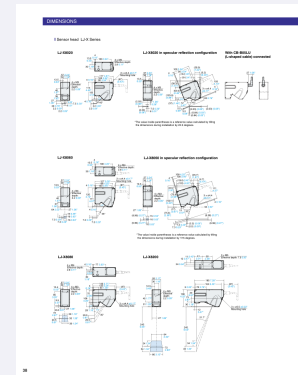


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

KEYENCE LJ-X8080

2D/3D laser profiler sensor head



PRODUCT	LJ-X8080
FAMILY	LJ-X8000 Series
FUNCTION	2D/3D laser profiler sensor head
STATUS	Verify exact configuration

Prepared by Amikon Limited from KEYENCE LJ-X8000 Series catalog and exact-model page. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Reference distance	73 mm
Z-axis measurement range	±20.5 mm; full scale 41 mm
X-axis width	30 mm near; 35 mm reference; 39 mm far
Light source	405 nm visible blue semiconductor laser
Laser class and output	Class 2M; 10 mW
Spot size	Approx. 44 mm × 72 µm at reference distance
Z-axis repeatability	0.5 µm under manufacturer test conditions

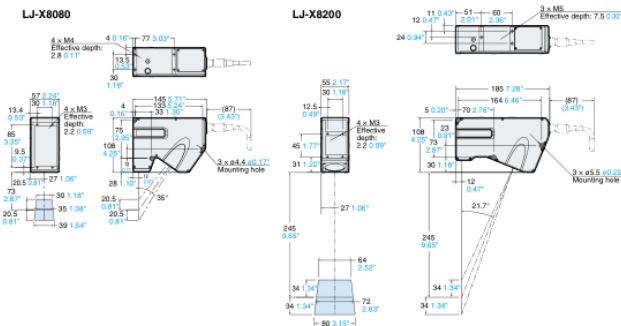
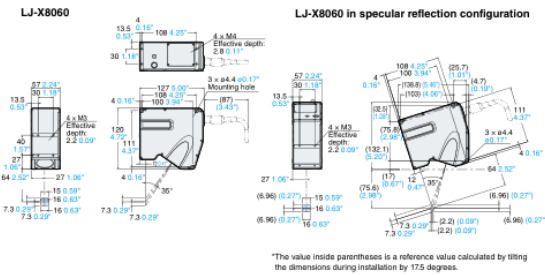
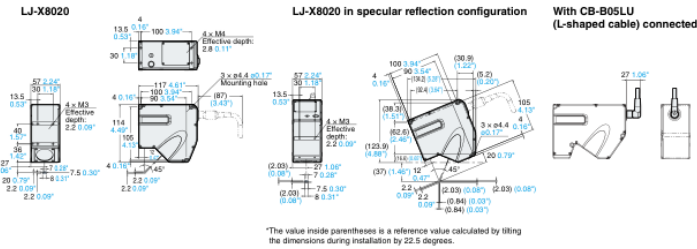
02 MOUNTING AND CONNECTION

- Confirm the LJ-X8080 nameplate and compatible LJ-X8000 controller before installation.
- Mount the head to a rigid metal plate using the official dimensional drawing and M4 mounting points.
- Maintain the 73 mm reference distance and keep the measurement path clear of obstruction.
- Connect only the specified KEYENCE head cable; IP67 depends on the documented cable connection.
- Prevent direct or optically aided viewing of the Class 2M laser beam and apply site laser controls.

OFFICIAL INSTALLATION REFERENCE

DIMENSIONS

I Sensor head LJ-X Series



04

CABLE ROUTING AND CONNECTION

- Mount the head to a rigid metal plate using the official dimensional drawing and M4 mounting points.
- Maintain the 73 mm reference distance and keep the measurement path clear of obstruction.
- Connect only the specified KEYENCE head cable; IP67 depends on the documented cable connection.
- Prevent direct or optically aided viewing of the Class 2M laser beam and apply site laser controls.
- Commission the system with a traceable reference target and verify profile stability before production use.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Verify profile stability, reference measurements and inspection outputs.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	KEYENCE LJ-X8000 Series catalog and exact-model page
Product record	LJ-X8080
Manufacturer	KEYENCE
Support	INFO@AMIKON.CN