

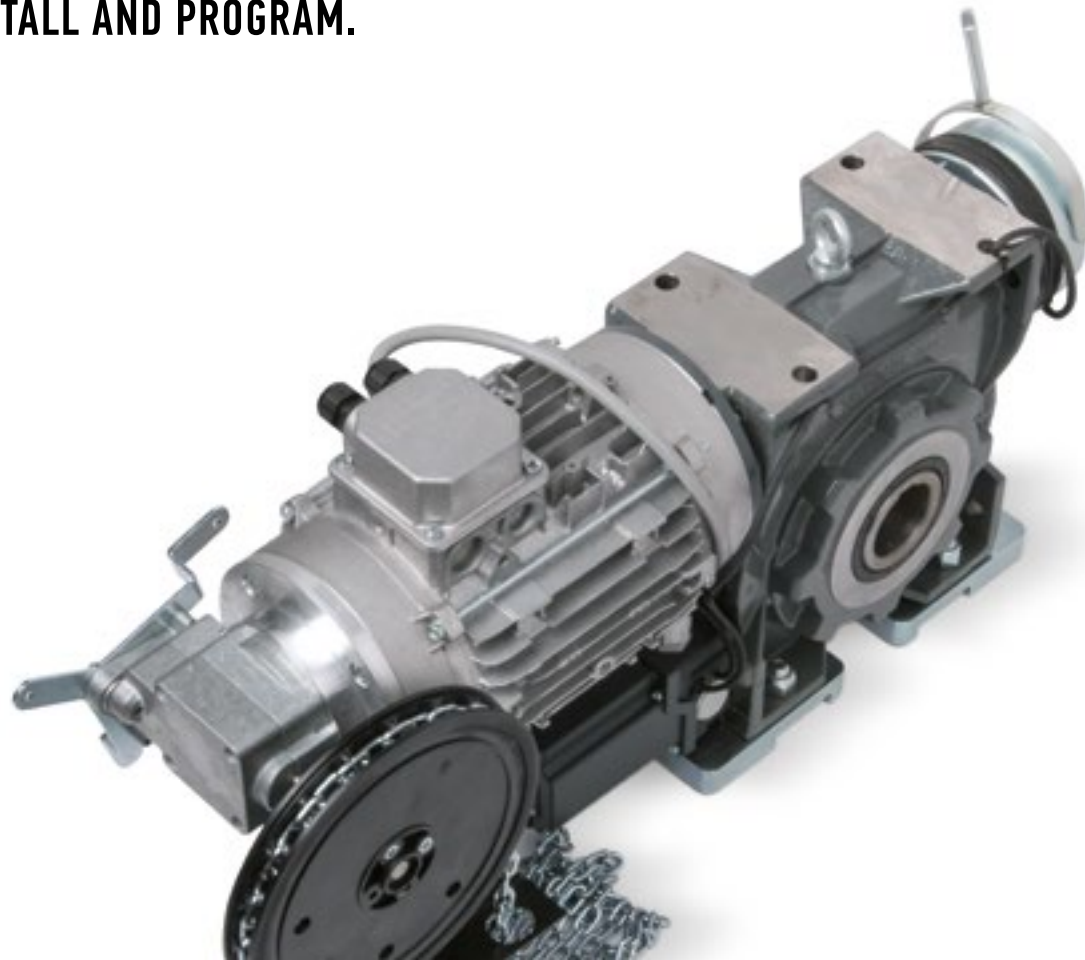
NICE INDUSTRIAL DOORS

A COMPLETE RANGE OF CONTROL UNITS AND GEARMOTORS FOR INDUSTRIAL DOORS.
EVEN EASIER INSTALLATION AND PROGRAMMING



NICE OPENS UP YOUR BUSINESS!

**POWERFUL AND SAFE AUTOMATION SYSTEMS,
EASY TO INSTALL AND PROGRAM.**



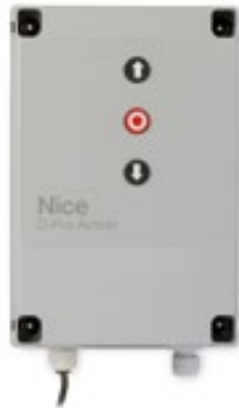
Nice



THE STRENGTH OF THE NEW NICE SOLUTIONS

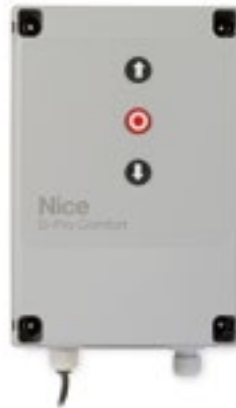
RELIABLE AND VERSATILE CONTROL UNITS FOR INDUSTRIAL
AND COMMERCIAL DOORS.

Numerous functions at your fingertips!



D-PRO ACTION

The basic functions
in the easiest way.



D-PRO COMFORT

Extreme ease of connection,
installation and use.



D-PRO AUTOMATIC

The most advanced and versatile
on the market.

D-PRO ACTION CONTROL UNITS

NEW OPERA

Control units for motors with mechanical limit stop or electronic limit switch, both automatic and deadman operation.

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.



NEW PLASTIC BOX, MORE PRACTICAL, CAN BE OPENED ON EITHER THE RIGHT OR LEFT SIDE. THE IDEAL SOLUTION IN CONFINED SPACES.



