

# ACCU-SORT®

## AXIOM™ Line Bar Code Reader Quick Reference Guide



### An AXIOM typically includes:

- AXIOM Scan Head
- Wiring Base
- Power Supply

### Options that may be included:

- Universal Mounting Bracket
- Trigger Photoeye

### Time Required: 45 minutes / unit

- Mechanical installation (30 minutes)
- Electrical installation (15 minutes)
- Setup (see AXCESS Quick Reference Guide)

### Tools Required:

- Phillips Long-Handled #2 Screwdriver
- Slotted screwdriver (1/8")
- Adjustable Wrench (open-ended)
- Tape Measure

### Quick Start References:

- AXIOM/AXIOM-X Product Line Manual
- Mounting structure drawings

### Other Useful References:

- AXCESS for AXIOM Quick Reference Guide
- Interconnect drawings located in AXIOM/AXIOM-X Manual, App. E (p.209):
  - 107480 - Controller/Client with Tach
  - 107481 - Controller/Client/Client w/Tach
  - 107482 - Start/End Trigger Photoeyes
  - 107483 - Stack Light with Internal Relays

**NOTICE:** Application-specific documentation provided with your equipment may supersede the information provided here.

## Introduction

The AXIOM is designed for easy installation and setup. Use this guide as a cross reference to locate the content you need in the **AXIOM/AXIOM-X Product Line Manual**.

## Safety Precautions (Chapter 2)

Observe all safety precautions regarding:

- Power, electrical, grounding (p. 13)
- Electrostatic discharge (ESD) (p. 14)
- Laser Exposure (p. 15)



Observe Laser Safety Warnings on AXIOM

## Mechanical Installation (Chapter 3, see also mounting illustrations, side 2)

1. Assemble mounting structure according to your mounting diagram, if applicable.
2. Mount wiring base in the defined location using orientation consideration as a guideline (p. 19-21). A universal mounting bracket is available (p. 24-26).
3. Mount the Trigger Photoeye and reflector (p. 30).
4. Mount the tachometer, if applicable (p. 33).
5. Install optional I/O modules into wiring base, if applicable (p. 34-35).

## Electrical Installation (Chapter 4, Appendix E)

Use the wiring base label (see side 2) as a reference when performing electrical installation.

1. Properly ground wiring base to protective earth (PE) ground (p. 46-47).
2. Connect power supply to wiring base and perform polarity check (p. 51-53).
3. Connect Trigger photoeye to Trigger terminal blocks (p. 54).
4. Connect tachometer to TACH terminal blocks and use ferrite clamps (p. 55-56).
5. Connect RS232/422 communications to SERIAL COM terminals (p. 57).
6. Connect Ethernet communications to ETHERNET terminals (p. 58).
7. Connect I/O module wiring to I/O 1 through I/O 4, as required (p. 59-60).
8. Install scan head to wiring base as outlined in Chapter 3 (p. 39-42).



Installing Scan Head to Wiring Base

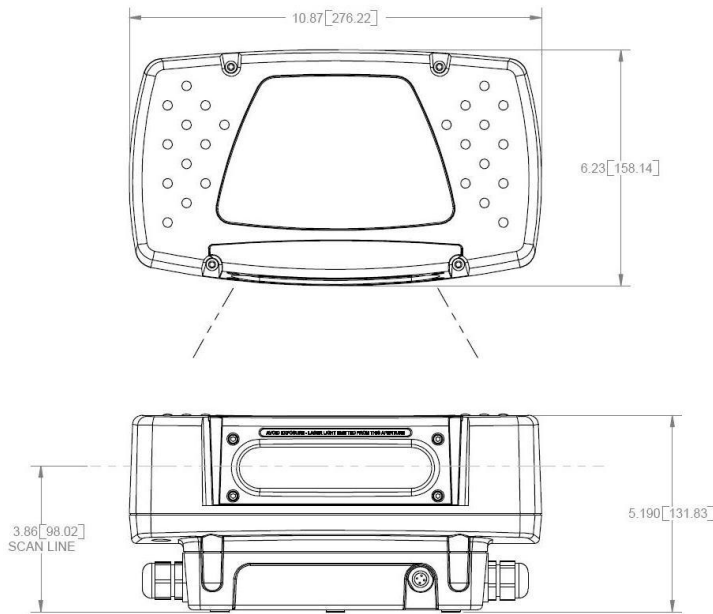
## Setup and Operations (Chapter 5 and 6)

1. Use the first-time startup / setup procedures and operations checklist (p. 118-119).
2. Use AXCESS and a setup cable (p. 71) or network connection (p. 73) to modify operating parameters (p. 75-104).
3. Monitor operations using AXIOM Monitor and Log Viewer diagnostics (p. 124).
4. Backup parameters to the wiring base using AXCESS or the connector panel (p.104).

