



Nice opens up your business

Powerful and safe automation systems, easy to install and program.





The strength of the Nice solutions

Reliable and versatile control units for industrial and commercial doors. Numerous functions at your fingertips.



D-Pro Action

Extreme ease of installation and use.



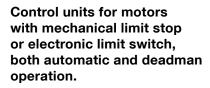
D-Pro Automatic

The most advanced and versatile on the market.

D-Pro Action

Easy to program and to use





Suitable for all types of motor, single phase without integrated inverter and three-phase, with 2.2 kW maximum power.

Easy programming and 2 LEDs for diagnostics.

High performance, with possibility of adding a dedicated module for optional potential free outputs. Compatible with all types of sensitive edges, including wireless.

User-friendly: thanks to the O-View programmer with multifunction display for connection through the IBT4N interface (both optional).

Safe: protected by a plastic shell, to avoid any risk of electrical shock.

Radio receiver: dedicated slot to connect a Nice SMXI or OXI plug-in receiver.

Smart, the maintenance service warning can be programmed according to the number of manoeuvres required.



ACCESSORIES FOR D-PRO ACTION CONTROL UNITS







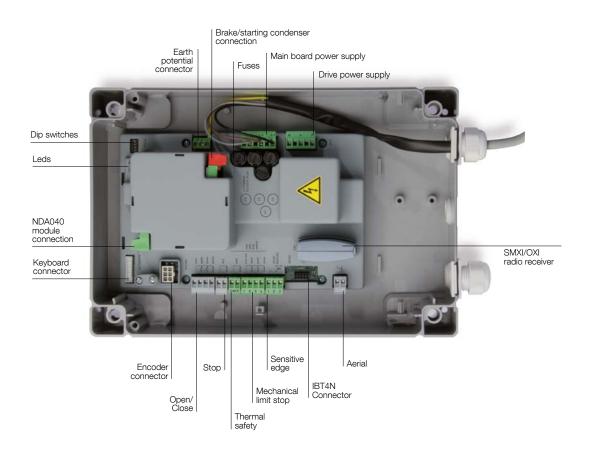
IBT4NInterface module for O-View programmer connection.



OVIEWControl unit programming and monitoring device.



IT4WIFI
Smart Wi-Fi interface
to control via smartphone
Nice automations compatible
with the BusT4 (Opera)
protocol.



D-PRO ACTION CONTROL UNITS

| Code | Description | Pcs./Pack |
|----------|---|-----------|
| NDCC2000 | Control unit for one motor, 400 Vac three-phase, 2.2 Kw | 1 |
| NDCC2100 | Control unit for one motor, 400 Vac three-phase with integrated brake rectifier, 2.2 kw | 1 |
| NDCC2200 | Control unit for one motor, 230 Vac single-phase, with integrated condenser control, 2.2 kw | 1 |

ADDITIONAL MODULES

| Code | Description | Pcs./Pack |
|---------|--|-----------|
| NDA040 | Additional module providing the control unit with two potential free programmable outputs | 1 |
| IBT4N | Additional interface enabling the control unit to communicate with 0-View through the nice BusT4 technology | 1 |
| OVIEW | Unit for control, programming and diagnostics of the control unit | 1 |
| IT4WIFI | Smart Wi-Fi interface to control via smartphone Nice automations compatible with the BusT4 (Opera) protocol. | 1 |

TECHNICAL SPECIFICATIONS

| Code | NDCC2000/NDCC2100 | NDCC2200 | | | |
|-----------------------------|--|--|--|--|--|
| Power supply (Vac 50/60 Hz) | 400 | 230 | | | |
| Max motor power (kW) | | 2.2 | | | |
| Power in standby (W) | | < 5 | | | |
| Pre limit input | proç | grammable | | | |
| External inputs | Up, Down and Photo (programmable) | | | | |
| Stop input | For sensitive edges of a normally closed and normally open type, opticals, $8.2~{\rm K}\Omega$ resistive and $8.2~{\rm K}\Omega$ pneumatic | | | | |
| Extra output | 2 free programmable and potential fi | ree contacts (by means of NDA040 module) | | | |
| Services Output | 24 Vo | c max 0.1 A | | | |
| Operating temperature (°C) | -2 | -20 ÷ +50 | | | |
| Protection class (IP) | | 55 | | | |
| Dimensions (mm) | 210> | 210x125x310 h | | | |
| Weight (kg) 2.5 | | | | | |

D-Pro Automatic

The most advanced and versatile



Control units for motors with mechanical limit stop or electronic limit switch, both automatic and deadman operation. In compliance with all European norms and certified by TÜV NORD CERT GmbH.

Suitable for almost all industrial motors on the market, single phase with or without integrated inverter and three-phase, with 2.2 kW maximum power.

Easy programming and immediate diagnostics thanks to the 4-digit display integrated in the cover.

High performance, with possibility of adding dedicated modules for additional functions such as traffic lights and loop detectors and to connect external transmitters. Compatible with all types of sensitive edges, including wireless.

The ideal solution for interlocking doors: thanks to the dedicated function, the control unit can be used to operate a number of doors in succession, to restrict or control entry to and from areas that need to be secured against two or more doors being open simultaneously.

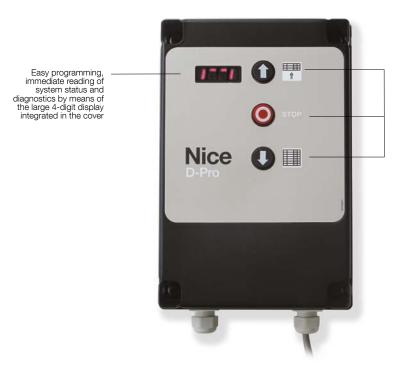
Safe: protected by a plastic shell, to avoid any risk of electrical shock.

Radio receiver: dedicated slot to connect a Nice SMXI or OXI plug-in receiver.

Smart, the maintenance service warning can be programmed according to the number of manoeuvres required..

Customizable: further button configurations are available on request, such as emergency stop switch.

The TÜV NORD CERT GmbH certification and compliance with EN 12453:2014 mean safety in all situations.



Practical door operation with Up - Stop - Down buttons on the box cover

ADDITIONAL MODULES FOR D-PRO AUTOMATIC CONTROL UNITS



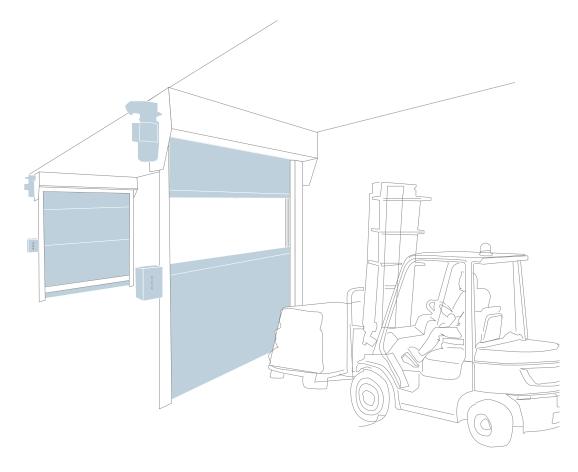
NDA030 For a two-way traffic light and extra programmable inputs/outputs



NDA070For vehicle detection by induction coils

THE ADVANTAGES OF THE NICE AUTOMATION SYSTEM

The integrated interlocking function allows two or more doors to be operated in succession: the ideal solution for cold storage facilities



D-PRO AUTOMATIC CONTROL UNITS

| Code | Description | Pcs./Pack |
|----------|--|-----------|
| NDCC1000 | Control unit for one motor, 400 Vac, three-phase, 2.2 Kw | 1 |
| NDCC1100 | Control unit for one motor, 230 Vac with integrated inverter, 2.2 Kw | 1 |
| NDCC1200 | Control unit for one motor, 230 Vac single-phase, 2.2 kW | 1 |

ADDITIONAL MODULES

| Code | Description | Pcs./Pack | |
|--------|---|-----------|--|
| NDA030 | Additional I/O expander for D-Pro Automatic control unit with two-way traffic lights function, six more general purpose inputs and four potential free outputs | 1 | |
| NDA070 | Additional 1 or 2 channels module for induction coils connection (12-24 Vdc) with numerous programmable functions | 1 | |

TECHNICAL SPECIFICATIONS

| Code | NDCC1000 | NDCC1100/NDCC1200 | | | | |
|-----------------------------|--------------------------|--|--|--|--|--|
| Power supply (Vac 50/60 Hz) | 400 | 230 | | | | |
| Max motor power (kw) | 2.2 |) | | | | |
| Power in standby (W) | < 4 | 1 | | | | |
| Pre limit input | program | mable | | | | |
| External inputs | Up, Down, Stop, Step-by- | Up, Down, Stop, Step-by-step, all programmable | | | | |
| Outputs | 3 free programm | 3 free programmable outputs | | | | |
| Stop input | | For sensitive edges of a normally closed and normally open type, opticals, 8.2 $K\Omega$ resistive and 8.2 $K\Omega$ pneumatic | | | | |
| Services Output | 24 Vdc 6 | 00 mA | | | | |
| Operating temperature (°C) | -20 ÷ | +50 | | | | |
| Protection class (IP) | 55 | | | | | |
| Dimensions (mm) | 210x125x310 h | | | | | |
| Weight (kg) | 3.5 | | | | | |

Additional tools for more functions



D-Pro Monitoring and interface modules

For industrial doors control and management







NDA004

Programming and installation module.

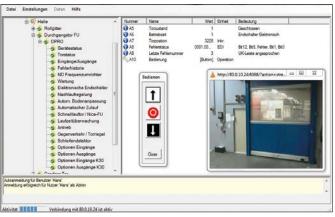
NDA006

Communication module.

NDA008

Repeater module with integrated router.

NICE INDUSTRIAL CONFIGURATION TOOL



Software for system configuration by PC.

Modules for the continuous remote monitoring, control and management of industrial doors, including via internet, simply and quickly.

Nice Industrial Configuration Tools

Innovative system to simplify installation, control and monitoring of industrial automation systems. Configuration software tools and the App for the D-Pro Automatic control unit for the **complete** management of complex industrial doors systems by PC, smartphone or tablet.