PRACTICAL DOOR OPERATION WITH UP - STOP - DOWN BUTTONS ON THE BOX COVER

LONG-LASTING AND VERY RESISTANT IN WET AND DUSTY ENVIRONMENTS

ADDITIONAL MODULES FOR D-PRO ACTION CONTROL UNITS



NDA040
FOR OPTIONAL POTENTIAL
FREE OUTPUTS



IBT4N
INTERFACE MODULE FOR O-VIEW
PROGRAMMER CONNECTION



OVIEW
CONTROL UNIT PROGRAMMING
AND MONITORING DEVICE

D-PRO ACTION CONTROL UNITS

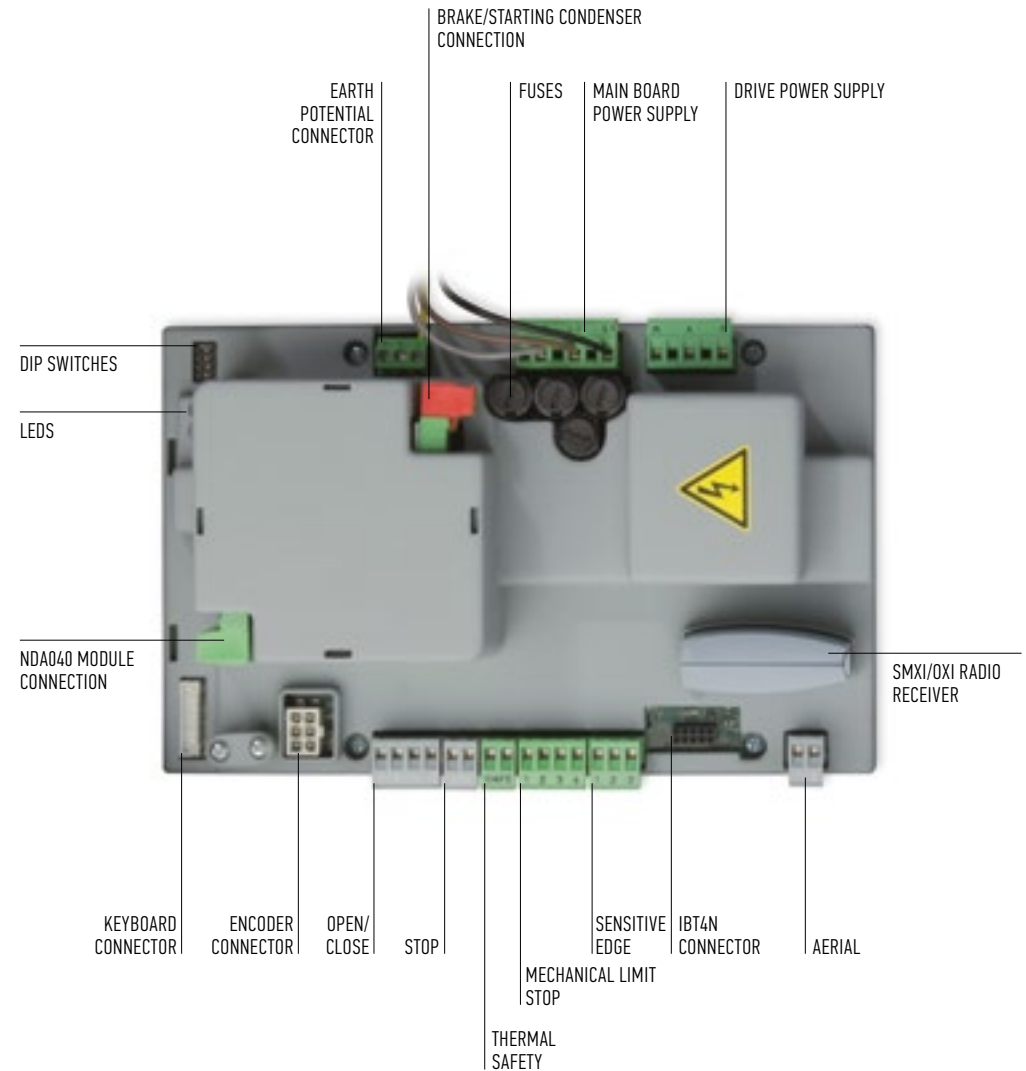
CODE	DESCRIPTION	PCS./PACK
NDCC2200	CONTROL UNIT FOR ONE MOTOR, 230 VAC SINGLE-PHASE, 2.2 KW	1
NDCC2100	CONTROL UNIT FOR ONE MOTOR, 400 VAC THREE-PHASE WITH INTEGRATED BRAKE RECTIFIER, 2.2 KW	1
NDCC2000	CONTROL UNIT FOR ONE MOTOR, 400 VAC THREE-PHASE WITH INTEGRATED BRAKE RECTIFIER, 2.2 KW	1

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 O-VIEW THROUGH THE NICE BUST4 TECHNOLOGY	1
OVIEW	UNIT FOR CONTROL, PROGRAMMING AND DIAGNOSTICS OF THE CONTROL UNIT	1

TECHNICAL SPECIFICATIONS

CODE	NDCC2200	NDCC2000/NDCC2100
POWER SUPPLY (VAC 50/60 Hz)	230	400
MAX MOTOR POWER (kW)		2.2
LOGIC UNIT POWER SUPPLY (Vdc)		24
POWER IN STANDBY		< 5 VA
PRE LIMIT INPUT		PROGRAMMABLE
EXTERNAL INPUTS		UP, DOWN AND IMPULSE, ALL PROGRAMMABLE
SENSITIVE EDGES		OPTICAL, 8.2 KΩ RESISTIVE AND 8.2 KΩ PNEUMATIC
EXTRA OUTPUT		2 FREE PROGRAMMABLE AND POTENTIAL FREE CONTACTS (BY MEANS OF NDA040 MODULE)
DC OUTPUT		24 VDC 1A
STOP INPUT		NORMALLY CLOSED CONTACTS
OPERATING TEMPERATURE (°C)		-20 - +50
PROTECTION CLASS (IP)		55
DIMENSIONS (mm)		210x125x310 h
WEIGHT (kg)		3



D-PRO COMFORT CONTROL UNITS

OPERA BLUEBUS

Advanced control units for motors with mechanical limit stop or electronic limit switch, both automatic and deadman operation.

