

INDUSTRIAL AUTOMATION PRODUCT

# 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.

| IDENTITY      | VERIFIED VALUE                     |
|---------------|------------------------------------|
| Manufacturer  | ABB                                |
| System family | ABB S4Cplus M2000 robot controller |
| Part number   | DSQC332                            |
| Country       | Sweden                             |
| HS code       | 8537101190                         |

### APTER POWER SALES TEAM

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## Technical Specifications

Technical values below are limited to the named ABB product record.

| PARAMETER          | TECHNICAL VALUE      |
|--------------------|----------------------|
| ABB article number | 3HAB 9669-1          |
| Type               | DSQC 332             |
| Unit name          | Digital Relay I/O    |
| Controller option  | 63-1                 |
| Digital inputs     | 16                   |
| Digital outputs    | 16                   |
| Signal group size  | 8                    |
| Supply arrangement | Internal or external |
| Fieldbus data rate | 500 kbit/s           |
| Exchange part      | 6369901-403          |

### ENGINEERING DATA SUMMARY

| DATA GROUP                 | VERIFIED ASSIGNMENT                        |
|----------------------------|--------------------------------------------|
| Installed host / carrier   | ABB S4Cplus M2000 controller               |
| Companion hardware         | matching robot I/O bus and harness         |
| Field connection           | internal or approved external field supply |
| Primary system function    | Provides sixteen digital input circuits    |
| Controlled acceptance duty | Robot cell interlock I/O                   |

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# System Role and Architecture

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

**FUNCTION 1**  
Provides sixteen digital input circuits

**FUNCTION 2**  
Provides sixteen digital relay output circuits

**FUNCTION 3**  
Groups field signals in banks of eight

**FUNCTION 4**  
Communicates at the documented 500 kbit/s rate

## Matched 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

## SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                            |
|----------------------------|--------------------------------------------|
| Installed host / carrier   | ABB S4Cplus M2000 controller               |
| Companion hardware         | matching robot I/O bus and harness         |
| Field connection           | internal or approved external field supply |
| Primary system function    | Provides sixteen digital input circuits    |
| Controlled acceptance duty | Robot cell interlock I/O                   |

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## Applications and Engineering Context

**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

### 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.

### MODEL-SPECIFIC ACCEPTANCE EVIDENCE

| CHECK              | ACCEPTANCE CONDITION                    |
|--------------------|-----------------------------------------|
| Identity           | DSQC332 / DSQC332 recorded              |
| Physical interface | ABB S4Cplus M2000 controller            |
| Companion check    | matching robot I/O bus and harness      |
| Functional proof   | Provides sixteen digital input circuits |
| Application test   | Robot cell interlock I/O                |

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## Engineering 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.

### RELATED PRODUCTS ON APTER POWER

| MODEL                        | SYSTEM ROLE         | APTER POWER PAGE                                      |
|------------------------------|---------------------|-------------------------------------------------------|
| 3HAC043134-003               | Related ABB product | <a href="#">View 3HAC043134-003 page</a>              |
| SPTKM01                      | Related ABB product | <a href="#">View SPTKM01 page</a>                     |
| SPBRC410                     | Related ABB product | <a href="#">View SPBRC410 page</a>                    |
| SPDSI22                      | Related ABB product | <a href="#">View SPDSI22 page</a>                     |
| SPASI23                      | Related ABB product | <a href="#">View SPASI23 page</a>                     |
| IMASI23                      | Related ABB product | <a href="#">View IMASI23 page</a>                     |
| PM566-TP-ETH-1SAP12 1500R... | Related ABB product | <a href="#">View PM566-TP-ETH-1SAP121500R... page</a> |
| PM511V08-3BSE011180 R1       | Related ABB product | <a href="#">View PM511V08-3BSE011180R1 page</a>       |

### MANUFACTURER SOURCE RECORD

ABB S4Cplus Product Specification and Robotics After Sales Catalog

3HAC 10338-1; 3HAB 9669-1

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