

SZ-VH1

Safety Laser Scanner Head

CONTROLLED ENGINEERING COPY

Mount SZ-VH1 where the complete protective field is visible, apply the safety-distance calculation, lock the configuration, and validate every zone, restart condition, and stop response before operation.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	SZ-VH1
Manufacturer part	SZ-VH1
Hardware type	Standard
System family	KEYENCE SZ-V safety laser scanner



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01 PRE-INSTALLATION PLAN

- 1

Verify SZ-VH1 and the paired SZ-V controller before installation.
- 2

Place the safeguarded machine in a controlled lockout state.
- 3

Prevent optical-window contamination, impact, and mounting-bracket movement.
- 4

Confirm the 190-degree scan plane is free of unvalidated blind areas.
- 5

Configure protection and warning zones from the approved risk assessment.

MATCHED HARDWARE

- SZ-V controller unit
- approved head cable
- machine safety circuit
- rigid protective mount

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	SZ-VH1 / SZ-VH1 recorded
Physical interface	SZ-V controller unit
Companion check	approved head cable
Functional proof	Scans the configured protective field around machinery
Application test	Robot-cell perimeter guarding

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Head type	Standard
Laser wavelength	905 nm infrared
Laser classification	Class 1
Detectable angle	190 degrees
Degree of protection	IP65

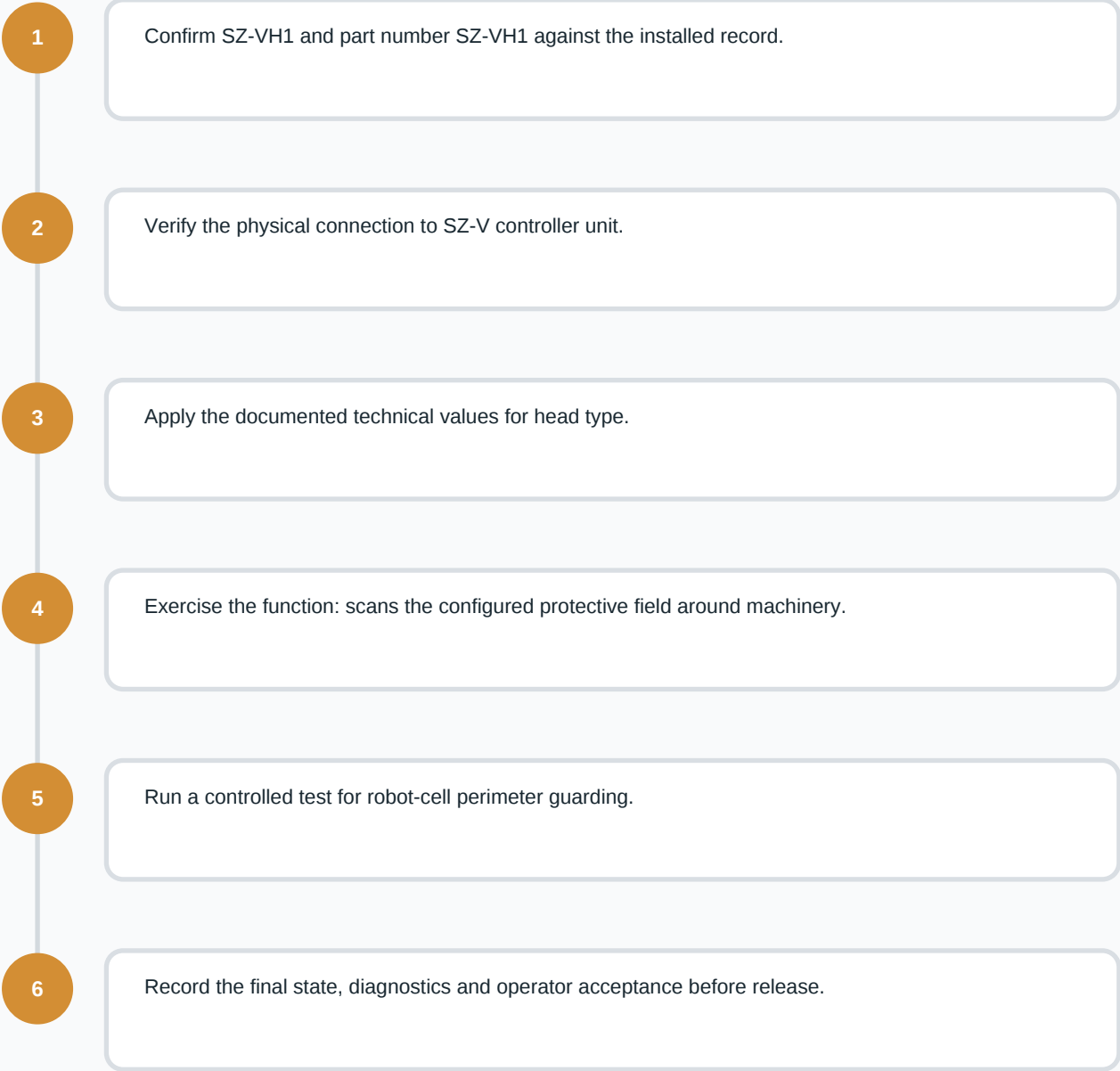
SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	SZ-V controller unit
Companion hardware	approved head cable
Field connection	machine safety circuit
Primary system function	Scans the configured protective field around machinery
Controlled acceptance duty	Robot-cell perimeter guarding

FIELD NOTE

Mount SZ-VH1 where the complete protective field is visible, apply the safety-distance calculation, lock the configuration, and validate every zone, restart condition, and stop response before operation.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	SZ-VH1 / SZ-VH1 recorded
Physical interface	SZ-V controller unit
Companion check	approved head cable
Functional proof	Scans the configured protective field around machinery
Application test	Robot-cell perimeter guarding

04 RETURN-TO-SERVICE RECORD

- ☐ Verify safety distance includes machine stopping time and response delays.
- ☐ Challenge every zone boundary and test restart-interlock behavior.
- ☐ Record validation results and secure configuration access before release.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GT2-H32	High-accuracy digital contact sensor head	Open product page

SOURCE IDENTIFIERS

KEYENCE SZ-VH1 Model and Series Specifications

SZ-VH1

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