

SDCS-IOB-3 3BSE004086R1

Analog Encoder Board

ABB SDCS-IOB-3 3BSE004086R1 is an external analog I/O and pulse-encoder connection board. ABB documents five analog inputs, three analog outputs, an isolated pulse-encoder interface and a current source for temperature devices.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	SDCS-IOB-3 3BSE004086R1
Product role	Analog Encoder Board
System family	DCS Drive Control

MANUFACTURER SOURCE RECORDS

- 1. ABB DCS800 Hardware Manual 3ADW000194
- 2. ABB DCS500B/DCS600 Service Manual 3ADW000093

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SDCS-IOB-3 3BSE004086R1

Product Overview

System function

ABB SDCS-IOB-3 3BSE004086R1 is an external analog I/O and pulse-encoder connection board. ABB documents five analog inputs, three analog outputs, an isolated pulse-encoder interface and a current source for temperature devices.

Five analog inputs

Receives the documented analog field and reference signals.

Three analog outputs

Provides the documented analog output connection paths.

Isolated encoder interface

Connects the pulse encoder through a galvanically isolated interface.

Temperature-device excitation

Supplies the documented PTC or PT100 current selected by S5.

Technical note

Preserve the complete SDCS-IOB-3 3BSE004086R1 identity and every jumper setting. Record analog ranges, encoder supply, temperature-device mode, shielding, grounding and cable lengths before replacement.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	SDCS-IOB-3	Current input	0/4 to 20 mA through 500 ohm selection
ABB item	3BSE004086R1	Encoder supply	5 V, 12 V or 24 V by S4
Product type	Analog I/O and pulse-encoder connection board	Mounting	External conductive mounting supports bonded to ground
Analog inputs	5	Standard cable	1.7 m maximum
Analog outputs	3	Screened D6/D7 cable	4 m maximum
Encoder interface	Galvanically isolated pulse encoder	X1-X3 cable	0.5 m maximum
Temperature source	PTC 1.5 mA or PT100 5 mA by S5		

Engineering boundary

Preserve the complete SDCS-IOB-3 3BSE004086R1 identity and every jumper setting. Record analog ranges, encoder supply, temperature-device mode, shielding, grounding and cable lengths before replacement.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
DCS drive analog I/O	Connects analog signals to the documented DCS drive-control hardware.
Pulse-encoder feedback	Receives isolated pulse-encoder signals with the approved supply selection.
Temperature monitoring	Excites PTC or PT100 devices using the documented current-source mode.
External board replacement	Restores jumper, shielding, grounding and cable records for an exact board.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is ABB SDCS-IOB-3 3BSE004086R1?	It is an external analog I/O and pulse-encoder connection board for ABB DCS drive-control systems.
How many inputs does ABB SDCS-IOB-3 3BSE004086R1 provide?	ABB documents five analog inputs.

Related Products

MODEL	APTER POWER PAGE
ABB 07KP90 GJR5251000R0202	View ABB 07KP90 GJR5251000R0202
ABB 07EB62R1 GJV3074342R1	View ABB 07EB62R1 GJV3074342R1
ABB 07KP60R101 GJV3074360R101	View ABB 07KP60R101 GJV3074360R101

FAQ, Related Products and Sources

QUESTION	ANSWER
How many outputs does ABB SDCS-IOB-3 3BSE004086R1 provide?	ABB documents three analog outputs.
Which encoder supplies can ABB SDCS-IOB-3 3BSE004086R1 use?	S4 selects the documented 5 V, 12 V or 24 V encoder supply.
Which temperature modes can ABB SDCS-IOB-3 3BSE004086R1 use?	S5 selects 1.5 mA for PTC or 5 mA for PT100 service.
How does ABB SDCS-IOB-3 3BSE004086R1 accept 0/4-20 mA?	ABB documents current-input selection through a 500 ohm path.
What cable limits apply to ABB SDCS-IOB-3 3BSE004086R1?	ABB specifies 1.7 m standard, 4 m for screened D6/D7 and 0.5 m for X1-X3 in the documented arrangement.
What confirms ABB SDCS-IOB-3 3BSE004086R1 commissioning?	Analog channels, encoder feedback, temperature input, jumpers, grounding and shielding must all pass controlled checks.

MODEL	APTER POWER PAGE
ABB 07NG61R1 GJV3074311R1	View ABB 07NG61R1 GJV3074311R1
ABB 07PS62R2 GJV3074332R2	View ABB 07PS62R2 GJV3074332R2
ABB 07SK90R1 GJR5250200R0001	View ABB 07SK90R1 GJR5250200R0001

MANUFACTURER SOURCE RECORDS

1. ABB DCS800 Hardware Manual 3ADW000194
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