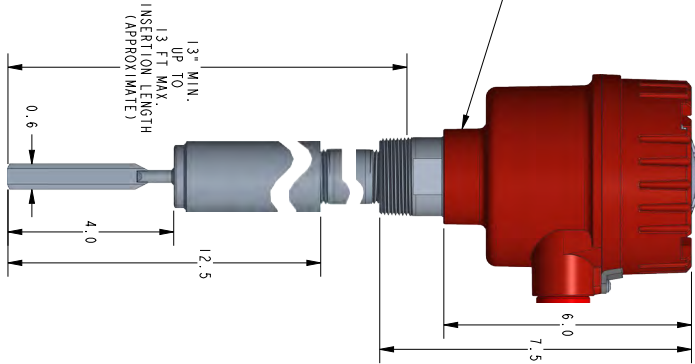
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ENCLOSURE BODY ROTATES 270° INDEPENDENTLY FROM VIBRATING ROD ALLOWING CONDUIT ENTRIES TO BE POSITIONED PROPERLY PER APPLICATION



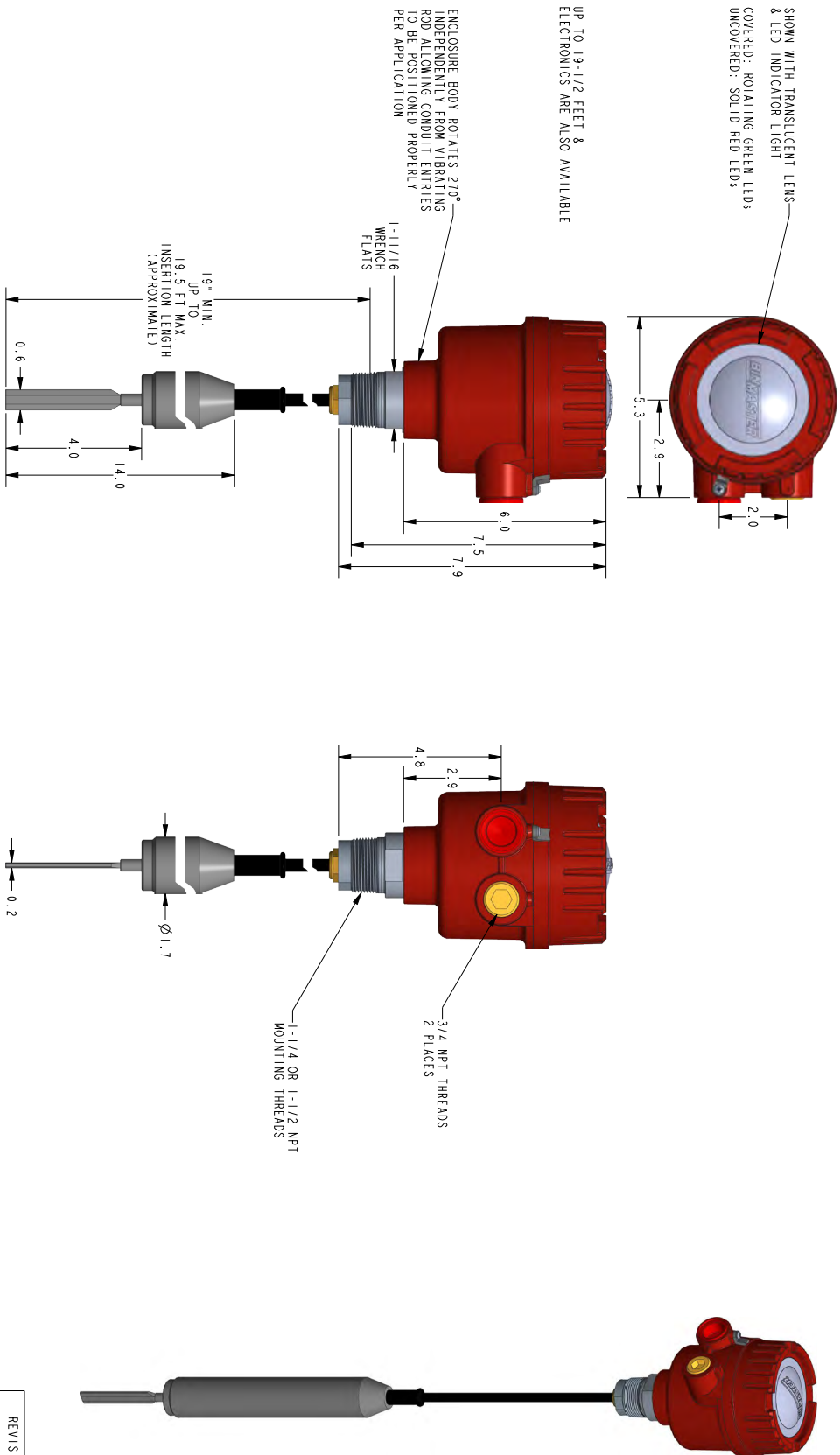
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NOTE: REMOTE ELECTRONICS, SEDIMENT & HIGH TEMP. VERSIONS ARE ALSO AVAILABLE