By adding the NDA006 communication module

to each D-Pro Automatic control unit, all the working parameters of the system can be transferred and reported to a NDA008 central control unit using a two-wires CAN field bus. The interface allows connection to PCs or servers via intranet or internet connection and also access to D-Pro Automatic parameters, including remotely, to modify them or read the error code history and life cycle.

The ideal solution for large installations, such as logistic centres.

The NDA008 module with integrated router, LAN and USB connections, allows you to access the system remotely, checking it in real time thanks to the possibility of connecting a web cam. Via the management software, the information is accessible directly from a PC connected to an external server.

Better customer support, thanks to more information available.

Collected data may be stored in a central SQL database for further analysis and reporting and can be used for maintenance planning.

Firmware upgrade and bluetooth connection

The NDA004 module for bluetooth connection between D-Pro Automatic and portable devices, smartphones or tablets.

The module can be used to program the limit positions and store the D-Pro Automatic control unit parameters by means of the new application. The NDA004 allows easy upgrade of the firmware version and transfer of the stored settings from one D-Pro Automatic to another, for quick programming of a group of control units.





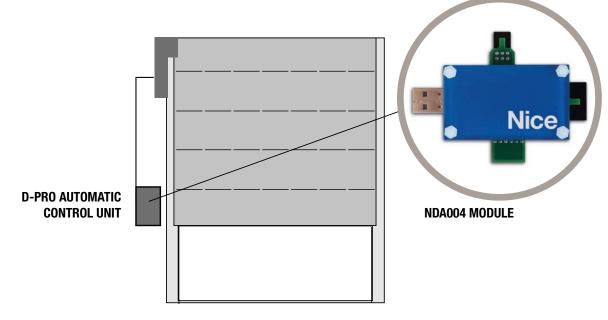
For control unit programming by android smartphone or tablet through Bluetooth connection.

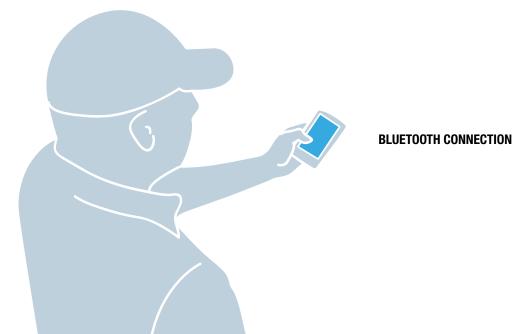
| Codice | Descrizione | PZ./CONF. |
|--------|--|-----------|
| NDA004 | Additional module for programming the control unit with the app Nice Industrial through the Bluetooth connection and for quick firmware upgrades or parameters storage | 1 |
| NDA006 | Additional module for Internet and Intranet communication between D-Pro Automatic control units. To be used in combination with the repeater module NDA008 in order to create a network of remotely controllable ports | 1 |
| NDA008 | Repeater module with graphic display, in plastic box, to control up to 30 communication modules | 1 |

Take advantage of the Nice automation system

More services at your fingertips

The solution for the control of industrial doors, always at your fingertips.





The ideal solution for large installations, such as logistic centres. Everything under control with remote monitoring. **D-PRO AUTOMATIC CONTROL UNIT** COMMUNICATION **MODULE NDA006** (ONE MODULE PER CONTROL UNIT) REPEATER MODULE **NDA008** INTERNET CONNECTION



Take advantage of the Nice gearmotors for industrial automation

- Cutting-edge gearmotors with advanced technology
- Gearmotors for more reliable long-lasting operation
- High quality of detail
- Convenient and practical solutions
- Meets safety requirements

 Performance characteristics compliant with european directives and leading internationally recognized standards, including:

Directive 2004/108/EC: Electromagnetic Compatibility

Directive 2006/42/EC: Machinery Directive

EN 60335-1:2013, EN60335-2-103:2016-05 Safety of electrical products

TÜV NORD CERT GmbH







SWN/SD/SDN/SDNI

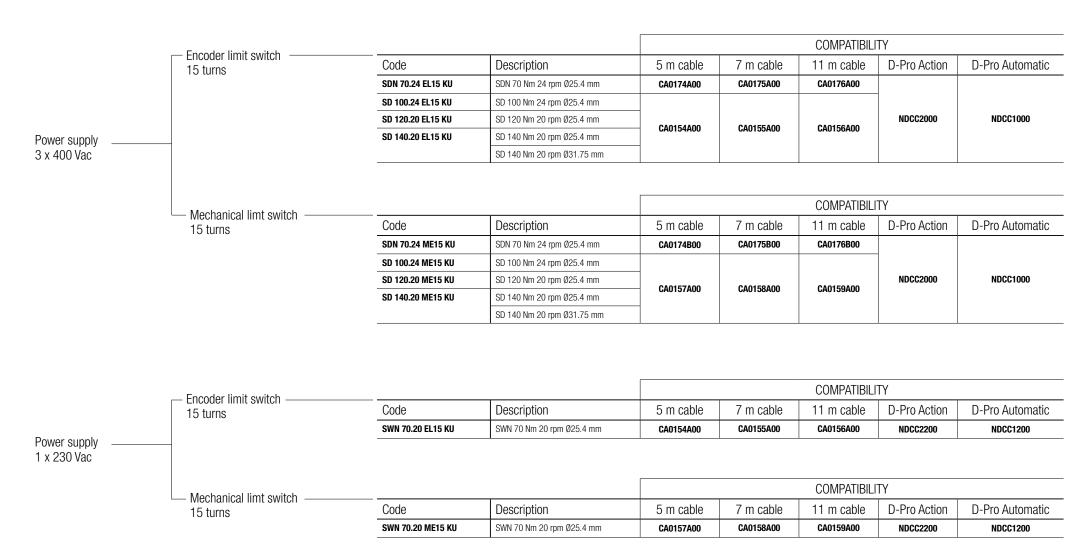
For sectional doors

RDFN/RDFNI
For rolling shutters

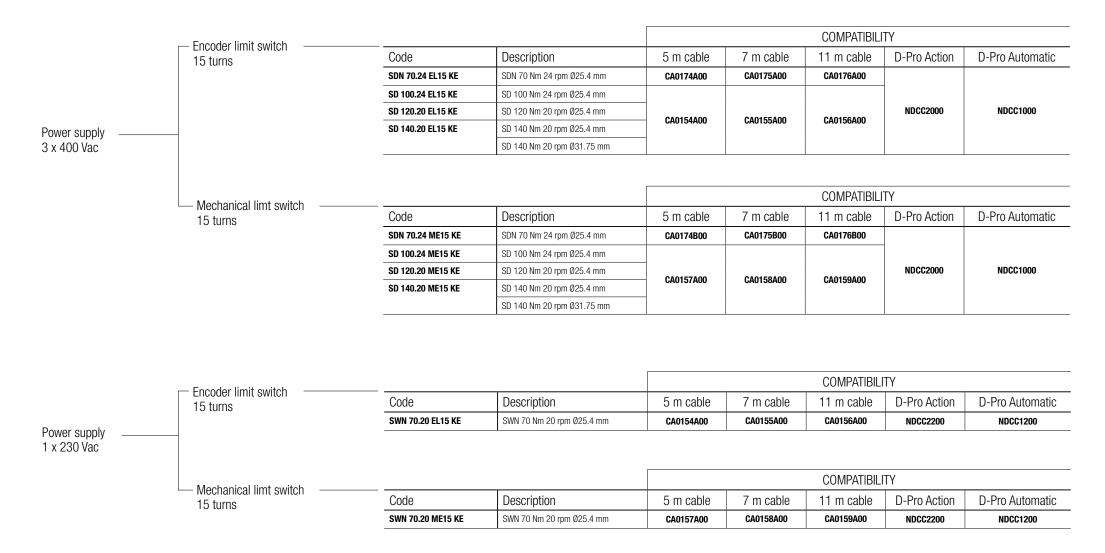
HDFN/HDFNI
For high speed doors

How to choose the ideal motor for sectional doors

Hand crank emergency operation

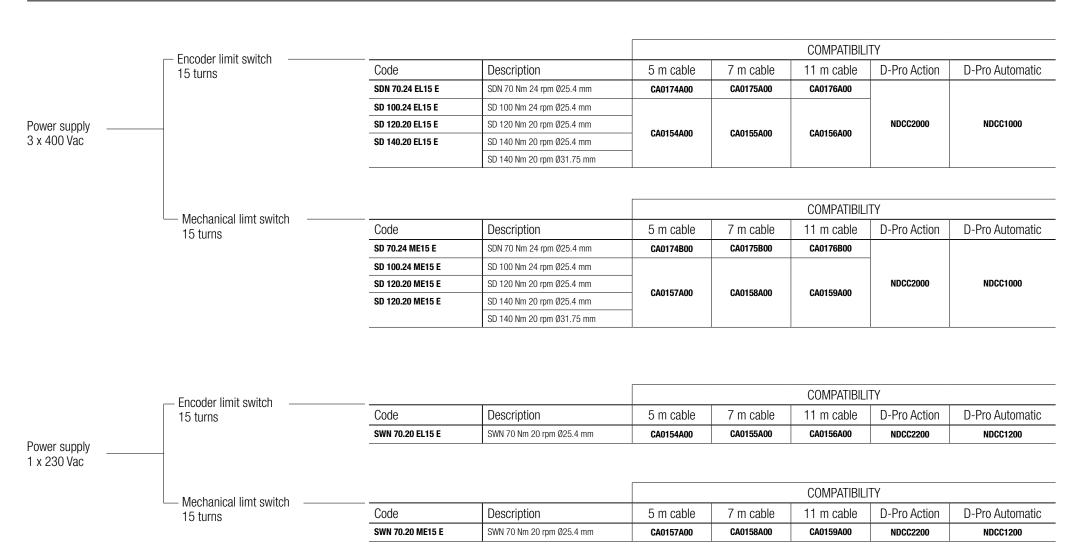


Hand chain emergency operation



How to choose the ideal motor for sectional doors

Emergency release





SWN/SD/SDN/SDNI

For sectional doors









Electromechanical gearmotor for sectional doors. Versions for 230 VAC single-phase and 230/400 VAC three-phase, with new mechanical limit stops or electronic limit switches.

Simple installation:

The gearmotor is installed directly on the shaft of the sectional door. Connection cables equipped with connectors simplify electrical installation.

Sturdy

Gearmotor with bronze gears and permanent lubrication.