Equipped with Nice **BlueBUS** technology and compatible with **Opera** system, for automation management, programming and diagnostics, including remotely.

A practical solution thanks to:

- Quick identification of inputs/outputs
- Possibility of reprogramming each connection for a different usage
- 8 LEDs for diagnostics
- Pause time programming.

Complete with a dedicated output for a traffic light.



NEW PLASTIC BOX, MORE PRACTICAL, CAN BE OPENED ON EITHER THE RIGHT OR LEFT SIDE. THE IDEAL SOLUTION IN CONFINED SPACES.

Simple Installation:, with Nice BlueBUS system, you can connect compatible accessories and safety devices easily and quickly with just two wires.

User-friendly: thanks to the D-View programmer (optional), it provides a graphic multifunction display interface with a range of configuration options, such as modifying the opening and closing positions and changing the motor parameters.

With the advantage of modularity: a common logic board suitable for all types of motor, single phase with or without integrated inverter and three-phase, with the possible choice of different power modules (1.1 kW - 2.2 kW) according to the specific application.

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.

Lower consumption and more autonomy, it switches over to stand-by when the system is not in operation.



PRACTICAL OPERATION OF THE DOOR WITH UP - STOP - DOWN BUTTONS ON THE BOX COVER

LONG-LASTING AND VERY RESISTANT IN WET AND DUSTY ENVIRONMENTS

TAKE ADVANTAGE OF THE D-PRO COMFORT CONTROL UNIT



EASY PROGRAMMING WITH 3 BUTTONS AND 8 LEDS FOR DIAGNOSTICS. CLEARLY IDENTIFIED REMOVABLE CLAMPS FOR SIMPLER ELECTRICAL INSTALLATION.



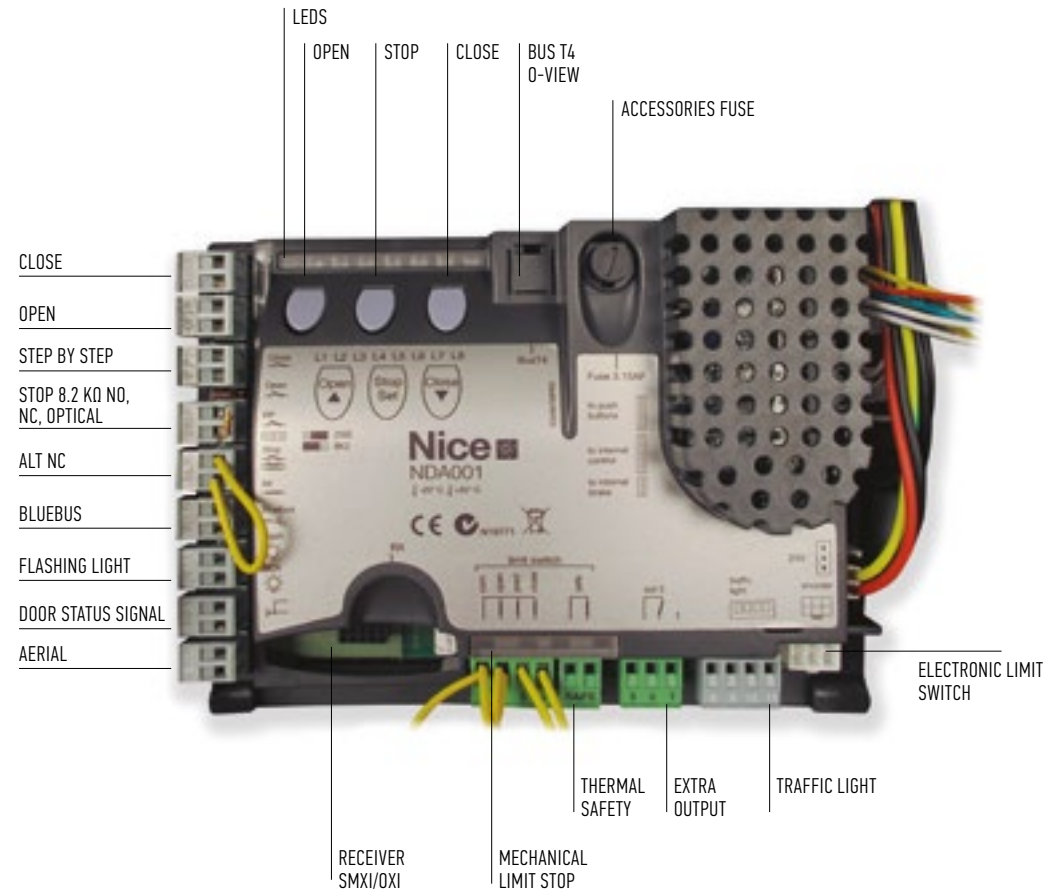
THE POSSIBILITY OF INTERACTING WITH THE CONTROL UNIT BY MEANS OF THE O-VIEW PROGRAMMER AND IMMEDIATE BLUEBUS DEVICES AND LIMIT POSITION LEARNING PROCEDURE GREATLY SIMPLIFY THE INSTALLER'S TASK.

