

ABB DSQC354 3HNE00065-1

Installation & Commissioning Guide

ABB DSQC354 3HNE00065-1 is an encoder interface unit used for S4Cplus conveyor tracking. ABB specifies direct connections for the customer encoder and synchronization switch, with the interface also required by the documented Sensor Synch function.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides the DSQC 354 encoder-interface function for conveyor tracking.

Feature 2

Connects the customer encoder and synchronization-switch cables directly to the interface unit.

Feature 3

Supports the Conveyor Tracking function identified as RobotWare option 83-1.

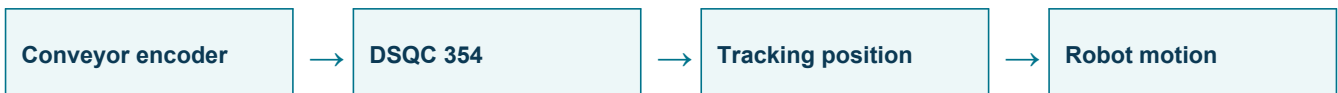
Feature 4

Is also required for the Sensor Synch function identified as RobotWare option 316-1.

VERIFIED DATA SNAPSHOT

Controller family	S4Cplus M2000 / BaseWare OS 4.0
Interface function	Encoder interface for conveyor tracking
Controller option	79-1
RobotWare function	Conveyor Tracking option 83-1

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.



Pre-installation readiness

READINESS GATE

Identity Compare the complete marking with the approved work order and installed record.	System match Confirm the receiving channel, mating components and controlled configuration.
Physical condition Inspect mounting surfaces, connectors, terminals, cable and support hardware.	Work controls Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Controller family S4Cplus M2000 / BaseWare OS 4.0	Interface function Encoder interface for conveyor tracking
Controller option 79-1	RobotWare function Conveyor Tracking option 83-1
Connected field devices Customer encoder and synchronization switch	Connection method Direct cable connection to the encoder unit
Included connector Screw connector	Related function Sensor Synch option 316-1
External gateway option 134-1	

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	ABB Product Specification S4Cplus M2000 / BaseWare OS 4.0, 3HAC 9039-1 Rev. 5, printed page 39
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

- 01 Confirm the complete DSQC354 3HNE00065-1 marking and the assigned conveyor-tracking position.
- 02 Record the customer encoder cable and synchronization-switch cable before disconnection.
- 03 Isolate controller and field power according to the approved robot-cell procedure.
- 04 Inspect the screw connector, cable shields, terminals and mechanical retention.
- 05 Restore encoder and synchronization-switch conductors to the documented terminals.
- 06 Verify the RobotWare Conveyor Tracking option and the controlled I/O configuration.
- 07 Check encoder count direction and synchronization-switch operation during commissioning.
- 08 Validate tracking alignment with the moving work object before automatic production.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state Observe status at power-up and check for unexpected fault or alarm indication.	Static value Verify the expected bias, gap, loop, contact or channel value for the application.
Dynamic response Apply the approved machine or test stimulus and confirm response and scaling.	Protection path Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Conveyor tracking Provide encoder position and synchronization-switch input for following a work object on a moving conveyor.	Sensor synchronization Provide the encoder interface required by the documented Sensor Synch function.
External gateway installation Mount the DSQC 354 as the specified external encoder-interface unit where the controller arrangement requires it.	Robot-cell recommissioning Restore the encoder and synchronization path after verified interface replacement or cabinet service.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What function does ABB DSQC354 3HNE00065-1 provide?	It is the encoder interface unit used for S4Cplus conveyor tracking.
Which field cables connect to ABB DSQC354 3HNE00065-1?	The customer encoder cable and the synchronization-switch cable connect directly to the encoder unit.

Release record and technical references

CLOSEOUT QUESTIONS

Which RobotWare option uses ABB DSQC354 3HNE00065-1 for conveyor tracking?	ABB identifies Conveyor Tracking as RobotWare option 83-1 in the S4Cplus specification.
Which related function also requires ABB DSQC354 3HNE00065-1?	The interface is also required for Sensor Synch, RobotWare option 316-1.
What connector is documented with ABB DSQC354 3HNE00065-1?	ABB states that a screw connector is included with the encoder-interface option.
Which external gateway option identifies ABB DSQC354 3HNE00065-1?	The external gateway list assigns option 134-1 to the DSQC 354 encoder interface.
What should be tested after installing ABB DSQC354 3HNE00065-1?	Check encoder count direction, synchronization-switch operation and the conveyor-tracking response.
When is ABB DSQC354 3HNE00065-1 ready for automatic operation?	Release it only after the configured tracking function follows the moving work object with the required alignment.

RELATED MODELS FOR INSTALLATION PLANNING

ABB DSQC 679 3HAC028357-001	Installation-planning reference. Review the complete ordering string before selection.
ABB 3HNA006565-001	Installation-planning reference. Compare the required interface and system position.
ABB 3HNE06225-1	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	ABB Product Specification S4Cplus M2000 / BaseWare OS 4.0, 3HAC 9039-1 Rev. 5, printed page 39
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE

Release the equipment only after the responsible site authority accepts the recorded result.

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