Practical

Release available in 3 versions:

- cable release;
- crank emergency;
- chain-operated emergency, the ideal solution for every type of application.

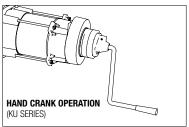
Compact and efficient:

torque up to 140 Nm, speed up to 24 rpm.

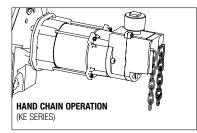
Safety

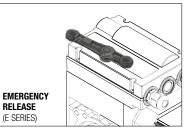
gearmotors compliant with the most recent European standards and directives in terms of safety and technology.

EMERGENCY OPERATIONS

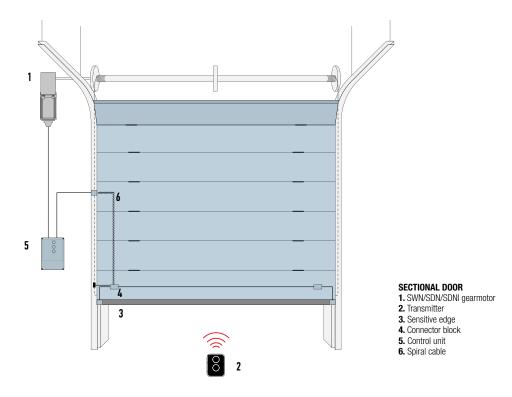








INSTALLATION DIAGRAM



CARATTERISTICHE TECNICHE

| Codice | SWN-70-20 | SDN-70-20 | SD-100-24 | SD-120-20 | SD-140-20 | SDNI-120-20* | | |
|-----------------------------|-----------|-----------|-----------------------------------|-----------------------|-----------|--------------|--|--|
| Shaft Ø (mm) | · | 2 | 5.4 | | 25.4 | 25.4/31.75 | | |
| Max. Torque (Nm) | 70 | | 100 | 120 | 140 | 120 | | |
| Rated torque (Nm) | 60 | | 80 | 100 | 120 | 100 | | |
| Weight lifted** (N) | 2500 | 3000 | 4000 | 4500 | 5500 | 4500 | | |
| Output (rpm) | 20 | | 24 | 2 | 0 | 20*** | | |
| Motor Power (kW) | | 0 | J.37 | | 0.55 | 0.90 | | |
| Limit switch (rpm) | | 15 | | | | | | |
| Working voltage (V) | 1x230 | | 3x230 | / 3x400 | | 1x230 | | |
| Working frequency (Hz) | | | 50 | | | 50**** | | |
| Rated current (A) | 2.3 | 1.8 | 3.1 | 2.6 | 3.45 | 9.5 | | |
| Cycles/hour | 5 | 6 | 7 | 5 | 6 | 6 | | |
| Connection cable (n° x mm²) | | | 4 x 1.5 mm ² - 6 x 0.7 | 75 mm² - 2 x 0.75 mm² | | | | |
| Operating temperature (°C) | | | -5 ÷ | +40 | | | | |
| Noise dB(A) | | <70 | | | | | | |
| Protection rating (IP) | | 54 | | | | | | |
| Weight (kg) | 13. | 2 | 11.1 | 11 | 12 | 22 | | |

^{*}With integrated inverter.

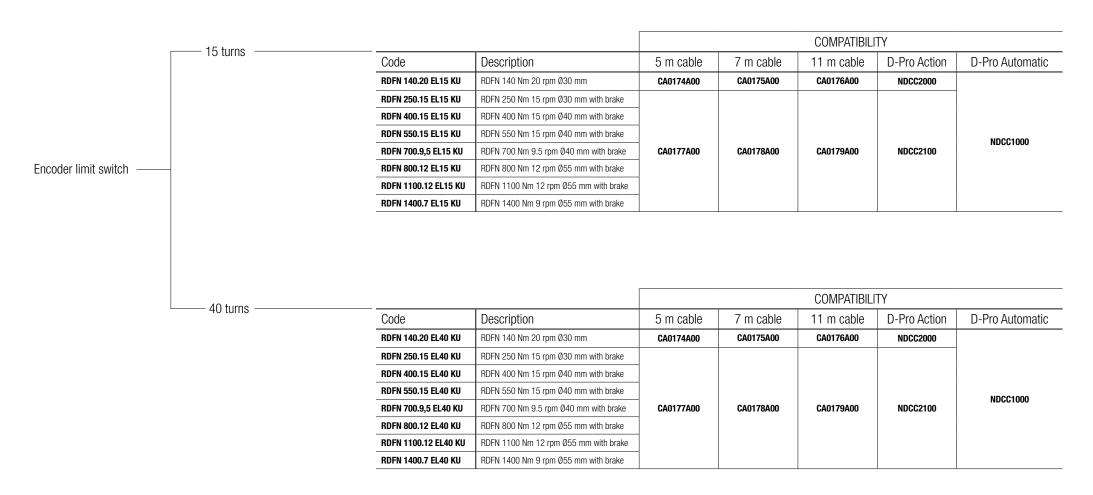
**For balanced doors with 1-4 compensating springs with a Ø 160 mm diameter cable winder drum, observe the permitted cable forces, danger warnings and general rules of safety.

***50 Hz Frequency.

****Working frequency adjustable thanks to inverter.

How to choose the ideal motor for rolling shutters

Hand crank emergency operation, power supply 3 x 400 Vac



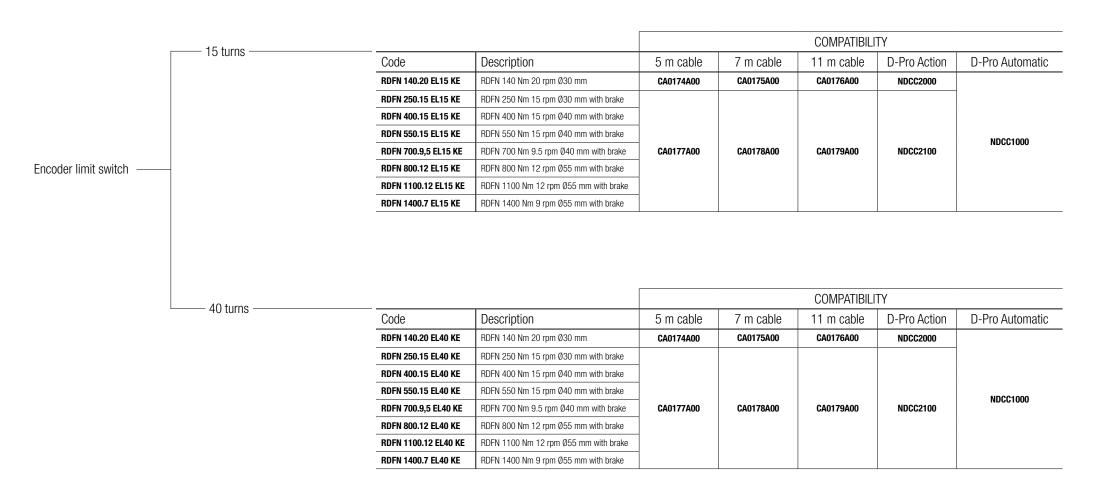
| | 15 turno | | | | | COMPATIBILI | TY | |
|--------------------------|---|----------------------|---------------------------------------|-----------|-----------|-------------|--------------|-----------------|
| | 15 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | RDFN 140.20 ME15 KU | RDFN 140 Nm 20 rpm Ø30 mm | CA0174B00 | CA0175B00 | CA0176B00 | NDCC2000 | |
| | | RDFN 250.15 ME15 KU | RDFN 250 Nm 15 rpm Ø30 mm with brake | | | | | |
| | | RDFN 400.15 ME15 KU | RDFN 400 Nm 15 rpm Ø40 mm with brake | | | | | |
| | | RDFN 550.15 ME15 KU | RDFN 550 Nm 15 rpm Ø40 mm with brake | | | | | NDCC1000 |
| | | RDFN 700.9,5 ME15 KU | RDFN 700 Nm 9.5 rpm Ø40 mm with brake | CA0177B00 | CA0178B00 | CA0179B00 | NDCC2100 | 112001000 |
| Mechanical limt switch — | | RDFN 800.12 ME15 KU | RDFN 800 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1100.12 ME15 KU | RDFN 1100 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1400.7 ME15 KU | RDFN 1400 Nm 9 rpm Ø55 mm with brake | | | | | |
| | 40 h | | | | | COMPATIBILI | TY | |
| | ——— 40 turns ———————————————————————————————————— | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | RDFN 140.20 ME40 KU | RDFN 140 Nm 20 rpm Ø30 mm | CA0174B00 | CA0175B00 | CA0176B00 | NDCC2000 | |
| | | RDFN 250.15 ME40 KU | RDFN 250 Nm 15 rpm Ø30 mm with brake | | | | | |
| | | RDFN 400.15 ME40 KU | RDFN 400 Nm 15 rpm Ø40 mm with brake | | | | | |
| | | RDFN 550.15 ME40 KU | RDFN 550 Nm 15 rpm Ø40 mm with brake | | | | | NDCC1000 |
| | | RDFN 700.9,5 ME40 KU | RDFN 700 Nm 9.5 rpm Ø40 mm with brake | CA0177B00 | CA0178B00 | CA0179B00 | NDCC2100 | 112001000 |
| | | RDFN 800.12 ME40 KU | RDFN 800 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1100.12 ME40 KU | RDFN 1100 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1400.7 ME40 KU | RDFN 1400 Nm 9 rpm Ø55 mm with brake | | | | | |

Hand crank emergency operation, with built-in inverter, power supply 1 x 230 Vac

| Encoder limit switch ———————————————————————————————————— | | | COMPATIBILITY | | | | |
|---|----------------------|---------------------------------------|---------------|-----------|------------|-----------------|-----------------|
| | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | RDFNI 250.24 EL40 KU | RDFNI 250 Nm 24 rpm Ø40 mm with brake | | | | | |
| | RDFNI 350.24 EL40 KU | RDFNI 350 Nm 24 rpm Ø40 mm with brake | - | INCLUSO | - | NON COMPATIBILE | NDCC1100 |
| | RDFNI 500.24 EL40 KU | RDFNI 500 Nm 24 rpm Ø40 mm with brake | | | | | |

