GETRIEBEBAU NORD
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NORD DRIVESYSTEMS

V/F CONVERTER

Part number: 278 910 310

Adapter module

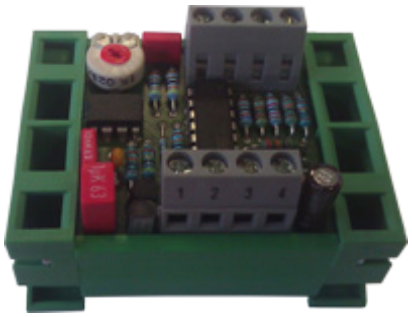
NOTICE

Validity of this document

This document is only valid in combination with the operating instructions of the relevant drive unit and under strict compliance with the safety and warning instructions which they contain. All of the information that is relevant for a safe start-up of this module and the drive unit is only available under these conditions.

Scope of delivery

1 x	Module	V/F CONVERTER



Field of use

The module is used to convert analog signals from a potentiometer (0 – 10 V) into pulse signals. These pulse signals can be evaluated by SK 500E … SK 535E series frequency inverters and can be assigned to various functions. In this way, the frequency inverter can process an additional, i.e. a total of 3 analog signals.

Technical data

Module

Ambient temperature	-25°C … +75 °C
Protection class	IP00

Weight	50 g
Dimensions [mm]	L x W x H: 60 x 45 x 40

Electrical data

Electrical connection	Screw terminals
Supply voltage	10 … 30 V DC
Analog signal (input)	0 - 10 V
Pulse signal frequency range	2 kHz … 22 kHz (corresponding to 0 … 10 V)

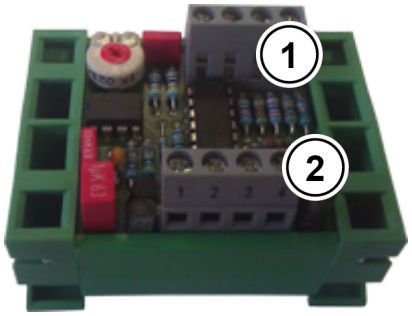
Cross-section Connection terminals	20-16 AWG (0.5 – 1.5 mm^2)
Power consumption	10 mA (own consumption)
Pulse signal voltage	15 V

Installation

Installation location	Inside of a control cabinet, in the immediate vicinity of the relevant frequency inverter
Fastening	Standard TS 35 mounting rail (snap-on rail according to EN 50022)

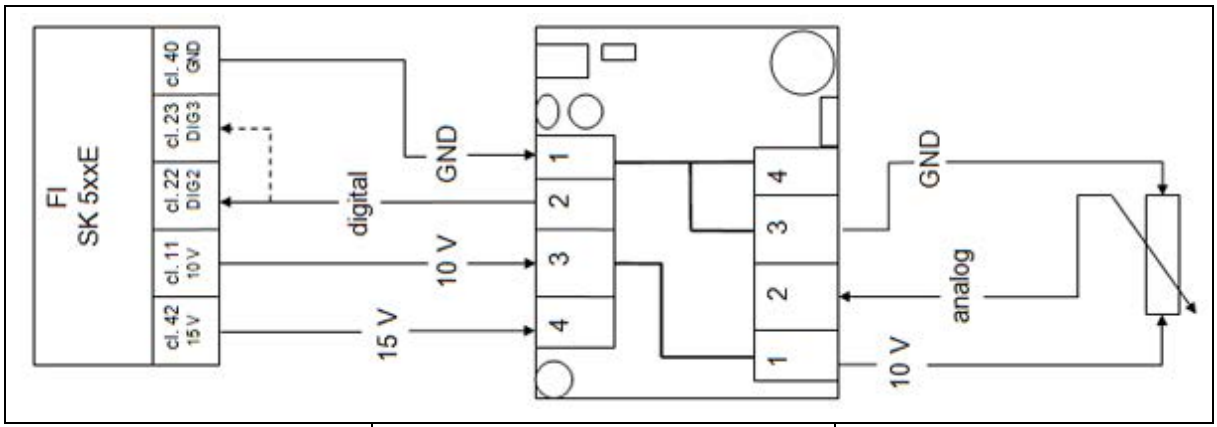
Connections

Connect the signal cable according to the adjacent illustration.



1	Potentiometer Terminal 1: 10 V- reference voltage OUT Terminal 2: Analog signal 0 – 10V Terminal 3: GND Terminal 4: GND
2	Frequency inverters Terminal 1: GND Terminal 2: Pulse output Terminal 3: 10 V- reference voltage IN Terminal 4: Module power supply

Electrical connection (example)



Frequency inverter	V/F converter connection module	Potentiometer 0 – 10 V

Parameters

The frequency inverter must be parameterised in order to assign a function to the setpoint (pulse signal). The appropriate parameter must be changed according to the digital input which is used (digital input 2 or 3):

Parameter	Meaning	Remarks
P421	Digital input 2	Permissible functions: Pulse functions *
P422	Digital input 3	

* For details, refer to the frequency inverter manual.

Value	Description *
26	Torque current limit
28	Frequency addition
29	Frequency subtraction
33	Current limit
34	Maximum frequency
37	Servo mode torque
38	Torque precontrol
39	Multiplication
41	Process controller setpoint
42	Process controller lead

Additional documentation and software (www.nord.com)

Document	Designation
BU 0500	SK 500E - SK 535E frequency inverter manual

Software	Meaning
NORD CON	Parameterisation and diagnostic software