D-PRO COMFORT CONTROL UNITS

CODE	DESCRIPTION	PCS./PACK
NDCC2301	CONTROL UNIT FOR ONE MOTOR, 230 VAC SINGLE-PHASE WITH INVERTER, BLUEBUS TECHNOLOGY, COMPATIBLE WITH OPERA SYSTEM	1
NDCC4001	CONTROL UNIT FOR ONE MOTOR, 208/230/400 VAC, THREE-PHASE, UP TO 1.1 kW. BLUEBUS TECHNOLOGY, COMPATIBLE WITH OPERA SYSTEM	1
NDCC4002	CONTROL UNIT FOR ONE MOTOR, 208/230/400 VAC THREE-PHASE UP TO 2.2 kW. BLUEBUS TECHNOLOGY, COMPATIBLE WITH OPERA SYSTEM	1

TECHNICAL SPECIFICATIONS

CODE	NDCC2301	NDCC4001	NDCC4002
POWER SUPPLY (VAC 50/60 Hz)	230	208/230/400	208/230/400
MAX MOTOR POWER (kW)	1.5	1.1	2.2
LOGIC UNIT POWER SUPPLY (VDC)	24		
POWER IN STANDBY	< 1 W		
EXTERNAL INPUTS	UP, DOWN AND IMPULSE, ALL PROGRAMMABLE		
FLASHING LIGHT OUTPUT	12 V - 21 W		
DOOR STATUS SIGNAL (SCA)	24 V - 10 W		
TRAFFIC LIGHT OUTPUT	24 V - 10 W		
SENSITIVE EDGES	OPTICAL, 8.2 KΩ RESISTIVE AND 8.2 KΩ PNEUMATIC		
BLUEBUS CONNECTION	MAX 12 BLUEBUS UNITS		
EXTRA OUTPUT	FREE PROGRAMMABLE, POTENTIAL FREE CONTACT		
DC OUTPUT	24 Vdc 1A		
STOP INPUT	FOR OPEN, CLOSED CONTACTS, 8.2 KΩ CONSTANT RESISTANCE, OR OPTICAL OSE INPUTS		
OPERATING TEMPERATURE (°C)	-20 ÷ +50		
PROTECTION CLASS (IP)	55		
DIMENSIONS (mm)	210x125x310 h		
WEIGHT (kg)	3.5		



D-PRO AUTOMATIC CONTROL UNITS

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.

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 certification and compliance with EN 12453:2014 mean safety in all situations.



NEW PLASTIC BOX, MORE PRACTICAL, CAN BE OPENED ON EITHER THE RIGHT OR LEFT SIDE. THE IDEAL SOLUTION IN CONFINED SPACES.



EASY PROGRAMMING, IMMEDIATE READING OF SYSTEM STATUS AND DIAGNOSTICS BY MEANS OF THE LARGE 4-DIGIT DISPLAY INTEGRATED IN THE COVER

PRACTICAL OPERATION OF THE DOOR 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



NDA070
FOR VEHICLE DETECTION
BY INDUCTION COILS

D-PRO AUTOMATIC CONTROL UNITS

CODE	DESCRIPTION	PCS./PACK
NDCC1100	CONTROL UNIT FOR ONE MOTOR, 230 VAC WITH INTEGRATED INVERTER OR THREE-PHASE, 2.2 kW	1
NDCC1200	CONTROL UNIT FOR ONE MOTOR, 230 VAC SINGLE-PHASE, 2.2 kW	1
NDCC1000	CONTROL UNIT FOR ONE MOTOR, 400 VAC, THREE-PHASE, 2.2 kW	1

ADDITIONAL MODULES

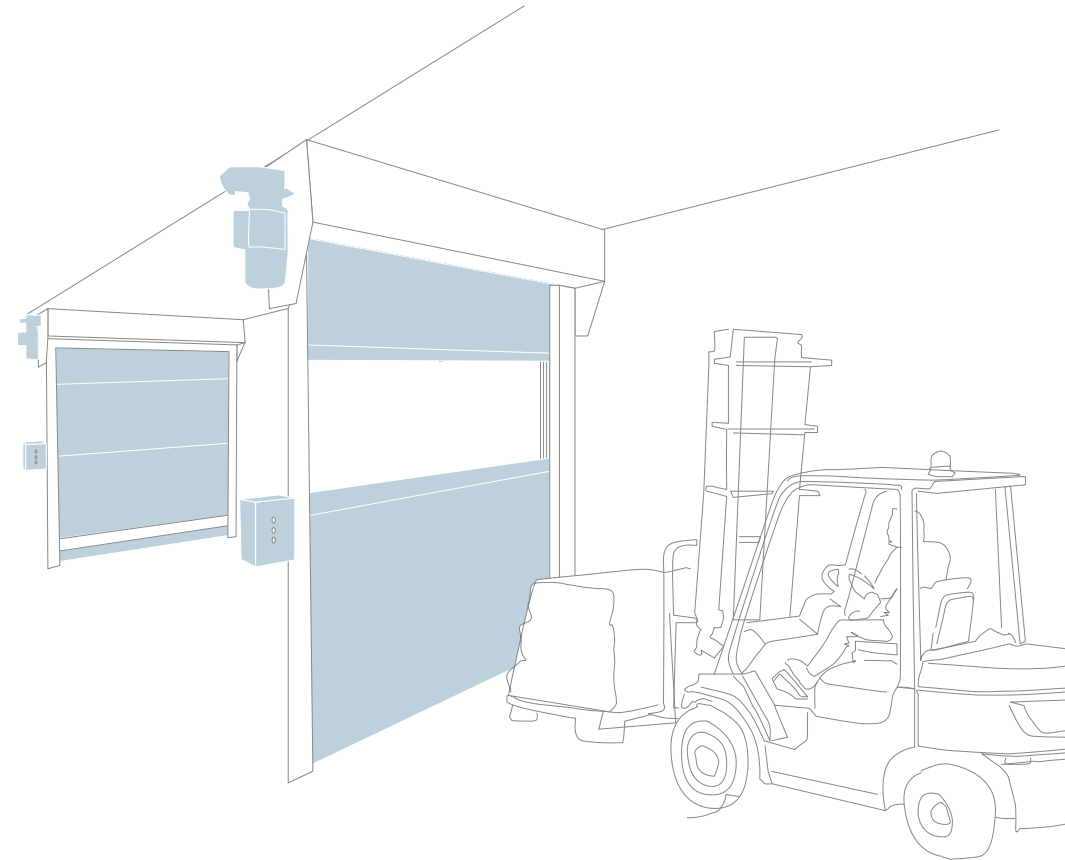
CODE	DESCRIPTION	PCS./PACK
NDA030	ADDITIONAL I/O EXPANDER FOR D-PRO AUTOMATIC CONTROL UNIT WITH TWO-WAY TRAFFIC LIGHTS FUNCTION, SIX MORE GENERAL PURPOSE INPUTS AND FOUR POTENTIAL FREE OUTPUTS	1
NDA070	ADDITIONAL 1 OR 2 CHANNELS MODULE FOR INDUCTION COILS CONNECTION (12-24 Vdc) WITH NUMEROUS PROGRAMMABLE FUNCTIONS	1