How to choose the ideal motor for rolling shutters

Hand chain emergency operation, power supply 3 x 400 Vac



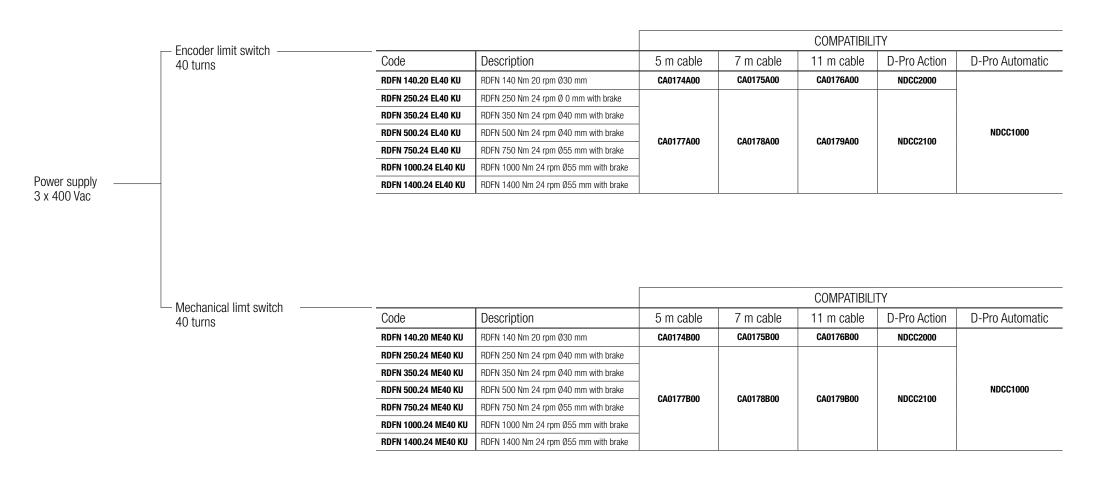
| | 15 turno | | | | | COMPATIBILI | TY | |
|--------------------------|----------------------|----------------------|---------------------------------------|-----------|-----------|-------------|--------------|-----------------|
| | 15 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | RDFN 140.20 ME15 KE | RDFN 140 Nm 20 rpm Ø30 mm | CA0174B00 | CA0175B00 | CA0176B00 | NDCC2000 | |
| | | RDFN 250.15 ME15 KE | RDFN 250 Nm 15 rpm Ø30 mm with brake | | | | | |
| | | RDFN 400.15 ME15 KE | RDFN 400 Nm 15 rpm Ø40 mm with brake | | | | | |
| | | RDFN 550.15 ME15 KE | RDFN 550 Nm 15 rpm Ø40 mm with brake | | | | | NDCC1000 |
| | | RDFN 700.9,5 ME15 KE | RDFN 700 Nm 9.5 rpm Ø40 mm with brake | CA0177B00 | CA0178B00 | CA0179B00 | NDCC2100 | 112001000 |
| Mechanical limt switch — | | RDFN 800.12 ME15 KE | RDFN 800 Nm 12 rpm Ø55 mm with brake | | | | | l |
| | | RDFN 1100.12 ME15 KE | RDFN 1100 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1400.7 ME15 KE | RDFN 1400 Nm 9 rpm Ø55 mm with brake | | | | | |
| | | | | | | COMPATIBILI | TY | |
| ı | ——— 40 turns ——————— | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | RDFN 140.20 ME40 KE | RDFN 140 Nm 20 rpm Ø30 mm | CA0174B00 | CA0175B00 | CA0176B00 | NDCC2000 | |
| | | RDFN 250.15 ME40 KE | RDFN 250 Nm 15 rpm Ø30 mm with brake | | | | | |
| | | RDFN 400.15 ME40 KE | RDFN 400 Nm 15 rpm Ø40 mm with brake | | | | | |
| | | RDFN 550.15 ME40 KE | RDFN 550 Nm 15 rpm Ø40 mm with brake | | | | | NDCC1000 |
| | | RDFN 700.9,5 ME40 KE | RDFN 700 Nm 9.5 rpm Ø40 mm with brake | CA0177B00 | CA0178B00 | CA0179B00 | NDCC2100 | 112001000 |
| | | RDFN 800.12 ME40 KE | RDFN 800 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1100.12 ME40 KE | RDFN 1100 Nm 12 rpm Ø55 mm with brake | | | | | |
| | | RDFN 1400.7 ME40 KE | RDFN 1400 Nm 9 rpm Ø55 mm with brake | | | | | |

Hand chain emergency operation, with built-in inverter, power supply 1 x 230 Vac

| Encoder limit switch | | COMPATIBILITY | | | | | | |
|----------------------|-------------|----------------------|---------------------------------------|-----------|-----------|------------|---------------|-----------------|
| 40 turns | | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | RDFNI 250.24 EL40 KE | RDFNI 250 Nm 24 rpm Ø40 mm with brake | | | | | |
| | RDFNI 350.2 | RDFNI 350.24 EL40 KE | RDFNI 350 Nm 24 rpm Ø40 mm with brake | - | INCLUDED | - | NO COMPATIBLE | NDCC1100 |
| | | RDFNI 350.24 EL40 KE | RDFNI 500 Nm 24 rpm Ø40 mm with brake | | | | | |

How to choose the ideal motor for rolling shutters with chain reduction system

Hand crank emergency operation

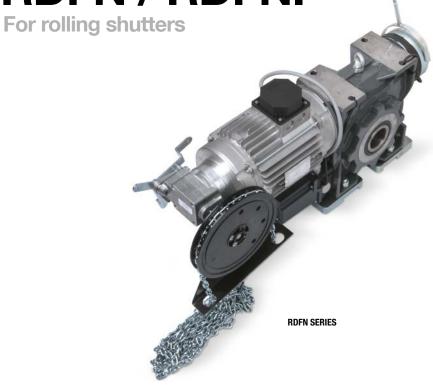


Hand chain emergency operation

| | Engador limit quitab | | | | | COMPATIBIL | TY | | | | |
|--|-------------------------------|----------------------|---------------------------------------|---------------|------------|------------|--------------|-----------------|--|--|--|
| | Encoder limit switch 40 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic | | | |
| | | RDFN 140.20 EL40 KE | RDFN 140 Nm 20 rpm Ø30 mm | CA0174A00 | CA0175A00 | CA0176A00 | NDCC2000 | | | | |
| | | RDFN 250.24 EL40 KE | RDFN 250 Nm 24 rpm Ø40 mm with brake | | | | | | | | |
| | | RDFN 350.24 EL40 KE | RDFN 350 Nm 24 rpm Ø40 mm with brake | | | | | | | | |
| | | RDFN 500.24 EL40 KE | RDFN 500 Nm 24 rpm Ø40 mm with brake | CA0177A00 | CA0178A00 | CA0179A00 | NDCC2100 | NDCC1000 | | | |
| | | RDFN 750.24 EL40 KE | RDFN 750 Nm 24 rpm Ø55 mm with brake | GAGTITAGG | UNUT TONOU | UNU175AUU | NEGOZIOO | | | | |
| | | RDFN 1000.24 EL40 KE | RDFN 1000 Nm 24 rpm Ø55 mm with brake | | | | | | | | |
| Power supply ——————————————————————————————————— | | RDFN 1400.24 EL40 KE | RDFN 1400 Nm 24 rpm Ø55 mm with brake | | | | | | | | |
| | Mechanical limt switch | | | COMPATIBILITY | | | | | | | |
| | 40 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic | | | |
| | | RDFN 140.20 ME40 KE | RDFN 140 Nm 20 rpm Ø30 mm | CA0174B00 | CA0175B00 | CA0176B00 | NDCC2000 | | | | |
| | | RDFN 250.24 ME40 KE | RDFN 250 Nm 24 rpm Ø40 mm with brake | | | | | | | | |
| | | RDFN 350.24 ME40 KE | RDFN 350 Nm 24 rpm Ø40 mm with brake | | | | | | | | |
| | | RDFN 500.24 ME40 KE | RDFN 500 Nm 24 rpm Ø40 mm with brake | CA0177B00 | CA0178B00 | CA0179B00 | NDCC2100 | NDCC1000 | | | |
| | | RDFN 750.24 ME40 KE | RDFN 750 Nm 24 rpm Ø55 mm with brake | | | | | | | | |
| | | RDFN 1000.24 ME40 KE | RDFN 1000 Nm 24 rpm Ø55 mm with brake | | | | | | | | |
| | | RDFN 1400.24 ME40 KE | RDFN 1400 Nm 24 rpm Ø55 mm with brake | | | | | | | | |



RDFN / RDFNI



Electromechanical gearmotor for rolling shutters with integrated brake and mechanical limit stops or electronic limit switches, chain-operated emergency (KE2 series) or crank emergency (KU series) with integrated anti-fallback device.

Simple installation:

the gearmotor is installed directly on the shaft of the rolling door (\varnothing 30 mm, \varnothing 40 mm, \varnothing 55 mm). Connection cables equipped with connectors simplify electrical installation.

Compact and efficient:

torque up to 1,400 Nm, speed up to 24 rpm.

High safety thanks to the anti-fallback safety system and possibility of connecting safety devices such as optical or resistive sensitive edges (8.2 k Ω). Gearmotors compliant with the most recent European standards and directives in terms of safety and technology.

Practical

Release available in 2 versions:

- crank emergency;
- chain-operated emergency, the ideal solution for every type of application.

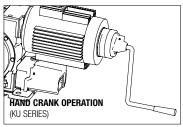
More force:

on the RDN series, torque can be increased by means of 1:2 and 1:3 chain reduction kits.

Available on request: special fastening accessories, shafts and discs for welding.