ENCLOSURE BODY ROTATES 270°—
INDEPENDENTLY FROM VIBRATING
ROD ALLOWING CONDUIT ENTRIES
TO BE POSITIONED PROPERLY
PER APPLICATION

Technical drawing of the 7.25° Hex Drill Bit showing dimensions:

- Total length: 15.2
- Flute length: 6.0
- Hex diameter: 2.0
- Insertion length (approximate): 7.25°
- Shank diameter: 1.1

12.3

10.6

9.6

2.9

1.1

1-1/2 NPT MOUNTING THREADS

MACHINED DIMPLE TO INDICATE BLADE ORIENTATION

3/4 NPT THREADS 2 PLACES

1000

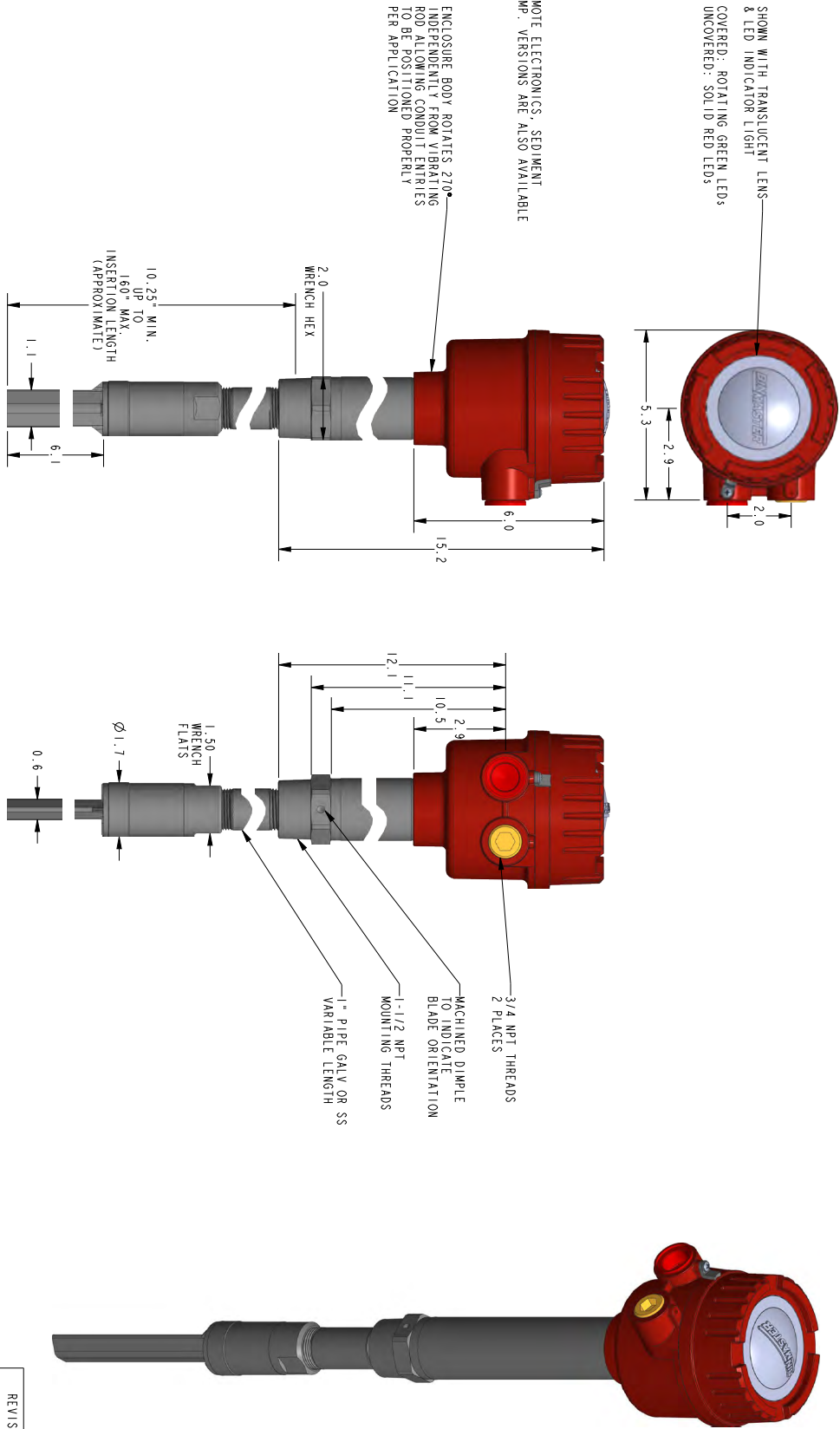
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DWG No.: 418-0306

