

DSQC332

DSQC 332 digital relay I/O unit

It provides sixteen relay-input and sixteen relay-output channels for a configured ABB S4Cplus robot controller.

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB S4Cplus M2000 robot controller

PART

DSQC332

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PRODUCT OVERVIEW

It provides sixteen relay-input and sixteen relay-output channels for a configured ABB S4Cplus robot controller.

1

Provides sixteen digital input circuits

2

Provides sixteen digital relay output circuits

3

Groups field signals in banks of eight

4

Communicates at the documented 500 kbit/s rate

SYSTEM COMPONENTS

ABB S4Cplus M2000 controller

matching robot I/O bus and harness

internal or approved external field supply

configured robot system I/O map

TECHNICAL NOTE

Place the robot in a safe maintenance state, isolate field and controller supplies, label every eight-signal group, and verify the installed I/O map and relay action before enabling motion.

TECHNICAL DATA

PARAMETER	VALUE
ABB article number	3HAB 9669-1
Type	DSQC 332
Unit name	Digital Relay I/O
Controller option	63-1
Digital inputs	16

PARAMETER	VALUE
Digital outputs	16
Signal group size	8
Supply arrangement	Internal or external
Fieldbus data rate	500 kbit/s
Exchange part	6369901-403

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
XZC825A102-3BHE036346R0102	Related ABB product	View XZC825A102-3BHE036346R0102 page
XVC772A102-3BHE032285R0102	Related ABB product	View XVC772A102-3BHE032285R0102 page
GDC806C4002-3BHE044249R4002	Related ABB product	View GDC806C4002-3BHE044249R4002 page
GCC960C103-3BHE033067R0103	Related ABB product	View GCC960C103-3BHE033067R0103 page
TB521-ETH-1SAP112100R0170	Related ABB product	View TB521-ETH-1SAP112100R0170 page
DSSS170-48970001-A	Related ABB product	View DSSS170-48970001-A page
SB822-3BSE018172R1	Related ABB product	View SB822-3BSE018172R1 page
TB853-3BSE057022R1	Related ABB product	View TB853-3BSE057022R1 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Robot cell interlock I/O

Provides sixteen digital input circuits

Pneumatic valve and contactor commands

Provides sixteen digital relay output circuits

Fixture and guard status acquisition

Groups field signals in banks of eight

S4Cplus controller I/O restoration

Communicates at the documented 500 kbit/s rate

PRODUCT PRECAUTIONS

- 1 Verify the complete DSQC332 marking and its documented ABB S4Cplus M2000 robot controller position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing DSQC332.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at DSQC332.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved ABB S4Cplus M2000 robot controller hardware arrangement and configuration after replacement.
- 7 Energize DSQC332 in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

ENGINEER FAQ

Q1 Does DSQC332 match ABB S4Cplus M2000 controller in a Robot cell interlock I/O installation?

Verify the complete DSQC332 marking, the documented ABB S4Cplus M2000 robot controller position and the installed ABB S4Cplus M2000 controller before fitting the assembly.

Q3 Which ABB S4Cplus M2000 robot controller records should be captured before removing DSQC332?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with DSQC332 before disconnection.

Q5 Which matching robot I/O bus and harness condition should be checked when DSQC332 reports an abnormal state?

Check the matching robot I/O bus and harness supply, seating and connection first, then compare channel diagnostics with the recorded DSQC332 baseline.

Q7 What maintenance evidence is required after DSQC332 is used for Fixture and guard status acquisition?

Retain the nameplate record, corrective action, final diagnostics and a controlled fixture and guard status acquisition functional-test result for DSQC332.

Q2 How should DSQC332 be wired when it must provides sixteen digital input circuits?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for DSQC332; then continuity-test the affected path.

Q4 What controlled test confirms that DSQC332 can provides sixteen digital relay output circuits?

Apply the approved field or simulated stimulus, observe the ABB S4Cplus M2000 robot controller indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can DSQC332 be moved directly into Pneumatic valve and contactor commands without validating configured robot system I/O map?

No. Confirm the configured robot system I/O map, revision, connection scheme and ABB S4Cplus M2000 robot controller configuration before transferring DSQC332 to that duty.

Q8 How should DSQC332 be returned to service in S4Cplus controller I/O restoration?

Restore power under control, verify groups field signals in banks of eight, exercise the intended signal path and release DSQC332 only after the ABB S4Cplus M2000 robot controller remains in its approved operating state.

SOURCE ABB S4Cplus Product Specification and Robotics After Sales Catalog | 3HAC 10338-1; 3HAB 9669-1

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