

3BSE004725R1-DSTD196

DSTD 196 Connection Unit

ABB 3BSE004725R1-DSTD196 is an eight-channel DSTD 196 connection unit for S100 digital-input installations. It terminates 24 V DC field circuits and links the group to the associated DSDI input board.

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB S100 I/O

PART

3BSE004725R1

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PRODUCT OVERVIEW

ABB 3BSE004725R1-DSTD196 is an eight-channel DSTD 196 connection unit for S100 digital-input installations. It terminates 24 V DC field circuits and links the group to the associated DSDI input board.

1

Terminates eight 24 V DC digital input circuits for one S100 I/O connection group

2

Interfaces field contacts with a DSDI 110A or DSDI 110AV1 digital input board

3

Supports scanning, interrupt, pulse-extension and time-tagged input acquisition

4

Connects the termination group to the input board through the documented DSTK cable assembly

SYSTEM COMPONENTS

DSDI 110A or DSDI 110AV1 digital input board

DSTK 226L3 connection cable

24 V DC field-contact circuits

S100 I/O cabinet termination hardware

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
DSDI110A 57160001-AAA	S100 digital input board	Open product page
DSDI131 57160001-GV	S100 digital input board	Open product page
DSDI130 57160001-AA	S100 digital input board	Open product page
DSDI120AV1 3BSE018296R1	S100 digital input module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
ABB article number	3BSE004725R1
Type designation	DSTD 196
Product type	Module termination unit
Termination channels	8
Field circuit voltage	24 V DC
Open-input circuit voltage	48 V DC
Input-set organization	4 x 8 channels

PARAMETER	VALUE
Companion input board	DSDI 110A / DSDI 110AV1
Connection cable	DSTK 226L3
Input acquisition	Scanning or interrupt
Pulse processing	Pulse extension
Time-tag resolution	1 ms
I/O family	S100 I/O
Functional class	Connection unit

TECHNICAL NOTE

Connect the eight-channel termination group to the documented DSDI 110A or DSDI 110AV1 input board through the specified DSTK 226L3 cable. After replacement, verify channel identity, acquisition mode, pulse extension and 1 ms event ordering with controlled field transitions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

S100 digital-input field termination

Terminates eight 24 V DC digital input circuits for one S100 I/O connection group

Advant Controller 450 process-status acquisition

Interfaces field contacts with a DSDI 110A or DSDI 110AV1 digital input board

MasterPiece 200 discrete field monitoring

Supports scanning, interrupt, pulse-extension and time-tagged input acquisition

Legacy 800xA S100 I/O cabinet service

Connects the termination group to the input board through the documented DSTK cable assembly

PRODUCT PRECAUTIONS

- 1 Verify the full 3BSE004725R1-DSTD196 marking and the assigned eight-channel group before work.
- 2 Place the associated DSDI input set and field circuits in the approved maintenance state.
- 3 Isolate the field supply before disconnecting the 24 V DC termination conductors.
- 4 Record channel-to-terminal identity and the DSTK cable destination before removal.
- 5 Use ESD controls and protect the board connector and terminal hardware during handling.
- 6 Keep the documented 24 V DC connection-unit execution separate from other DSTD voltage variants.
- 7 Verify scan or interrupt acquisition, pulse extension and time-tag order after installation.
- 8 Prove all eight field states under controlled conditions before returning the input set to service.

ENGINEER FAQ

Q1 Which ABB input boards are paired with 3BSE004725R1-DSTD196?

The documented S100 input set uses DSDI 110A or DSDI 110AV1 with the DSTD 196 connection unit.

Q2 How many field circuits does 3BSE004725R1-DSTD196 terminate?

It provides one eight-channel connection group within the documented four-by-eight-channel S100 digital-input arrangement.

Q3 What field voltage is used with 3BSE004725R1-DSTD196?

The ABB product guide identifies DSTD 196 for 24 V DC field circuits, with 48 V DC across an open input in the documented arrangement.

Q4 Which cable connects 3BSE004725R1-DSTD196 to the input board?

The four-by-eight-channel set uses the DSTK 226L3 connection cable with the DSDI 110A or DSDI 110AV1 board.

Q5 Can 3BSE004725R1-DSTD196 inputs be acquired by interrupt?

Yes. The documented input set supports scanning or interrupt acquisition together with pulse extension.

Q6 What should be recorded before replacing 3BSE004725R1-DSTD196?

Record the eight terminal assignments, field-supply polarity, cable destination, DSDI board identity and the configured scan or interrupt behavior.

Q7 How is 3BSE004725R1-DSTD196 commissioned after installation?

Exercise each controlled field contact and confirm channel identity, input-state change, pulse extension and time-tag order in the associated control system.

Q8 Can 3BSE004725R1-DSTD196 be replaced by another DSTD 19x unit?

Only after matching the connection-unit voltage execution, channel arrangement, companion DSDI board, cable assembly and field-terminal design in the installed engineering documents.