

ABB DSQC354 3HNE00065-1

Complete Product Information

ABB DSQC354 3HNE00065-1 supplies the encoder-interface path used by S4Cplus conveyor-tracking and Sensor Synch functions.

WHAT THIS PRODUCT DOES

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 characteristic 1

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

Product characteristic 2

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

Product characteristic 3

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

Product characteristic 4

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

PRODUCT-PAGE TECHNICAL 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

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

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

FEATURE INTERPRETATION

Product identity Provides the DSQC 354 encoder-interface function for conveyor tracking.	System role Connects the customer encoder and synchronization-switch cables directly to the interface unit.
Service context Supports the Conveyor Tracking function identified as RobotWare option 83-1.	Return-to-service focus Is also required for the Sensor Synch function identified as RobotWare option 316-1.

SIGNAL OR CONTROL PATH



The encoder interface has a defined role in its documented ABB control architecture. Match the installed hardware, connectors, configuration and service records before return to operation.

PRODUCT-PAGE TECHNICAL 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.
Which RobotWare option uses ABB DSQC354 3HNE00065-1 for conveyor tracking?	ABB identifies Conveyor Tracking as RobotWare option 83-1 in the S4Cplus specification.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

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.

APPLICATION VERIFICATION MAP

Conveyor tracking	Confirm the documented system position and the required operating function.
Sensor synchronization	Compare the restored connection or control path with the approved record.
External gateway installation	Check the physical interface and the retained configuration before startup.
Robot-cell recommissioning	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record Complete marking and assigned system position.	Connection record Connector, conductor and interface arrangement as found.
Configuration record Controlled settings, application data and option state.	Acceptance record Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION 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.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

- 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.

FREQUENTLY ASKED TECHNICAL 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.
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.

IMPORTANT NOTICE

Release the product only after identity, physical condition, configuration and functional response are accepted.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

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.

MANUFACTURER EVIDENCE RECORD

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.

RELATED MODELS ON APTERPOWER

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

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