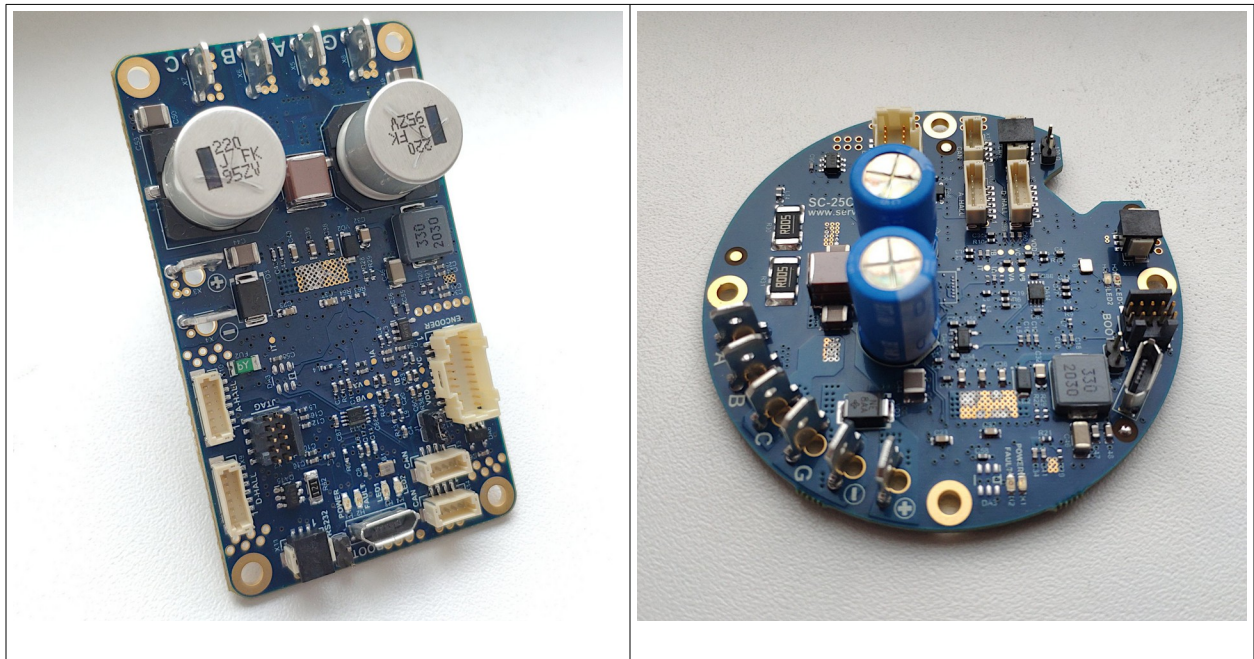


Connecting LENZ Encoders' ACTIS-series Encoders with BISS-C interface to Servosila SC-series Servo Drives

Technical Note

Revision A



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Overview

This technical note is written in regards to LENZ Encoders' ACTIS-series inductive absolute rotary 21-bit encoder with a BISS-C interface.

RELEVANT PART NUMBERS:

ACTIS SAB150

The rotary encoder's output rate has been found sufficient to be used for servo control, direct drive control, torque control and field-oriented control (brushless motor commutation) purposes. The encoder was successfully tested in those test scenarios.

BISS-C interface: settings

The following configuration settings of the SSI/BISS-C interface of Servosila SC-series Servo Drives have been found to work well with the given model of the inductive absolute encoder.

Motor Encoder (Direct Drive)	2	-
Servo Encoder (Load Side)	2	-
▼ Peripheral: SSI/BISS-C Encoder		
counts per revolution	2097152	counts
encoder bias vs. electrical position	0	counts
inverted installation	0	0 or 1
request frequency: divider	3	-
clock frequency: divider	14	-
clock polarity	1	0 or 1
clock phase	1	0 or 1
total number of bits in packet	40	1-64
POSITION field (count): start bit	8	-
POSITION field (count): length	21	-
POSITION field (count): bit inversion	0	0 or 1
MULTI-TURN field (count): enable	0	0 or 1
MULTI-TURN field (count): start bit	39	-
MULTI-TURN field (count): length	6	-
MULTI-TURN field (count): bit inversion	0	0 or 1
MULTI-TURN Count Limit (count)	256	turns
ERROR bit: enable	1	0 or 1
ERROR bit: bit position	32	-
ERROR bit: bit inversion	1	0 or 1
WARN bit: enable	1	0 or 1
WARN bit: bit position	33	-
WARN bit: bit inversion	1	0 or 1
CRC field: enable	0	0 or 1
CRC field: start bit	34	-
CRC field: length	6	-
CRC field: bit inversion	1	0 or 1



*Servo Actuators designed around Servosila SC-series
Servo Drives*

YouTube: <http://www.youtube.com/user/servosila>

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