TECHNICAL SPECIFICATIONS

CODE	NDCC1100/NDCC1200	NDCC1000
POWER SUPPLY (VAC50/60 Hz)	230	400
MAX MOTOR POWER (kW)	2.2	2.2
LOGIC UNIT POWER SUPPLY (Vdc)	24	
POWER IN STANDBY	< 4 W	
PRE LIMIT INPUT	PROGRAMMABLE	
EXTERNAL INPUTS	UP, DOWN AND IMPULSE, ALL PROGRAMMABLE	
TRAFFIC LIGHT OUTPUT	FREE PROGRAMMABLE, POTENTIAL FREE CONTACT	
SENSITIVE EDGES	OPTICAL, 8.2 KΩ RESISTIVE AND 8.2 KΩ PNEUMATIC	
EXTRA OUTPUT	3 FREE PROGRAMMABLE, POTENTIAL FREE CONTACTS (10 WITH ADDITIONAL MODULE)	
DC OUTPUT	24 Vdc 600 mA	
STOP INPUT	NORMALLY CLOSED CONTACTS	
OPERATING TEMPERATURE (°C)	-20 ÷ +50	
PROTECTION CLASS (IP)	55	
DIMENSIONS (mm)	210x125x310 h	
WEIGHT (kg)	3.5	

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



ADDITIONAL TOOLS FOR MORE FUNCTIONS



D-PRO MONITORING AND INTERFACE MODULES

Latest generation 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 a new 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 new 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 graphic display guarantees immediate reporting of problems or incorrect configuration. 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

New 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.



NDA004
PROGRAMMING AND
INSTALLATION MODULE



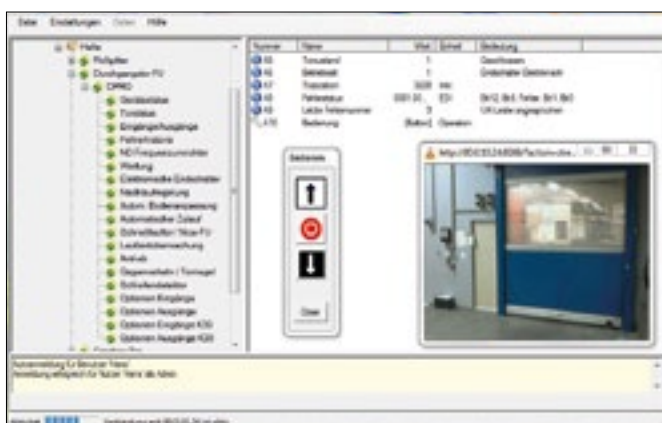
NDA006
COMMUNICATION MODULE



NDA008
REPEATER MODULE
IN A PLASTIC BOX

CODE	DESCRIPTION	PCS./PACK
NDA004	ADDITIONAL MODULE FOR PROGRAMMING THE CONTROL UNIT WITH A NEW APP THROUGH THE BLUETOOTH CONNECTION AND FOR QUICK FIRMWARE UPGRADES OR PARAMETERS STORAGE	1
NDA006	ADDITIONAL MODULE FOR PROGRAMMING THE CONTROL UNIT WITH A NEW APP THROUGH THE BLUETOOTH CONNECTION AND FOR QUICK FIRMWARE UPGRADES OR PARAMETERS STORAGE	1
NDA008	REPEATER MODULE WITH GRAPHIC DISPLAY, IN PLASTIC BOX, TO CONTROL UP TO 30 COMMUNICATION MODULES	1

NICE INDUSTRIAL CONFIGURATION TOOL



SOFTWARE FOR SYSTEM
CONFIGURATION BY PC.



