

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB S100 I/O
Part number	3BSE004725R1
Country	Sweden
HS code	8537101190

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Technical Specifications

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

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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.

FUNCTION 1

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

FUNCTION 2

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

FUNCTION 3

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

FUNCTION 4

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

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	DSDI 110A or DSDI 110AV1 digital input board
Companion hardware	DSTK 226L3 connection cable
Field connection	24 V DC field-contact circuits
Primary system function	Terminates eight 24 V DC digital input circuits for one S100 I/O connection group
Controlled acceptance duty	S100 digital-input field termination

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3BSE004725R1-DSTD196 / 3BSE004725R1 recorded
Physical interface	DSDI 110A or DSDI 110AV1 digital input board
Companion check	DSTK 226L3 connection cable
Functional proof	Terminates eight 24 V DC digital input circuits for one S100 I/O connection group
Application test	S100 digital-input field termination

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

ABB Advant Controller 450 Product Guide

3BSE 015 953R201 Rev B

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