H7506

HIMax and HIQuad Bus Terminal

HIMA H7506 is a bus terminal used in approved HIMax and HIQuad safety-system arrangements. It terminates the installed system bus so communication operates within the documented hardware topology.

PRODUCT SNAPSHOT

BRAND	FAMILY
HIMA	HIMA HIMax / HIQuad Safety Systems
PART	HS CODE
H7506	8537101190

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

HIMA H7506 is a bus terminal used in approved HIMax and HIQuad safety-system arrangements. It terminates the installed system bus so communication operates within the documented hardware topology.

1. Terminates the system bus in an approved HIMA installation
2. Supports defined bus-end electrical conditions for system communication
3. Forms part of the certified HIMax and HIQuad accessory set
4. Provides a replaceable bus-interface endpoint for maintenance

SYSTEM COMPONENTS

- HIMA system bus
- approved HIMax or HIQuad baseplate
- 24 Vdc system supply
- certified communication modules

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
52100	Planar4 time delay element	**Open product page**
K7214	HIQuad X current distribution	**Open product page**
H7506	HIMax and HIQuad bus terminal	**Open product page**

TECHNICAL DATA

PARAMETER	VALUE
Accessory type	Bus terminal
Approved system context	HIMax and HIQuad
System supply	24 Vdc
System degree of protection	IP20
Proof-test interval	10 years
MTTF	5794.68 years
Lambda S	1.29E-08 per hour

PARAMETER	VALUE
Lambda DD	6.80E-09 per hour
Lambda DU	6.80E-13 per hour
PFD	8.42E-08
PFH	6.80E-13 per hour
Safe failure fraction	99.99%
Safety integrity level	SIL 3

TECHNICAL NOTE

Install H7506 only at the documented bus endpoint, preserve cable and grounding identity, then verify system-bus diagnostics and communication stability before returning the controller to service.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

HIMax baseplate bus termination

Terminates the system bus in an approved HIMA installation

HIQuad safety-controller communication

Supports defined bus-end electrical conditions for system communication

Bus-end replacement during cabinet service

Forms part of the certified HIMax and HIQuad accessory set

Safety-system communication fault isolation

Provides a replaceable bus-interface endpoint for maintenance

PRODUCT PRECAUTIONS

1. Verify H7506 and the designated bus-end position before disconnection.
2. Place the safety system and controlled process in the approved maintenance state.
3. Isolate the applicable system supply before opening bus connections.
4. Label incoming and outgoing bus cables and preserve their shield arrangement.
5. Use ESD controls and inspect terminal contacts for damage or contamination.
6. Do not move H7506 to an intermediate bus position without an approved topology change.
7. Restore power and review processor, system-bus and communication diagnostics.
8. Record the final bus state and controlled communication test before release.

ENGINEER FAQ

Q1 Does H7506 match HIMA system bus in a HIMax baseplate bus termination installation?

Verify the complete H7506 marking, the documented HIMA HIMax / HIQuad Safety Systems position and the installed HIMA system bus before fitting the assembly.

Q2 How should H7506 be wired when it must terminates the system bus in an approved hima installation?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for H7506; then continuity-test the affected path.

Q3 Which HIMA HIMax / HIQuad Safety Systems records should be captured before removing H7506?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with H7506 before disconnection.

Q4 What controlled test confirms that H7506 can supports defined bus-end electrical conditions for system communication?

Apply the approved field or simulated stimulus, observe the HIMA HIMax / HIQuad Safety Systems indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which approved HIMax or HIQuad baseplate condition should be checked when H7506 reports an abnormal state?

Check the approved HIMax or HIQuad baseplate supply, seating and connection first, then compare channel diagnostics with the recorded H7506 baseline.

Q6 Can H7506 be moved directly into HIQuad safety-controller communication without validating certified communication modules?

No. Confirm the certified communication modules, revision, connection scheme and HIMA HIMax / HIQuad Safety Systems configuration before transferring H7506 to that duty.

Q7 What maintenance evidence is required after H7506 is used for Bus-end replacement during cabinet service?

Retain the nameplate record, corrective action, final diagnostics and a controlled bus-end replacement during cabinet service functional-test result for H7506.

Q8 How should H7506 be returned to service in Safety-system communication fault isolation?

Restore power under control, verify forms part of the certified himax and hiquad accessory set, exercise the intended signal path and release H7506 only after the HIMA HIMax / HIQuad Safety Systems remains in its approved operating state.

SOURCE HIMA Safety-System Type Approval and Functional Safety Data | 60213 / 44367

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