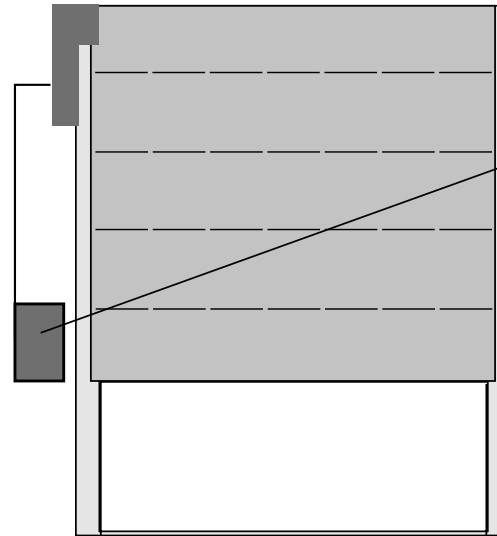
APP FOR CONTROL UNIT PROGRAMMING
BY ANDROID SMARTPHONE OR TABLET
THROUGH BLUETOOTH CONNECTION.

TAKE ADVANTAGE OF THE NICE AUTOMATION SYSTEM

MORE SERVICES AT YOUR FINGERTIPS!

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

D-PRO AUTOMATIC
CONTROL UNIT

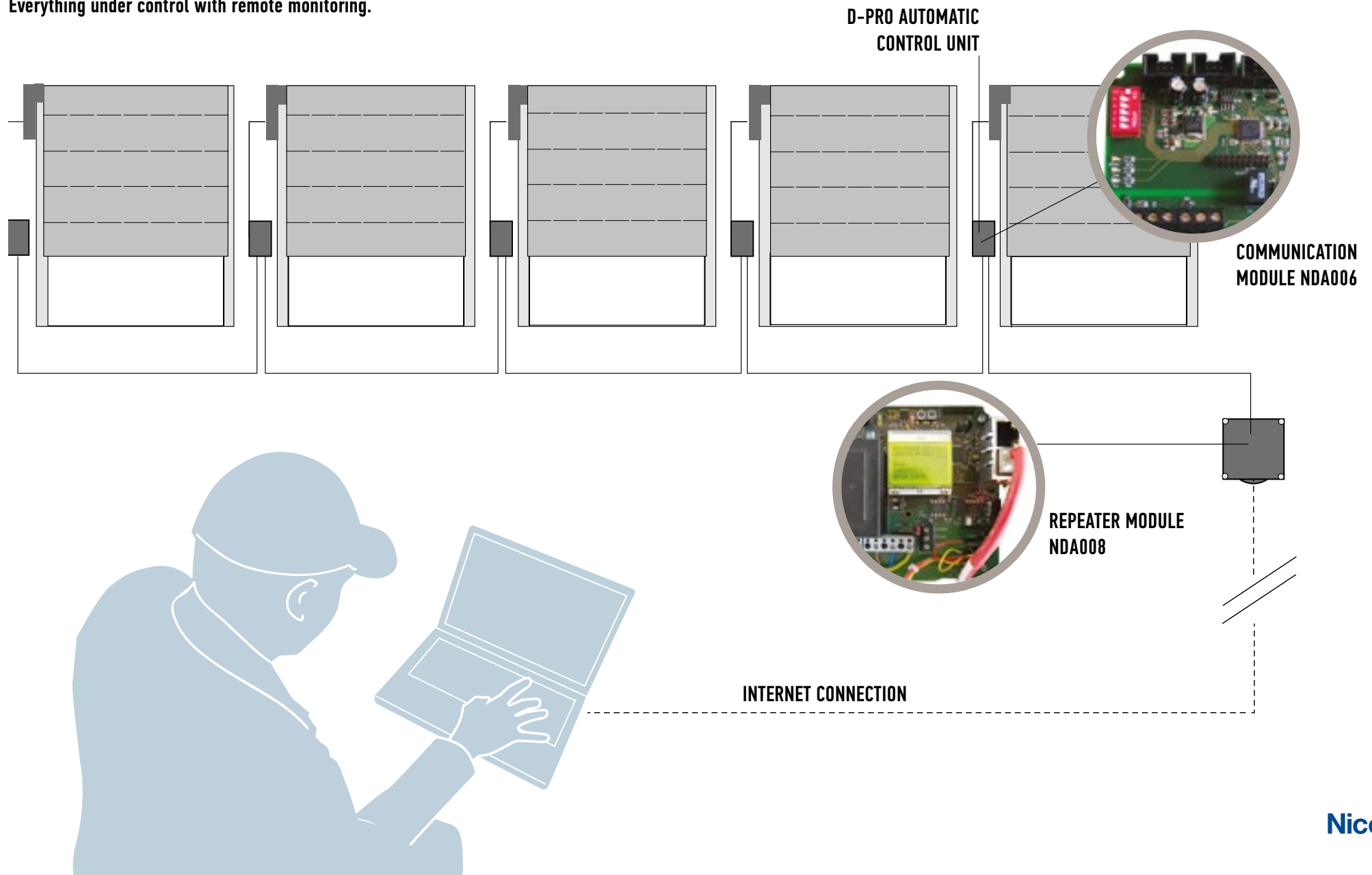


NDA004 MODULE

BLUETOOTH CONNECTION



The ideal solution for large installations, such as logistic centres.
Everything under control with remote monitoring.



NICE MADE-TO-MEASURE SOLUTIONS

VERSATILE AUTOMATION SYSTEMS,
EASY TO INSTALL AND PROGRAM.



TAKE ADVANTAGE OF THE NICE GEARMOTORS FOR INDUSTRIAL AUTOMATION

- CUTTING-EDGE GEARMOTORS WITH ADVANCED TECHNOLOGY
- NEW 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, EN60335-2-103:2003 Safety of electrical products



SWN/SDN/SDNI

for sectional doors



RDFN/RDN

for rolling doors



HDFN/HDFNI

for high speed doors

SWN/SDN/SDNI

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 30 rpm.

