APTER POWER PRODUCT GUIDE

NTAC-02

Pulse Encoder Interface Module

ABB NTAC-02 is a pulse encoder interface module for ACS 600 drive systems. It receives incremental encoder channels and returns speed or position feedback to the drive over an optical DDCS connection.

Manufacturer	ABB
Model	NTAC-02
Product type	Pulse Encoder Interface Module
Product family	ABB ACS 600 Drive Options
Country	Sweden
HS code	8537101190
Shipping origin	Xiamen, Fujian, China

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

SCAN FOR PRODUCT & QUOTE

1. Product overview and identity

- Conditions A and B quadrature encoder signals
- Accepts a once-per-revolution index channel
- Transfers feedback over the optical drive link
- Provides a selectable DDCS node identity

Model configuration

Complete model	NTAC-02
Product type	Pulse Encoder Interface Module
System family	ABB ACS 600 Drive Options

2. Technical specifications

Degree of protection	IP20
Mounting	DIN 50022 rail
Node-number switches	7 DIP switches
Default node number	16
Maximum encoder frequency	100 kHz
Logic 1 threshold at 15 V supply	>7.6 V
Logic 0 threshold at 15 V supply	<5 V
Logic 1 threshold at 24 V supply	>12.2 V
Logic 0 threshold at 24 V supply	<8 V
Speed-feedback resolution	0.00305% (15 bit)
Encoder phase displacement	Channel B 90 electrical degrees from Channel A
Index channel	One Channel Z pulse per revolution
Supply current	250 mA maximum at 24 VDC
Conductor cross-section	0.5-2.5 mm2
Fast-transient immunity	4 kV, 5/50 ns
Emissions	EN 55022 Class B

3. Functions, applications and components

Closed-loop motor speed control

Conditions A and B quadrature encoder signals

Drive positioning feedback

Accepts a once-per-revolution index channel

Hoist and crane encoder systems

Transfers feedback over the optical drive link

High-dynamic machinery drives

Provides a selectable DDCS node identity

Associated system components

- incremental pulse encoder
- ACS 600 NAMC control board
- DDCS optical fibers
- 24 VDC control supply

4. Engineering FAQ and source record

What encoder frequency can NTAC-02 accept?

The ABB guide specifies a maximum signal frequency of 100 kHz.

How is the NTAC-02 node number selected?

Use the seven DIP switches; the documented default node is 16.

What phase relationship is required for NTAC-02?

Encoder Channel B must be electrically 90 degrees from Channel A.

How is the NTAC-02 index input used?

Channel Z accepts one pulse per revolution for positioning functions.

Official source

ABB NTAC-0x/NDIO-0x/NAIO-0x Installation and Start-up Guide
https://library.e.abb.com/public/857f86693ef6f9dfc1256d2800402f36/en_ntac_ndio_naio_um_4a.pdf

ASK FOR QUOTE

Contact sales13@apterpower.com or +86 180 3023 5313.