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NOTE: REMOTE ELECTRONICS, SEDIMENT & HIGH TEMP. VERSIONS ARE ALSO AVAILABLE

ENCLOSURE BODY ROTATES 270° INDEPENDENTLY FROM VIBRATING ROD ALLOWING CONDUIT ENTRIES TO BE POSITIONED PROPERLY PER APPLICATION

WRENCH HEX

10.25\"/>

1.1

6.1

3/4 NPT THREADS 2 PLACES

MACHINED DIMPLE TO INDICATE BLADE ORIENTATION

1-1/2 NPT MOUNTING THREADS

1\"/>

1.50 WRENCH FLATS

Ø 1.7

0.6

TITLE: MTG DIM, VRX71 VIBRATING ROD

DWG No.: 418-0307

REVISION
SHEET 1 OF 2

EU/IEC Declaration of Conformity

Manufacturer:

BinMaster Sensors and Technologies LLC
2021 Transformation Drive Suite 2230
Lincoln, NE 68508 USA
Phone: 402-434-9100

BinMaster Sensors and Technologies LLC declares under our sole responsibility that all models of the VRX level control devices listed below comply with the following directives and harmonized standards. This product if installed, operated and maintained as described in this manual will provide a safe and reliable level control for bulk solid materials.

Product: VRX-X1 Level Controls

Models: VRX-21, VRX-31, VRX-41, VRX-61, VRX-71

Manufacturing Location:

BinMaster Sensors and Technologies LLC
3435 Schworer Drive
Lincoln, NE 68504 USA

ATEX Directive 2014/34/EU

ATEX Classification  II 1D Ex ta IIIC T135°C Da (Ta = -20°C to +60°C)
IECEx Ex ta IIIC T135°C Da (Ta = -20°C to +60°C)

Examination certificates:

ETL26ATEX0741X
IECEx ETL26.0046X

Harmonized standards:

IEC 60079-0:2017 Ed.7
IEC 60079-31:2022 Ed.3
IEC 61010-1:2017 Ed.3.1

Notified Body:

Intertek 2903

All test reports and documentation are held and can be obtained from BinMaster Sensors and Technologies.

Location: Lincoln, Nebraska, USA

Doug Hartzell
Senior Design Engineer
7/1/2026