Safety:

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



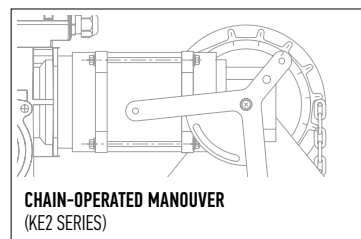
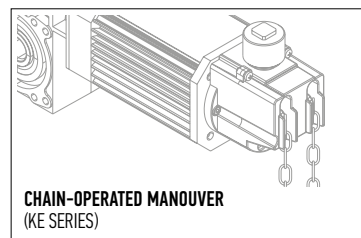
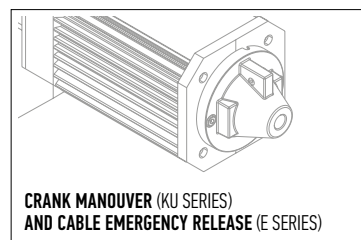
TECHNICAL SPECIFICATIONS

	SWN-70-24	SDN-70-24	SDN-80-30	SDN-100-24	SDN-140-20	SDNI-120-20*
SHAFT Ø (mm)	25,4	25,4	25,4	25,4	25,4/31,75	25,4/31,75
MAX. TORQUE (mM)	70	70	80	100	140	120
RATED TORQUE (Nm)	70	70	80	100	140	120
WEIGHT LIFTED** (kg)	250	300	350	450	600	500
OUTPUT (rpm)	24	24	30	24	20	20
MOTOR POWER (kW)	0.37	0.37	0.55	0.55	0.55	0.90
LIMIT SWITCH (rpm)	15	15	15/40	15	15/40	15/40
WORKING VOLTAGE (V/Hz)	1x230V - 50Hz	3x230V/3x400V - 50Hz				1x230V - 50Hz
DUTY CYCLE	S3-25%	S3-60%				
OPERATING TEMPERATURE (°C)				-5 ÷ +40		
NOISE dB(A)				<70		
PROTECTION RATING (IP)				54		
WEIGHT (kg)	13,2			18		20

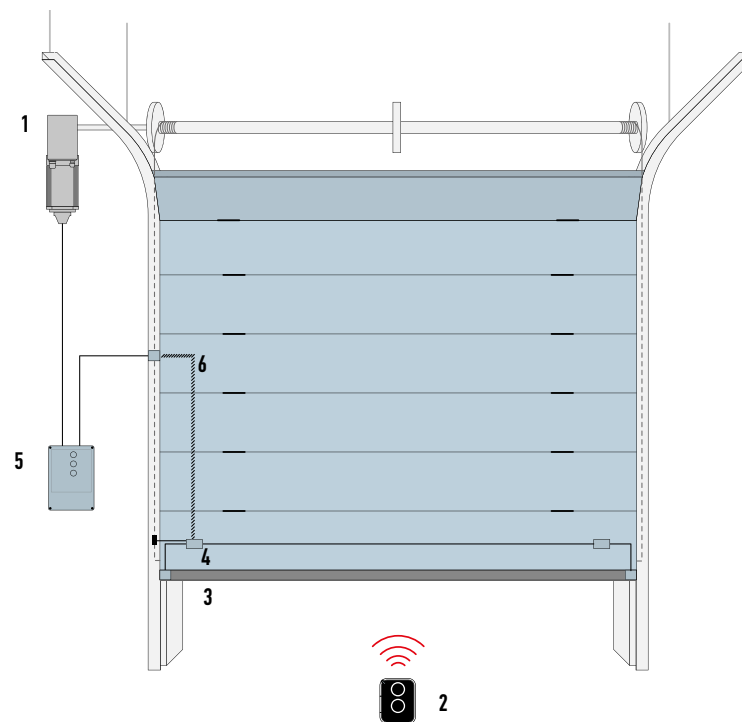
*With integrated inverter.

**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.

MANUAL OPERATIONS



INSTALLATION DIAGRAM



SECTIONAL DOOR

- 1. SWN/SDN/SDNI GEARMOTOR 2. TRANSMITTER 3. SENSITIVE EDGE
- 4. CONNECTOR BLOCK 5. CONTROL UNIT 6. SPIRAL CABLE

RDFN/RDN

Electromechanical gearmotor for rolling doors 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 (Ø 30 mm, Ø 40 mm, Ø 55 mm). Connection cables equipped with connectors simplify electrical installation.

Compact and efficient:

torque up to 1,400 Nm, speed up to 30 rpm.

Unbeatable safety:

thanks to the anti-fallback safety system and possibility of connecting safety devices such as optical or resistive sensitive edges (8.2 kΩ). 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.



RDFN SERIES



TECHNICAL SPECIFICATIONS	RDFN-80-30	RDFN-140-20	RDFN-250-15	RDFN-400-15	RDFN-550-15	RDFN-750-9.5	RDFN-850-12	RDFN-1100-12	RDFN-1400-9
SHAFT Ø (mm)	30	30	30	40	40	40	55	55	55
MAX. TORQUE (Nm)	80	140	250	400	550	750	850	1100	1400
RATED TORQUE (Nm)	80	140	250	400	550	750	850	1100	1400
OUTPUT (rpm)	30	20	15	15	15	9.5	12	12	9
MOTOR POWER (kW)	0.55	0.55	0.75	1.1	1.5	1.5	2.2	3	2.2
LIMIT SWITCH RANGE	15/40	15/40	15	15/40	15/40	15/40	15/40	15/40	15/40
POWER SUPPLY (V-Hz)	3x400V - 50Hz								
DUTY CYCLE	S3-60%								
OPERATING TEMPERATURE (°C)	-5 ÷ +40								
NOISE dB(A)	<70								
PROTECTION RATING (IP)	54								
WEIGHT (kg)	14,5	19	24	24	24	28	80	87,5	84

Gearmotors with integrated anti-fallback device, independent of speed and position.