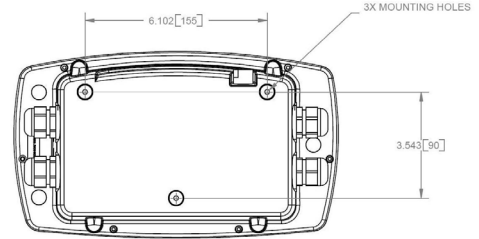
# AXIOM™ Quick Reference Guide

## Mounting Dimensions

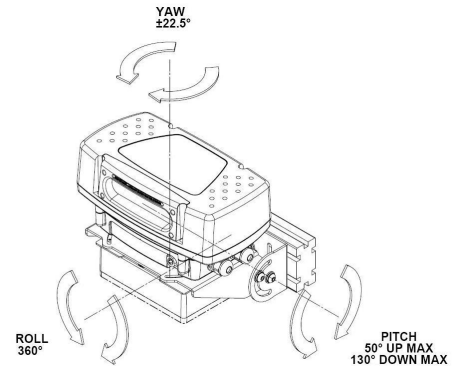
(See Appendix E for dimensions with Universal Mounting Bracket (UMB))



## Mounting Footprint

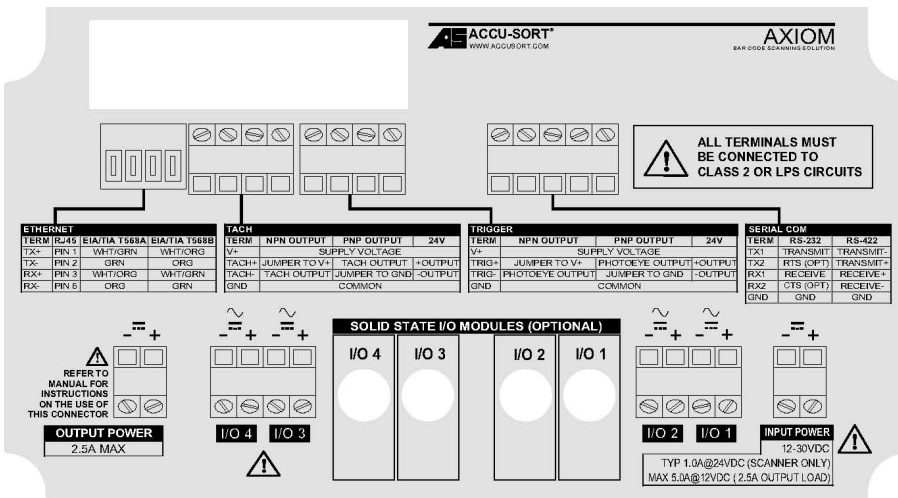


## Range of Motion with UMB



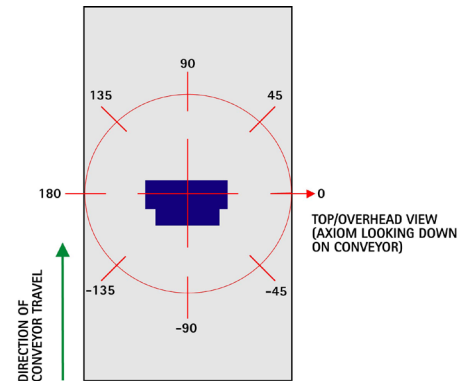
## Wiring Base Label

Use the **diagrams** on the wiring base label to determine the proper connections for power, trigger, tachometer, communications and I/O (pgs. 51-60).



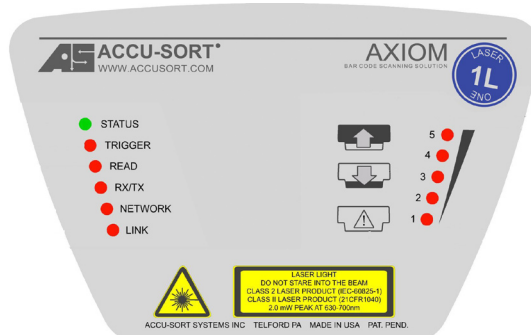
## AXIOM Orientation to Bar Code Scanning Area

(See pg. 21, 97-102)



## AXIOM Control Panel

Use the **AXIOM control panel** to monitor operational status including trigger, communications and read quality (pgs. 120-121, 140-141).



Need further assistance?  
Contact Accu-Sort Technical Support:

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