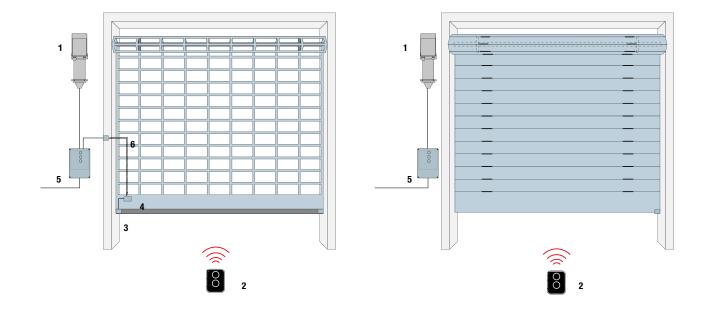
EMERGENCY OPERATIONS





Nice

INSTALLATION DIAGRAM



ROLLING SHUTTERS

- 1. RDFN/RDFNI gearmotor
- 2. Transmitter
- 3. Sensitive edge
- 4. Connector block
- 5. Control unit
- 6. Spiral cable

MAX. SHUTTER WEIGHT (kg):

STEEL TUBE ACCORDING TO 10220 (mm)

| | | | | | | | | | | | | • | , I LLL | . ODL | 10001 | Diiiu | 10 102 | 20 (111 | , | | | | | | | | | | | | | | |
|--------------|-----|--------|-----|-----|--------|-----|-----|-------|-----|------|--------|------|---------|-------|-------|-------|--------|---------|------|--------|------|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|
| | 10 | 01,6x3 | ,6 | 10 | 08,0x3 | ,6 | 1 | 33,0x | 4 | 15 | 59,0x4 | ,5 | 1 | 77,8x | 5 | 19 | 93,7x5 | ,4 | 21 | 19,1x5 | ,9 | 24 | 14,5x6 | ,3 | 27 | 73,0x6 | ,3 | 2 | 98,5x7 | ,1 | 3 | 23,9x7 | ,1 |
| Door h up to | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m | 3 m | 5 m | 7 m |
| RDFN-140-20 | 174 | 147 | 131 | 171 | 146 | 130 | 157 | 139 | 125 | 143 | 130 | 119 | 132 | 124 | 114 | 122 | 117 | 110 | 109 | 108 | 104 | 92 | 91 | 90 | 89 | 89 | 89 | 82 | 82 | 82 | 76 | 76 | 76 |
| RDFN-250-15 | 310 | 263 | 263 | 306 | 261 | 232 | 281 | 248 | 223 | 256 | 232 | 213 | 236 | 221 | 204 | 218 | 209 | 197 | 195 | 194 | 185 | 176 | 176 | 172 | 159 | 159 | 159 | 147 | 147 | 147 | 136 | 136 | 136 |
| RDFN-400-15 | 497 | 422 | 378 | 490 | 418 | 371 | 449 | 397 | 357 | 409 | 372 | 341 | 378 | 354 | 327 | 350 | 335 | 315 | 312 | 310 | 297 | 282 | 282 | 276 | 255 | 255 | 255 | 235 | 235 | 235 | 217 | 217 | 217 |
| RDFN-550-15 | 684 | 580 | 514 | 675 | 574 | 511 | 618 | 546 | 491 | 563 | 512 | 469 | 519 | 486 | 450 | 481 | 461 | 433 | 430 | 427 | 408 | 388 | 388 | 379 | 351 | 351 | 351 | 323 | 323 | 323 | 299 | 299 | 299 |
| RDFN-750-9,5 | 932 | 791 | 701 | 920 | 783 | 696 | 843 | 744 | 669 | 767 | 698 | 640 | 708 | 663 | 613 | 656 | 629 | 590 | 586 | 582 | 557 | 530 | 530 | 517 | 478 | 478 | 478 | 440 | 440 | 440 | 408 | 408 | 408 |
| RDFN-850-12 | - | - | - | - | - | - | - | - | - | 870 | 791 | 725 | 803 | 752 | 695 | 743 | 713 | 669 | 664 | 660 | 631 | 600 | 600 | 586 | 542 | 542 | 542 | 499 | 499 | 499 | 462 | 462 | 462 |
| RDFN-1100-12 | - | - | - | - | - | - | - | - | - | 1126 | 1024 | 939 | 1039 | 973 | 900 | 962 | 922 | 866 | 860 | 854 | 817 | 777 | 777 | 758 | 702 | 702 | 702 | 645 | 645 | 645 | 598 | 598 | 598 |
| RDFN-1400-9 | - | - | - | - | - | - | - | - | - | 1433 | 1303 | 1195 | 1322 | 1238 | 1145 | 1224 | 1174 | 1102 | 1094 | 1087 | 1039 | 989 | 989 | 965 | 893 | 893 | 893 | 821 | 821 | 821 | 761 | 761 | 761 |
| RDFNI-250-24 | 260 | 239 | 195 | 256 | 218 | 194 | 235 | 207 | 186 | 214 | 194 | 178 | 197 | 185 | 171 | 183 | 175 | 164 | 163 | 162 | 155 | 148 | 147 | 144 | 134 | 133 | 132 | 123 | 122 | 122 | 114 | 113 | 113 |
| RDFNI-350-24 | 339 | 287 | 254 | 334 | 285 | 253 | 306 | 270 | 243 | 279 | 254 | 233 | 257 | 241 | 223 | 238 | 228 | 214 | 213 | 212 | 202 | 193 | 192 | 188 | 174 | 173 | 172 | 160 | 159 | 159 | 148 | 148 | 148 |
| RDFNI-500-24 | 508 | 431 | 382 | 502 | 427 | 380 | 460 | 406 | 365 | 418 | 381 | 349 | 386 | 362 | 334 | 357 | 343 | 322 | 319 | 317 | 304 | 290 | 289 | 282 | 261 | 260 | 259 | 240 | 239 | 239 | 222 | 222 | 222 |

The table applies to section bars with a single wall only (thickness 20 mm). The dimensions must be taken into account for winding if section bars with double wall or greater thickness or height are used.

In this case higher torque applies after 1-2 turns. A 20% friction loss is considered for the normal rolling shutters in the table.

t is generally advisable to check the door proportions when there are coverings, section bars with double wall or doors higher than normal, or in the case of particular entry situations that could require other force ratios or cause additional friction losses (e.g. doors that are wider than the height), for example.

TECHNICAL SPECIFICATIONS RDFN SERIES

| Code | RDFN-140-20 | RDFN-250-15 | RDFN-400-15 | RDFN-500-15 | RDFN-750-9.5 | RDFN-850-12 | RDFN-1100-12 | RDFN-1400-9.5 | RDFN-250-24 | RDFN-350-24 | RDFN-500-24 | RDFN-750-24 | RDFN-1000-24 | RDFN-1400-24 |
|-----------------------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------------------------|-------------------|----------------|-------------|-------------|-------------|--------------|--------------|
| Shaft Ø (mm) | 30 | 30 | 40 | 40 | 40 | 55 | 55 | 55 | 30 | 4 | 10 | | 55 | |
| Max. Torque (Nm) | 140 | 250 | 400 | 500 | 750 | 850 | 1100 | 1400 | 250 | 350 | 500 | 750 | 1000 | 1400 |
| Rated Torque (Nm) | 120 | 230 | 360 | 500 | 700 | 760 | 1000 | 1300 | 220 | 300 | 430 | 680 | 900 | 1250 |
| Output (rpm) | 20 | 15 | 15 | 15 | 9.5 | 12 | 12 | 9.5 | | | 2 | 4 | | |
| Motor Power (kW) | 0.55 | 0.75 | 1.1 | 1.5 | 1.5 | 2.2 | 3 | 2.2 | 1.1 | 1.5 | 2.2 | 2.2 | 3 | 4 |
| Limit Switch Range | 15/40 | 15/40 | 15/40 | 15/40 | 15/40 | 15/40 | 15/40 | 15/40 | | | 4 | 0 | | |
| Power Supply (V) | | | | | | | 3x40 | 00 | | - | - | | | |
| Working frequency (Hz) | | | | | | | 50 | | | | | | | |
| Rated current (A) | 2 | 2.6 | 3.4 | 4.1 | 3.5 | 4.6 | 8 | 5.1 | 2.9 | 3.5 | 5 | 7.5 | 8.5 | 10.5 |
| Cycles/hour | 4/1 | 17/5 | 14/7 | 14/4 | -/2 | 10 | 3/5 | -/3 | | | 7 | 7 | | |
| Connection cable (n° x mm²) | | | | | | 4 x 1 | .5 mm ² - 6 x 0.75 | mm² - 2 x 0.75 mm | l ² | | | | | |
| Operating temperature (°C) | | | | | | | -20 ÷ | +40 | | | | | | |
| Noise dB(A) | | | | | | | <7 |) | | | | | | |
| Protection rating (IP) | | | | | | | 54 | | | | | | | |
| Weight (kg) | 13 | 22 | 2 | 28 | 35 | 50 | 52 | 65 | 22 | 29 | 28 | | | |

TECHNICAL SPECIFICATIONS RDFNI SERIES

| Code | RDFNI-250-24 | RDFNI-350-24 | RDFNI-500-24 |
|-----------------------------|--------------|---|--------------|
| Shaft Ø (mm) | 30 | 40 | 40 |
| Max. Torque (Nm) | 250 | 350 | 500 |
| Rated Torque (Nm) | 230 | 300 | 450 |
| Output (rpm) | 24 | 24 | 24 |
| Motor Power (kW) | 1,1 | 1,5 | 2,2 |
| Limit Switch Range | 40 | 40 | 40 |
| Power Supply (V) | | 1x230 | |
| Working frequency (Hz) | | 50 | |
| Rated current (A) | 10 | 11,5 | 15,8 |
| Cycles/hour | 7 | 8 | 7 |
| Connection cable (n° x mm²) | | 4 x 1,5 mm ² - 6 x 0,75 mm ² - 2 x 0,75 mm ² | |
| Operating temperature (°C) | | -20 ÷ +40 | |
| Noise dB(A) | | <70 | |
| Protection rating (IP) | | 54 | |
| Weight (kg) | 24 | 31 | |

