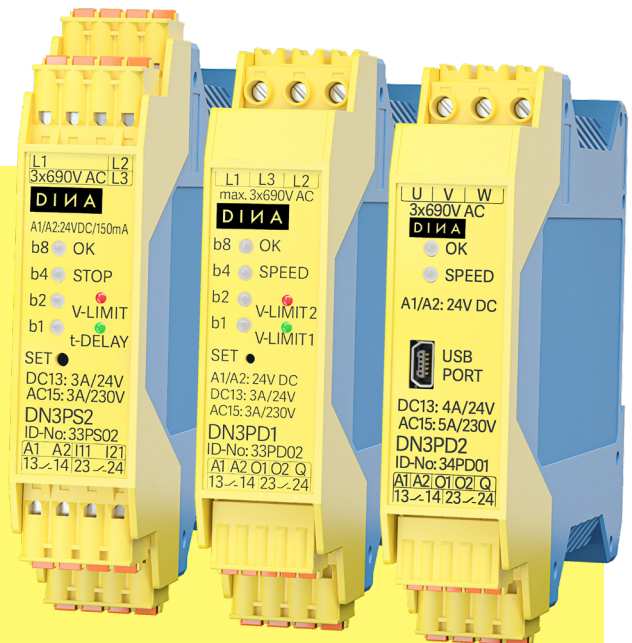


SAFEONE DN3P

Sensorless,
carefree,
safe

Safe drive monitoring
easier than ever.



SAFEONE DN3P

Brief description

Our DN3P products are suitable for the safe monitoring of speed, standstill, position & direction of rotation as well as the monitoring of a speed range - all of that without the need of a measuring system / encoder.

Compared to conventional drive monitoring solutions, neither proximity switches nor incremental encoders are required to measure the operating status. Our innovative solutions are thus a good choice for retrofits as well as for designing state-of-the-art machines up to Performance Level e.

The simple installation and the user-friendly parameterization make safety child's play. You just need to quickly configure the most essential parameters, everything else has already been taken care of.

Your advantages at a glance

SIMPLE SAVING

For you, no measuring system means:
fewer components, lower costs as well as faster documentation
and validation.

MAKE YOURSELF INDEPENDENT

Can be combined with all kinds of systems and controls and used
with all three- and single-phase motors up to performance level e.

FITS IN EACH AND EVERY CONTROL CABINET

With a construction width of only 22.5 mm.

INDIVIDUELL FÜR SIE ANGEPASST

Each SAFEONE can be precisely adapted to your application:

- DN3PD1/DN3PD2 - Adjustable speed limits from
0 to 600 resp. 1200 Hz
- DN3PS2 - adjustable switching threshold 50-500mV
- DN3PS2 / DN3PD2 - various adjustable delay times

SIMPLEST CONFIGURATION

Depending on the model, via USB interface on the PC or directly
using the SET button.

PLUG & PLAY

Easy to install without prior knowledge.

Also the integration into the circuit diagram is pretty simple.

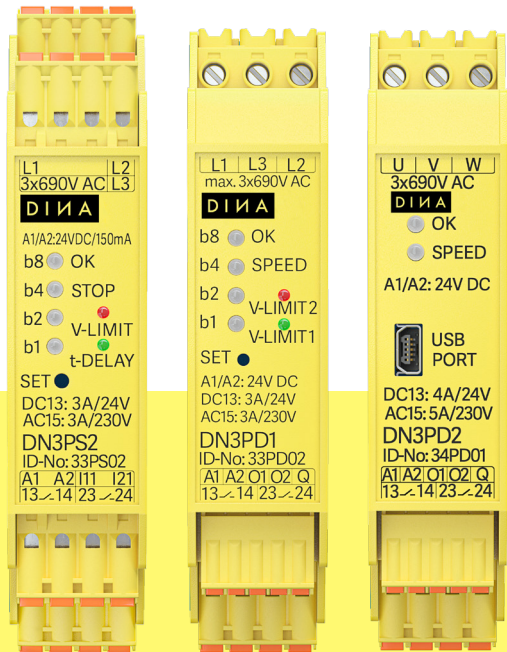
Application areas

COMPATIBILITIES

- Three-phase-motors with frequency converter
- Single-phase AC motors
- Motors with star-delta connection
- Servomotors

INDUSTRIES

- Wood processing
- Metal processing
- Construction machinery
- Spindles
- Centrifuges
- and many more...



