

Technical Information / Datasheet

Level adapter PCB HTL – HTL A+/- B+/-

Part number: 18 552 095

Level adapter HTL – HTL A+/- B+/-

NOTICE

Validity of the documents

This document is only valid in combination with the operating instructions for the relevant drive unit. 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	PCB, lacquered
Accessories required		
1 x	Mounting kit	OBW MOUNTING KIT PCB 185520xxx (Part No. 18552160)



Usage area

The module, which is intended for installation in the motor terminal box, is used to convert HTL or TTL signals into complementary HTL signals. With this form of signal, the probability of errors in data transmission is considerably reduced. Use of this module is recommended for cable lengths in excess of 30 m.

Technical data

Module

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

Weight	20 g
Dimensions [mm]	L x W x H: 46 x 35 x 22

Electrical data

Electrical connection	Spring terminals
Input voltage	10 ... 30 V DC
Input level "0"	≤ 0.8 V
Input level "1"	≥ 2.4 V
Max. output voltage	= Input voltage
Typical output	current: 100 mA dynamic: 200 mA

Cross-section	20-16 AWG
Connection terminals	(0.5 – 1.5 mm ²)
Power consumption	10 mA (own consumption)
Max. frequency	100 kHz
Max. cable length	500 m at 20 kHz


Level adapter PCB				HTL - HTL A+/- B+/-	
V1.0	Erstausgabe / first issue	4813	Rck	TI 18552095	GB
version	reason for change(s)	issue	name	document	speech

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Signal delay	
Rising flank	250 ns
Falling flank	750 ns
Protection	
power supply	Reverse polarity protected
Outputs	Short-circuit protected
Overtemperature	Switch-off at 150°C

Tests	
EN61000-4-2 ESD	4 kV contact discharge 8 kV air discharge
EN61000-4-4 Burst	1 kV signal cables 2 kV power supply
EN61000-4-5 Surge	1 kV signal cables 2 kV power supply



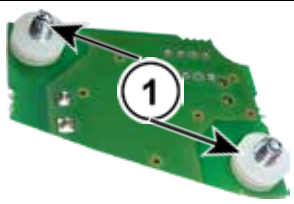

Installation

Installation location	In motor terminal box						
Mounting	<p>Double screw fastening with installation kit (Part No.: 18552160)</p> <p>Installation kit consisting of:</p> <table border="1" style="margin-left: 40px;"> <tr> <td>2 x</td> <td>M4 screws</td> </tr> <tr> <td>2 x</td> <td>Toothed washers</td> </tr> <tr> <td>6 x</td> <td>Plastic washers</td> </tr> </table> <div style="text-align: right;">  <p>Illustration of installation kit</p> </div>	2 x	M4 screws	2 x	Toothed washers	6 x	Plastic washers
2 x	M4 screws						
2 x	Toothed washers						
6 x	Plastic washers						
Tools	Slot-head screwdriver 0.6 x 3.5						

 Information

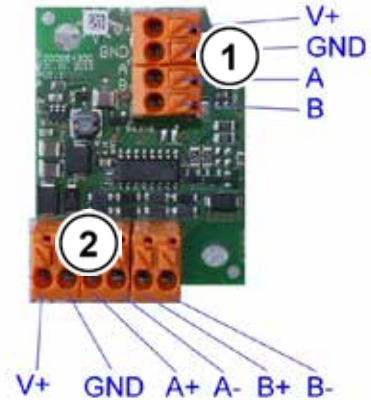
Motor terminal box

The PCB is installed in an adequately dimensioned motor terminal box. Installation in a one-piece terminal box (EKK) is not possible.

1.	Insert the M4 screws (1) with toothed washers (2) from above into the holes provided (3).		
2.	Put 3 plastic washers (1) onto each screw from the underside.		
3.	Screw the PCB into the terminal box.		

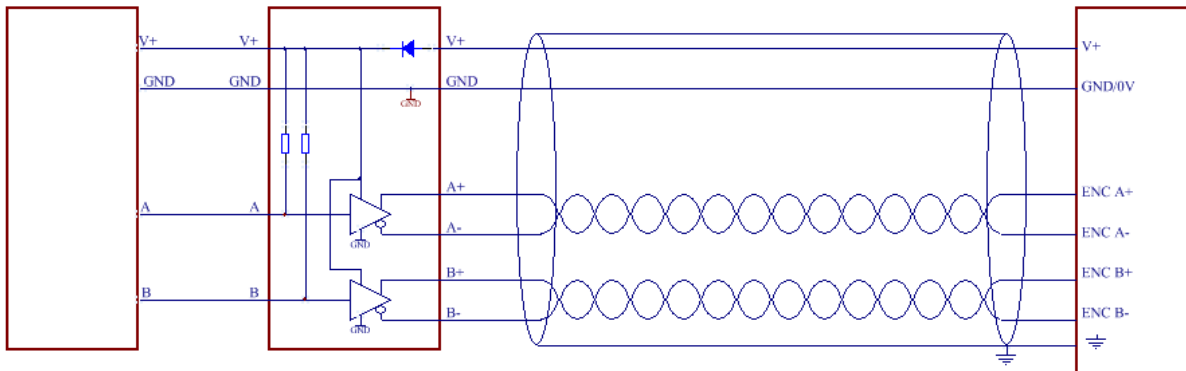
Connections

Connect the signal cable according to the adjacent illustration.



- | | |
|---|---------------------|
| 1 | Incremental encoder |
| 2 | Frequency inverters |

Electrical connection (example)



Incremental encoder

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Evaluation device (e.g. frequency inverter)

Additional documentation and software (www.nord.com)