How to choose the ideal motor for high speed doors

Hand crank emergency operation, power supply 3 x 400 Vac

| | | | | | | COMPATIBILI | TY | |
|---------------------------|----------|---------------------|--|-----------|-----------|-------------|--------------|-----------------|
| | 15 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | HDFN 35.140 EL15 KU | HDFN 35 Nm 140 rpm Ø25 mm with brake | | | | | |
| | | | HDFN 35 Nm 140 rpm Ø25.4 mm with brake | | | | | |
| | | | HDFN 35 Nm 140 rpm Ø30 mm with brake | | | | | |
| | | HDFN 45.95 EL15 KU | HDFN 45 Nm 95 rpm Ø25 mm with brake | | | | | |
| | | | HDFN 45 Nm 95 rpm Ø25.4 mm with brake | | | | | |
| | | | HDFN 45 Nm 95 rpm Ø30 mm with brake | CA0174A00 | CA0175A00 | CA0176A00 | NDCC2100 | NDCC1000 |
| | | HDFN 60.140 EL15 KU | HDFN 60 Nm 140 rpm Ø25 mm with brake | 0.0174.00 | UAU170A00 | UNUTTONOO | NDOOLIGO | 112001000 |
| Encoder limit switch —— | | | HDFN 60 Nm 140 rpm Ø25.4 mm with brake | | | | | |
| Elicodei IIIIII Switch —— | _ | | HDFN 60 Nm 140 rpm Ø30 mm with brake | | | | | |
| | | HDFN 80.90 EL15 KU | HDFN 80 Nm 90 rpm Ø25 mm with brake | | | | | |
| | | | HDFN 80 Nm 90 rpm Ø25.4 mm with brake | | | | | |
| | | | HDFN 80 Nm 90 rpm Ø30 mm with brake | | | | | |
| | | | | | | | | |
| | 00 to | | | | | COMPATIBILI | TY | |
| | 20 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | HDFN 160.95 EL20 KU | HDFN 160 Nm 95 rpm Ø30 mm with brake | 040477400 | 040470400 | 040470400 | NDOOGLOG | ND004000 |
| | | | HDFN 160 Nm 95 rpm Ø40 mm with brake | CA0177A00 | CA0178A00 | CA0179A00 | NDCC2100 | NDCC1000 |

| | 4.5.h | | | | | COMPATIBIL | TY | |
|--------------------------|----------|---------------------|--|-----------|--------------|-------------|--------------|-----------------|
| | 15 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | HDFN 35.140 ME15 KU | HDFN 35 Nm 140 rpm Ø25 mm with brake | | | | | |
| | | | HDFN 35 Nm 140 rpm Ø25.4 mm with brake | | | | | |
| | | | HDFN 35 Nm 140 rpm Ø30 mm with brake | | | | | |
| | | HDFN 45.95 ME15 KU | HDFN 45 Nm 95 rpm Ø25 mm with brake | | | | | |
| | | | HDFN 45 Nm 95 rpm Ø25.4 mm with brake | | | | | |
| | | | HDFN 45 Nm 95 rpm Ø30 mm with brake | CA0174B00 | CA0175B00 | CA0176B00 | NDCC2100 | NDCC1000 |
| | | HDFN 60.140 ME15 KU | HDFN 60 Nm 140 rpm Ø25 mm with brake | | | 0.10170200 | | |
| Machanical limt awitch | | | HDFN 60 Nm 140 rpm Ø25.4 mm with brake | | | | | |
| Mechanical limt switch — | | | HDFN 60 Nm 140 rpm Ø30 mm with brake | | | | | |
| | | HDFN 80.90 ME15 KU | HDFN 80 Nm 90 rpm Ø25 mm with brake | | | | | |
| | | | HDFN 80 Nm 90 rpm Ø25.4 mm with brake | | | | | |
| | | | HDFN 80 Nm 90 rpm Ø30 mm with brake | | | | | |
| | | | | | | | | |
| | 20 turns | | | | | COMPATIBILI | TY | |
| | ZO turno | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic |
| | | HDFN 160.95 ME20 KU | HDFN 160 Nm 95 rpm Ø30 mm with brake | CA0177B00 | CA0178B00 | CA0179B00 | NDCC2100 | NDCC1000 |
| | | | HDFN 160 Nm 95 rpm Ø40 mm with brake | GAU1//BUU | GAU I / ODUU | GAU1/9DUU | NDGGZ100 | MDCC1000 |

How to choose the ideal motor for high speed doors

Hand crank emergency operation, power supply 1 x 230 Vac, with built-in inverter

| | | | | | | COMPATIBILI | TY | | | |
|------------------------|----------|--|---|---------------|-----------|-------------|-----------------|-----------------|--|--|
| | 15 turns | Code | Description | 5 m cable | 7 m cable | 11 m cable | D-Pro Action | D-Pro Automatic | | |
| | | HDFNI 35.140 E15 KU | HDFNI 35 Nm 140 rpm Ø25 mm with brake | | | | | | | |
| | | | HDFNI 35 Nm 140 rpm Ø25.4 mm with brake | INCLUDED | - | | | | | |
| | | | HDFNI 35 Nm 140 rpm Ø30 mm with brake | | | | | | | |
| | | HDFNI 45.95 EL15 KU | HDFNI 45 Nm 95 rpm Ø25 mm with brake | | | | | | | |
| | | | HDFNI 45 Nm 95 rpm Ø25.4 mm with brake | | | | NO COMPATIBLE | | | |
| | | | HDFNI 45 Nm 95 rpm Ø30 mm with brake | | INCLUDED | - | | NDCC1100 | | |
| | | HDFNI 60.140 EL15 KU | HDFNI 60 Nm 140 rpm Ø25 mm with brake | - | | | NO COMPATIBLE | NDGGTT00 | | |
| | | | HDFNI 60 Nm 140 rpm Ø25.4 mm with brake | | | | | | | |
| Encoder limit switch — | | | HDFNI 60 Nm 140 rpm Ø30 mm with brake | | | | | | | |
| | | HDFNI 80.90 EL15 KU | HDFNI 80 Nm 90 rpm Ø25 mm with brake | | | | | | | |
| | | | HDFNI 80 Nm 90 rpm Ø25.4 mm with brake | | | | | | | |
| | | | HDFNI 80 Nm 90 rpm Ø30 mm with brake | | | | | | | |
| | | | | COMPATIBILITY | | | | | | |
| | 20 turno | | | | | COMPATIBILI | TY | | | |
| | 20 turns | Code | Description | 5 m cable | 7 m cable | COMPATIBILI | TY D-Pro Action | D-Pro Automatic | | |
| | 20 turns | Code HDFNI 120.140 EL20 KU | Description HDFNI 120 Nm 140 rpm Ø30 mm with brake | 5 m cable | 7 m cable | 1 | 1 | D-Pro Automatic | | |
| | 20 turns | <u>-</u> | | 5 m cable | 7 m cable | 1 | 1 | D-Pro Automatic | | |
| | 20 turns | <u>-</u> | HDFNI 120 Nm 140 rpm Ø30 mm with brake | 5 m cable | 7 m cable | 1 | 1 | D-Pro Automatic | | |
| | 20 turns | HDFNI 120.140 EL20 KU | HDFNI 120 Nm 140 rpm Ø30 mm with brake HDFNI 120 Nm 140 rpm Ø40 mm with brake | 5 m cable | | 1 | D-Pro Action | | | |
| | 20 turns | HDFNI 120.140 EL20 KU | HDFNI 120 Nm 140 rpm Ø30 mm with brake HDFNI 120 Nm 140 rpm Ø40 mm with brake HDFNI 160 Nm 95 rpm Ø30 mm with brake | 5 m cable | 7 m cable | 1 | 1 | D-Pro Automatic | | |
| | 20 turns | HDFNI 120.140 EL20 KU HDFNI 160.95 EL20 KU | HDFNI 120 Nm 140 rpm Ø30 mm with brake HDFNI 120 Nm 140 rpm Ø40 mm with brake HDFNI 160 Nm 95 rpm Ø30 mm with brake HDFNI 160 Nm 95 rpm Ø40 mm with brake | 5 m cable | | 1 | D-Pro Action | | | |
| | 20 turns | HDFNI 120.140 EL20 KU HDFNI 160.95 EL20 KU | HDFNI 120 Nm 140 rpm Ø30 mm with brake HDFNI 120 Nm 140 rpm Ø40 mm with brake HDFNI 160 Nm 95 rpm Ø30 mm with brake HDFNI 160 Nm 95 rpm Ø40 mm with brake HDFNI 220 Nm 70 rpm Ø30 mm with brake | 5 m cable | | 1 | D-Pro Action | | | |



HDFN / HDFNI

For high speed doors





Electromechanical gearmotor for high speed doors, with or without integrated inverter, electronic limit switches, crank emergency (KU series), integrated anti-fallback device, brake and fixing bracket.

Simple installation

The HDFN/HDFNI series is installed directly on the shaft of the door (Ø 25 mm, Ø 30 mm and Ø 40 mm). The HDFNI gearmotors are equipped with a pre-wired cable and Plug&Play connection with D-Pro family control units.

Compact and efficient:

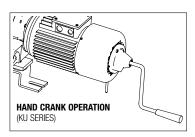
torque up to 300 Nm, speed up to 140 rpm at 50 Hz.

Practical:

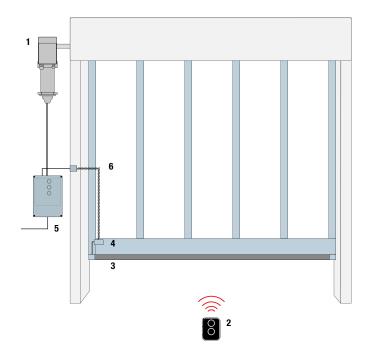
release available with crank emergency.

High safety thanks to the integrated anti-fallback safety system and possibility of connecting safety devices and optical or resistive 8.2 k Ω sensitive bars, the gearmotors are compliant with the most recent European standards and directives.