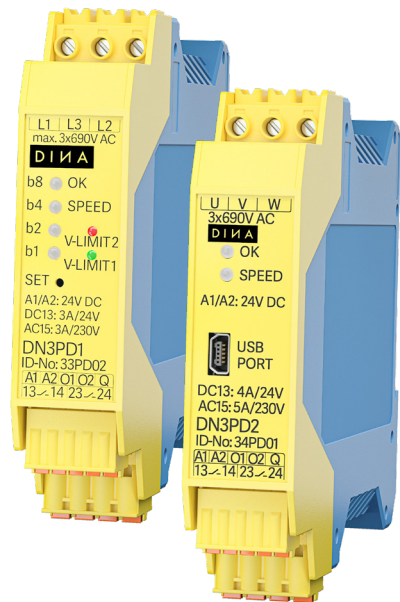
Motion monitoring in detail

The motion monitoring modules SAFEONE DN3PD1/DN3PD2 supervise either a safe speed range, a safe limited speed or a safe maximum speed.

The frequency supplied from the drive is safely monitored.

Configuration and diagnosis at the SAFEONE DN3PD1 are done with just one button and the two-coloured LED display directly on the front. Commissioning and troubleshooting can be carried out quickly and without additional tools.

Our latest development SAFEONE DN3PD2, on the other hand, can conveniently be configured using the innovative GO: BEYOND software and USB interface.

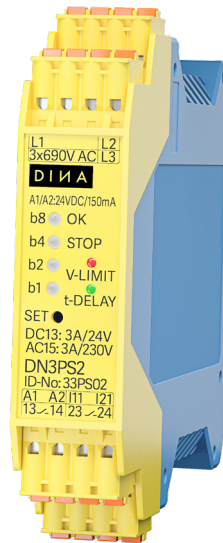


Standstill monitoring in detail

The standstill monitoring module DN3PS2 does not require any additional measuring system, which makes it unique in this form.

1- or 3-phase motors can be monitored safely up to 690V AC with Performance Level e.

The module detects the electromagnetic force (EMF) of the motor while running out. A limit and an additional time delay can be parameterized.



Technical data at a glance

	DN3PD1	DN3PD2	DN3PS2
Construction width	22,5 mm	22,5 mm	22,5 mm
Switching power	up to 3 A	up to 5 A	up to 3 A
In- / Outputs	2 Relay outputs + 2 diagnostic outputs	2 Relay outputs + 2 diagnostic outputs	2 Relay outputs + 2 diagnostic outputs
Terminals	Spring-loaded terminals, screw terminals	Spring-loaded terminals, screw terminals	Spring-loaded terminals
Certifications	PLe (EN ISO 13849-1) SIL3 (IEC 61508) SIL CL3 (IEC 62061) UL-certified	PLe (EN ISO 13849-1) SIL3 (IEC 61508) SIL CL3 (IEC 62061) UL-certified	PLe (EN ISO 13849-1) SIL3 (IEC 61508) SIL CL3 (IEC 62061) UL-certified

Project set up

Hardware parameterization	x		x
Software parameterization		x	

Motion Monitoring

	sensorless	sensorless	sensorless
--	------------	------------	------------

Diagnosis and Visualization

Hardware Diagnosis / LED	x	x	x
--------------------------	---	---	---

Safety features

Safe Operating Stop	x	x	x
Safe Torque OFF	x	x	x
Safe Speed Range	x	x	
Safe Speed Monitor		x	
Safe Limited Speed	x	x	
Safe Minimal Speed	x	x	

Operating mode switchover

Muting function (bypass)			x
--------------------------	--	--	---

We look forward to hearing from you!

The logo for DINA, consisting of the letters 'DINA' in white, bold, sans-serif font, centered within a solid blue rectangular background.

DINA Elektronik GmbH
Esslinger Str. 84
D-72649 Wolfschlugen
Telefon: + 49 7022 95 17-0

E-Mail: sales@dina.de
www.dina.de

