NORDIC drive A4.0

NEW

Control system for high performance doors with optimal safety

Materials handling

Car industry

Production cells

Control box

New smaller control box IP 65 – more shallow for easier access.

24V battery backup in the control box available as option.

Optional Profisafe communicates signals up to PLe.

PLC with Safety module cat 4, PLe. Monitors safety edge function. Stops the door if any error occurs during closing.

A4.0 Improvements

- Control designed to accomplish cat 2 PLc and optionally cat 2 PLd (with safety photocell curtain), SLS function (safely limited speed).
- Emergency stop input (STO, cat 3, PLd, optionally cat 4 PLe) for OSSD devices.
- Including PLC with safety module cat 4 PLe.
- General purpose safety input with up to cat 4, PLe rating.
- Inverter EMC designed with integrated filter for residential, commercial and industrial areas.
- Absolute encoder type multiturn (no battery needed), integrated in the gear box.
- No referencing needed after power cut.
- Monitored brake function.
- Clear text error messages displayed on a graphic 4.3” full colour touch display.
- Energy-optimized vector inverter drive.
- Outstanding performance.

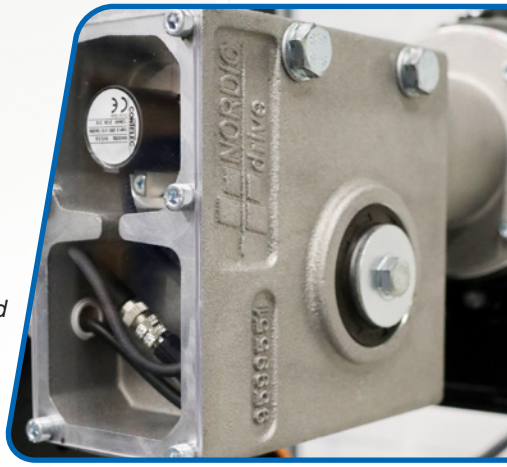
Extremely user friendly

- Instructive guide at installation, service and fault finding via display.
- Extremely simple startup of the door from the display.
- No reset needed after power cut.
- Program updating made simple using USB or SD.
- Vast number of functions like traffic light control, interlink control, dual opening heights, loading bay functions, time weekday control of opening devices, etc, to be programmed using the display.
- Optional UPS control unit with full control of battery level, located in the control box.

Fault log and simple fault finding by instructive pictures on the display.

Door drive

Fast and reliable.



Advanced absolute encoder with memory, integrated in the gear box.

Additional photocell curtain mounted on the frame available as option. Preventing the operator from standing to close when the door opens.

Safety photocell curtain cat 2, PLd integrated in the frames. Connected to safe input on the safety module. Continuously monitored by the safety module. Makes the door stop when somebody enters the door opening. Important improvement to standard photocell protections with no safety spec.

The photocell curtain improves safety substantially as it makes the door stop completely touchless before the bottom beam reaches the person. Acts over the entire door opening.

Vector inverter with STO function Sil 2, PLd. With Safe Limit Speed. Hard wired emergency stop cat. 0, or via Profisafe.

A4.0 Advanced technology

- Fieldbus connectivity for Profinet, Profisafe, Powerlink (safety) by external Ethernet connection (Modbus is integrated). Connectivity for other systems. (EtherCAT, etc) available on request.
- Prepared for future IoT applications.
- Single cable connection for Profinet/ Profisafe applications.
- Optional battery backup of 24V DC supply.
- Optional UPS backup of 1x230V supply.
- Control box built up of well-tried reliable industrial electric components with finger protection IP 2X.
- New platform and more compact enclosure for improved access to terminals
- Plastic cover over the high voltage terminals.
- Control box designed to be serviced from floor level without working from ladders (a law in several countries).

Innovative solutions for safer working environment

Technical specifications

- Power supply input range 208-240V, single-phase, 10A (control box size 300x500x210 mm).
- Power supply input range 360-480V, three-phase 10A (Optional, control box size 400x600x200 mm).
- Hold brake output 180-207 VDC.
- Temperature range 0°C to +40°C.
- Control box protection class IP 65, Motor IP 55.
- 24V (PELV) with up to 2000mA for external loads.
- Motor cables 5m as standard, other lengths optional.
- Program updating simplified by USB or SD.
- Choice of display languages.

NORDIC door ab

P.O. Box 4056 • SE-300 04 Halmstad • Sweden
Tel: +46 (0)35 10 00 30 • E-mail: info@nordicdoor.se

www.nordicindustrialdoor.com

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Swedish roll doors since 1991

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