EMERGENCY OPERATION



INSTALLATION DIAGRAM



TECHNICAL SPECIFICATIONS

| Code | HDFN-35-140 | HDFN-45-95 | HDFN-60-140 | HDFN-80-90 | HDFN-160-95 | HDFNI-35-140 | HDFNI-45-95 | HDFNI-60-140 | HDFNI-80-90 | HDFNI-120-140 | HDFNI-160-95 | HDFNI-220-70 | HDFNI-300-45 |
|-----------------------------|--|------------------|-------------|------------|-------------|--------------|-------------|--------------|-------------|---------------|--------------|--------------|--------------|
| Shaft Ø (mm) | | 25/25.4/30 30/40 | | | 30/40 | 25/25.4/30 | | | 30/40 | | | | |
| Max. Torque (Nm) | 35 | 45 | 60 | 80 | 160 | 35 | 45 | 60 | 80 | 120 | 160 | 220 | 300 |
| Rated Torque (Nm) | 27 | 36 | 40 | 60 | 100 | 30 | 36 | 45 | 60 | 100 | 85 | 200 | 240 |
| Output (rpm) | 140 | 95 | 140 | 90 | 95 | 140 | 95 | 140 | 90 | 140 | 95 | 70 | 45 |
| Motor Power (kW) | 0.75 | 0.55 | 1.1 | 0.9 | 2.2 | 1.1 | 0.9 | 1.1 | 0.9 | | 2 | .2 | |
| Limit Switch Range | | 1 | 15 | | 20 | | | 15 20 | | | | | |
| Power Supply (V) | 3 x 400 | | | 1 x 230 | | | | | | | | | |
| Working frequency (Hz) | | 50 | | | 50 | | | | | | | | |
| Rated current (A) | 1.9 | 1.8 | 2.6 | 9.7 | 4 | | - | 4 | .8 | 15.8 | 15.6 | 12.7 | 15.5 |
| Cycles/hour | 90 | 1400 | 80 | 50 | 50 | 233 | 100 | 130 | 76 | 85 | 58 | 40 | 26 |
| Connection cable (n° x mm²) | 4 x 1.5 mm² - 6 x 0.75 mm² - 2 x 0.75 mm² 4 x 1.5 mm² - 6 x 0.75 mm² - 2 x 0.75 mm² 4 x 1.5 mm² - 6 x 0.75 mm² - 2 x 0.75 mm | | | | nm² | | | | | | | | |
| Operating temperature (°C) | -20 ÷ +40 | | | | -20 ÷ +40 | | | | | | | | |
| Noise dB(A) | <70 | | | <70 | | | | | | | | | |
| Protection rating (IP) | 54 | | | 54 | | | | | | | | | |
| Weight (kg) | 1 | 6 | 17 | 30 | 35 | 1 | 8 | 19 | 32 | | 3 | 37 | |

HIGH SPEED DOORS
1. HDFN/HDFNI gearmotor
2. Transmitter
3. Sensitive edge
4. Connector block
5. Control unit
6. Spiral cable

Electrical Accessories

For D-Pro Automatic control units



NDA004

Bluetooth module for D-Pro Automatic control unit management via smartphone.



NDA006

K60 module for D-Pro Automatic control unit, to communicate via CAN bus (combined with NDA008 module).



NDA008

K65 module for D-Pro Automatic control unit, for remote control (combined with NDA0006 module).



NDA030

K30 expansion module for D-Pro Automatic to add further inputs, outputs and to control traffic lights.



NDA070

K70 expansion module for D-Pro Automatic for 2 channels loop detector.

Other accessories

| Code | Description | | | |
|--------------|---|--|--|--|
| 72000001100 | CEE threephase power supply plug, 1m long | | | |
| CA8.5320 | Schuko singlephase, 90°, 2 m long | | | |
| 73000001023 | Main switch for control units | | | |
| 73000001030 | Emergency switch, Normally Closed | | | |
| 920512000730 | Wall mounted external push button, open-stop-close buttons, 7 m long cable | | | |
| 920512000731 | Wall mounted external push button, open-close buttons, emergency switch, 7 m long cable | | | |

Security devices



920132111001Optosensors with Diagnosis function (10.5 m long cable).



920081155516Spiralcable 5 x 0,5 qmm, 0,8 m spiraled / 1,6 m stretched.



920081155550Spiralcable 5 x 0,5 qmm, 0,8 m spiraled / 5m stretched.



920821000010Safety switch against possible cable breaks or slackering.



920811000010Slack Rope Cylindrical Switch Rope Brake against cable breaks.



NDA010
Junction Box with integrated pneumatic switch for pneumatic safety edge.



NDA011
Junction Box black, with board, plugable with hole Ø 16m.



NDA012
Junction Box black, with board, plugable with hole Ø 16 m incl. SBA-Sensor for autom. Floor Level Regulation.



NDA013
Junction Box black, with board, plugable without hole.

| Code | Description | | | |
|--------------|---|--|--|--|
| 920091100085 | Connecting Cable for 2 junction boxes, lenght 8.5 m | | | |
| 920540100041 | oller Lever Switch | | | |
| 920670000020 | Wicked Door Contact | | | |
| 920630000110 | Pass Through Photocell with Reflector | | | |
| TCLS | Light Curtain 2.500 mm | | | |
| TCLS1 | Light Curtain 2.030 mm | | | |
| TCLSC | Connecting Cable for Light Curtain 10 m | | | |
| TCLSC3 | Connecting Cable for Light Curtain 3 m | | | |
| TCLSFSS230 | FSS controler for Light Curtain 230 Vac | | | |
| TCLSFSS24 | FSS controler for Light Curtain 24 Vdc | | | |
| 920141000010 | Rubber Profile 1m | | | |
| 920320228100 | C-rail, Aluminium 28 mm x 10 mm, in 2 m-pcs. | | | |

Electrical Accessories

Photocells



EPS Pair of outdoor photocells slim.



EPSAPair of outdoor photocells slim, burglar-resistant metal body.



EPMPair of outdoor photocells.



EPMOPair of outdoor photocells, 30° positionable.



EPMAPair of outdoor photocells, burglar-resistant metal body.



EPMAOPair of outdoor photocells, 30° positionable, burglar-resistant metal body.



EPLPair of surface-mounted photocells large.



EPLOPair of surface-mounted photocells large, 30° positionable.



EPLIOPair of photocells large for recessed mounting, 30° positionable.



EKA03
Bowl for recessed mounting
(depth 66 mm) for installation of EKSI,
EKSIEU. Also compatible with EPLIO, EPLIOB,
EDSI, EDSIB.



F210Pair of optical devices for sensitive edges fastened on moving door, can be swivelled through 210° with relay output.
Battery kit (fta1/fta2) compulsory..



FA1 Vandal-proof metal shell.

Selectors, proximity reader and flashing light



EDSWG

Radio digital selector compatible with the receivers of the flor series.



FKSFII

Key selector Era series, european cylinder, for outdoor installation.



EKSIEU

Key selector era series, european cylinder, for recessed mounting.



EKS

Key selector era series, for outdoor installation.



FKS

Key selector era series, for recessed mounting.



ETE

Proximity reader for transponder cards MOCARD and MOCARDP to be combined with the MORX decoder



MORX

Decoder for 1 etp or up to 4 EDS/EDSI connected in parallel, with 1 BM1000 memory for 255 combinations.



MOCARD

Transponder card programmable via OBOX.



MOCARDP

Transponder card programmable via OBox, with sequential coding for multiple entry.



HSB1

Transponder badge newly programmable via OBox, with sequential coding for multiple entry.



ELAC

Signal LED flashing light, 90-240 Vac, for preset control units.

Other accessories

| Code | Description |
|--------|---|
| CHS | Neutral key for EKS, EKSI |
| CHEU | Neutral key for EKSEU, EKSIEU |
| EKA02 | Finishing kit for EDSI, EDSIB, EKSI, EKSIEU installation |
| EKA03 | Bowl for recessed mounting (depth 66 mm) for installation of EKSI, EKSIEU. Also compatible with EPLIO, EPLIOB, EDSI, EDSIB. |
| BM1000 | Additional memory for additional 255 combinations. |

Mechanical accessories

Adapters*

| Description | | | |
|------------------------------------|--|--|--|
| lapter from 31.75 to 25.4 mm shaft | | | |
| dapter from 40 to 25.4 mm shaft | | | |
| Adapter from 40 to 30 mm shaft | | | |
| Adapter from 40 to 31.75 mm shaft | | | |
| Adapter from 55 to 40 mm shaft | | | |
| Adapter from 30 to 25.4 mm shaft | | | |
| Adapter from 30 to 25 mm shaft | | | |
| Adapter from 40 to 25 mm shaft | | | |
| | | | |

^{*}Other sizes are available on request.

Chain emergency operation systems

| Code | Description |
|----------|--|
| NDSP0001 | Emergency handchain system for SD cast bevel gear (low cost) |
| NDSP0009 | Emergency handchain system for SD steel bevel gear |
| NDSP0004 | Emergency handchain system for RDF140 |
| NDSP0006 | Emergency handchain system for RDF-220/350 |
| NDSP0002 | Emergency handchain system for RDF-380/750-9,5 |
| NDSP0007 | Emergency handchain system for RDF750-24/850Nm and above |

Extra chain

| Code | Description | | |
|---|------------------------------|--|--|
| 900029000050 | Additional chain, 5 m length | | |
| 100031010000 Additional chain, in rolls of 100 m, per meter | | | |
| 100031010001 | Link for additional chain | | |

Heating devices

| Code | Description |
|------|---|
| PW1 | Heating element for the automation system |
| TW1 | Regulation thermostat |

Accessories for rolling shutters*

| Code | Description |
|--------------|--|
| NDA540 | Kit with shafts Ø30 mm (motor side with key + opposite side) |
| NDA541 | Kit with shafts Ø40 mm (motor side with key + opposite side) |
| NDA542 | Kit with shafts Ø55 mm (motor side with key + opposite side) |
| 910510000300 | Shaft bearing Ø30 mm |
| 910510000400 | Shaft bearing Ø40 mm |
| 910510000550 | Shaft bearing Ø55 mm |
| 133003201 | Shaft bearing, wall mounted Ø30 mm |
| 133055601 | Shaft bearing, wall mounted Ø40 mm |
| 910310003000 | Triangular bracket for horizontal mounting, up to 300 kg |
| 910310005300 | Triangular bracket for horizontal mounting, up to 530 kg |
| 910310013000 | Triangular bracket for horizontal mounting, up to 1300 kg |
| 910310025000 | Triangular bracket for horizontal mounting, up to 2500 kg |
| 131176001 | Disk for Shaft Ø30, to suit tube Ø98 x 2; 100 x 3 e 101.6 x 3.6 mm |
| 141103201 | Disk for Shaft Ø30, to suit tube Ø133 x 4 mm |
| 131176101 | Disk for Shaft Ø30, to suit tube Ø133 x 2 mm |
| 131176201 | Disk for Shaft Ø30, to suit tube Ø159 x 4.5 mm |
| 141105401 | Disk for Shaft Ø30, to suit tube Ø168.3 x 4.5 mm |
| 141109501 | Disk for Shaft Ø30, to suit tube Ø193.7 x 5.4 mm |
| 131046101 | Disk for Shaft Ø40, to suit tube Ø133 x 4 mm |
| 131025701 | Disk for Shaft Ø40, to suit tube Ø159 x 4,5 mm |
| 131026201 | Disk for Shaft Ø40, to suit tube Ø168.3 x 4.5 mm |
| 141026201 | Disk for Shaft Ø40, to suit tube Ø193.7 x 5.4 mm |
| 141106101 | Disk for Shaft Ø40, to suit tube Ø219.1 x 5.9 mm |
| 141106201 | Disk for Shaft Ø40, to suit tube Ø244.5 x 6.3 mm |

^{*}Other sizes are available on request.

Accessories for chain-driven rolling shutters*

| Code | Description | | | | |
|-----------|---|--|--|--|--|
| NDA520 | Chain Reduction Kit 3/4",2:1,Shaft Ø30 mm, Pignion 12 + 24 Tooth, 2m Roller Chain | | | | |
| NDA521 | nain Reduction Kit 1",2:1,Shaft Ø40 mm, Pignion 12 + 24 Tooth, 2m Roller Chain | | | | |
| NDA522 | Chain Reduction Kit 1"1/4, 2:1,Shaft Ø55 mm, Pignion 12 + 24 Tooth, 2m Roller Chain | | | | |
| NDA523 | Chain Reduction Kit 3/4",3:1,Shaft Ø30 mm, Pignion 12 + 36 Tooth, 2.5m Roller Chain | | | | |
| NDA524 | Chain Reduction Kit 1",3:1,Shaft Ø40 mm, Pignion 12 + 36 Tooth, 2.5m Roller Chain | | | | |
| NDA525 | Chain Reduction Kit 1"1/4, 3:1,Shaft Ø55 mm, Pignion 12 + 36 Tooth, 2.5m Roller Chain | | | | |
| NDA526 | Chain Reduction Kit 1:1 for SD, tension bracket, Shaft Ø25.4 mm, Pignion 12 + 12 Tooth, 1,5m Roller Chain | | | | |
| NDA560 | Small motors foot bracket for chain reduction system | | | | |
| NDA562 | Medium motors foot bracket for chain reduction system | | | | |
| NDA563 | Big motors foot bracket for chain reduction system | | | | |
| 245520003 | Safety Bearing TA 1/2 RD .Max Torque 332 Nm | | | | |
| 245530003 | Safety Bearing TA 2/3 RD Max. Torque 552 Nm | | | | |
| 245300001 | Safety Bearing TA 4 RD Max. Torque 1063 Nm | | | | |
| 245310001 | Safety Baering TA 5 RD con Max. Torque 1943 Nm | | | | |

^{*}Other sizes are available on request.

Era One

Transmitters





• using the Nice O-Box connection interface; The system includes 1, 2, 4 and 9 the receiver's Certificate is entered by just placing channel transmitters and prewired the new Era One next to the O-Box and following receivers with connector, with and the guided procedure on a PC or PDA (figure 2). without built-in transmitter.

33.92 MHz rolling code, with management of Identity Codes and Certificates, self-learning and built-in proximity receiver; with 72 bit **O-Code encoding**, also compatible with receivers with Nice FloR encoding.

Evolved

uses data processing and recognition systems that increase its degree of security and deliver a threefold reduction in automation response times.

Easy memorisation, even at a distance, thanks to Opera receivers.

Senza recarsi in prossimità dell'impianto è possibile abilitare un nuovo trasmettitore Era One in due diverse modalità:

• using a transmitter already programmed in the receiver, thanks to the enabling Code exchange between the two (figure 1);

If a transmitter is stolen or lost, with the O-Box the user can: replace it, maintaining the same functions as in the previous one, disable the old transmitter by increasing the priority level on the new Era One.

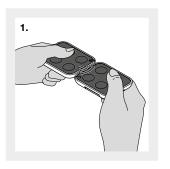
Elegant and convenient

Safe

the Era One transmitter can be used as a stylish, high-tech keyring or fixed to the wall or your car's dashboard with the handy support included in the pack.

Era OneFM, ideal for use in cities or places where many devices are present.

868.46 MHz Rolling Code transmitter line, using frequency modulation (FM), less sensitive to interference than amplitude modulation AM.



Code exchange between a memorized transmitter and a new one, to be memorized.



Possible memorisation using nice o-box and the "certificate".

ERA ONE TRANSMITTERS

| Code | Description | Pcs/Pack |
|--------|------------------------|----------|
| ON1E | 1 channel, 433.92 MHz | 10 |
| ON2E | 2 channels, 433.92 MHz | 10 |
| ON4E | 4 channels, 433.92 MHz | 10 |
| ON9E | 9 channesl, 433.92 MHz | 10 |
| ON1EFM | 1 channel, 868.46 MHz | 10 |
| ON2EFM | 2 channels, 868.46 MHz | 10 |
| ON4EFM | 4 channels, 868.46 MHz | 10 |
| ON9EFM | 9 channels, 868.46 MHz | 10 |

TRANSMITTER TECHNICAL SPECIFICATIONS

| | Carrier frequency | Estimated range | Encoding | Power supply | Battery life | Protection Class | Dimensions Weight |
|--------|-------------------|-------------------------------------|----------------|---------------------------|--------------------------------|---------------------------|-------------------|
| ON_E | 433.92 MHz | 200 m (outdoor); 35 m (if inside | 0-Code 72 bit; | 3 Vdc; lithium battery | 2 years (with 10 transmissions | IP40 (use in protected | 44x55x10 h mm |
| ON_EFM | 868.46 MHz | buildings)* | rolling code | CR2032 | per day) | environments) | 11 g |

^{*} Transmitter range and receiver reception capacity may be affected by any devices operating on the same frequency in the area.

Receivers

The complete line of receivers with Opera system functions



OXI, OXIT



0X2, 0X2T





OXIFM, OXITFM



OX2FM, OX2TFM

Suitable for all installation requirements:

- with connector, compatible with Nice control units with SM port;;
- universal prewired, for use with all types of control unit, or the control of any automation, lighting or irrigation system or other electric circuits.

Maximum flexibility:

up to 1024 transmitters can be memorised.

Convenient and practical

the inclusion of a transmitter in the OXIT/OXITFM, OX2T/OX2TFM and OX4T receivers allows radio codes to be accessed by means of the O-Box multifunction interface even when in inaccessible positions.

OXIT/OXITFM, OX2T/OX2TFM and OX4T receivers can be used as signal repeaters to increase the operating distance between transmitters and other One series receivers.

Secure use, thanks to the 3 password-protected levels.

The O-Box and dedicated software applications for PC and PDA allow:

- quick, user-friendly programming of receivers and transmitters;
- management and printout of code list;
- creation of individual installation databases (useful in multi-user systems).

SM plug-in receiver with Flor system functions, step-by-step and anti-burglar functions.

Management of multi-user system through the unique, personal code: the recognition receivers can receive and memorise up to 255 codes.

Memorisation: a particular receiver output can be associated to each transmitter key (e.g. key 3 TX= output 1 RX).

433.92 MHZ RECEIVERS, WITH OPERA SYSTEM FUNCTIONS

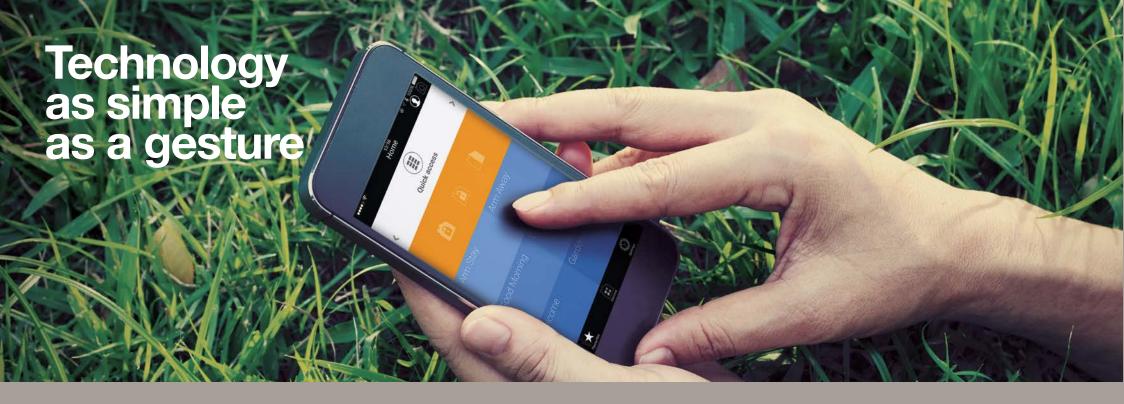
| Code | Description | Pcs./Pack. | | |
|---|--|------------|--|--|
| OXI | 4 channels, without built-in transmitter | 1 | | |
| OXIT | 4 channels, with built-in transmitter | 1 | | |
| PRE-WIRED UNI | VERSAL | | | |
| 0X2 2 channels, without built-in transmitter | | | | |
| 0X2 | 2 channels, without built-in transmitter | 1 | | |
| 0X2 0X2T | 2 channels, without built-in transmitter 2 channels, with built-in transmitter | <u> </u> | | |

868.46 MHZ RECEIVERS, WITH OPERA SYSTEM FUNCTIONS

| Code | Description | Pcs./Pack. | | |
|--|--|------------|--|--|
| OXIFM | 4 channels, without built-in transmitter | 1 | | |
| OXITFM | 4 channels, with built-in transmitter | 1 | | |
| PRE-WIRED | | | | |
| OX2FM 2 channels, without built-in transmitter | | 1 | | |
| | | | | |

433,92 MHZ RECEIVERS, WITH FLOR SYSTEM FUNCTIONS

| WITH SM PLUG-IN | | | | | |
|--|--|--|--|--|--|
| Description | Pcs./Pack. | | | | |
| Up to 4 channels with 256-codes memory | 1 | | | | |
| TUNED DIRECTIONAL AERIAL | | | | | |
| Bracket mounted | 1 | | | | |
| | Description Up to 4 channels with 256-codes memory TUNED DIRECTIONAL AERIAL | | | | |



Nice, easy solutions for Home and Building.

Systems for the automation and control of gates, garage doors, blinds, shutters and alarm systems, with integrated management using smart and intuitive interfaces: practical, functional and elegant solutions to help you enjoy your living spaces to the full.





Nice cares for the environment. Using natural paper it avoids excessive use of raw materials and forest exploitation. Waste is reduced, energy is saved and climate quality is improved.