RDN specifications are similar to RDFN specifications, except for speed.

This is higher, up to 24 rpm, as they are designed to operate with 1:2 or 1:3 chain reduction kits.

MAX. SHUTTER WEIGHT (KG):

STEEL TUBE ACCORDING TO 10220 (mm)

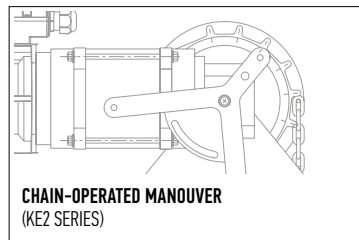
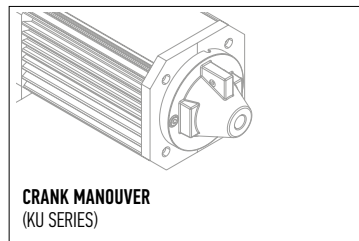
GEARMOTOR RDN SERIES	101,6X3,6			108,0X3,6			133,0X4			159,0X4,5			177,8X5			193,7X5,4			219,1X5,9			244,5X6,3			273,0X6,3			298,5X7,1			323,9X7,1		
	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m	3 m	5 m	7 m			
RDFN-80-30	99	84	74	98	83	74	89	79	71	81	74	68	75	70	65	70	67	63	62	62	59	56	56	55	-	-	-	-	-	-	-	-	-
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

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.

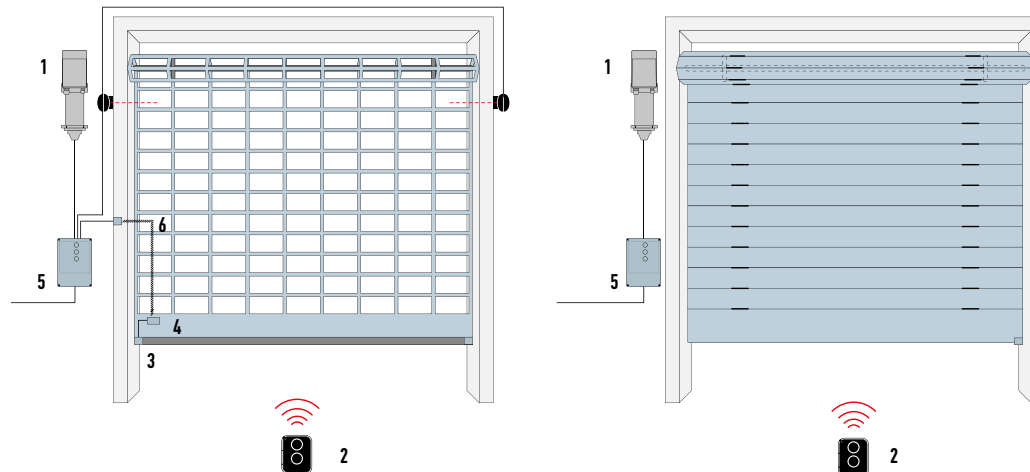
In this case higher torque applies after 1-2 turns. A 20% friction loss is considered for the normal rolling shutters in the table.

It 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.

MANUAL OPERATIONS



INSTALLATION DIAGRAM



SHUTTERS

1. RDFN/RDN GEARMOTOR
2. TRANSMITTER
3. SENSITIVE EDGE
4. CONNECTOR BLOCK
5. CONTROL UNIT
6. SPIRAL CABLE

HDFN/HDFNI

Practical:

release available with crank emergency.

Unbeatable safety:

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

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.



HDFNI SERIES

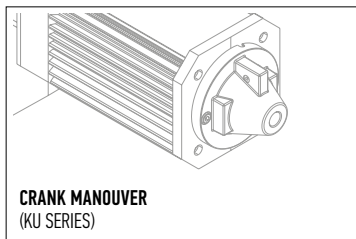


TECHNICAL SPECIFICATIONS

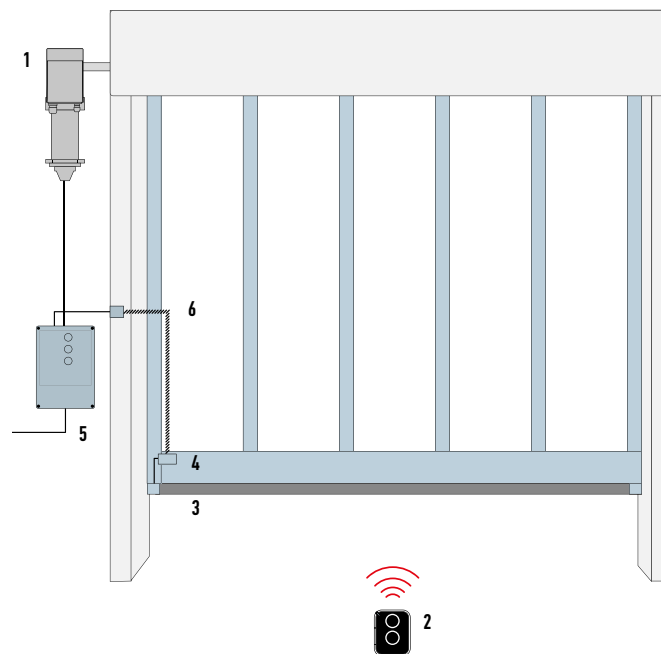
	HDFN-35-140	HDFN-45-95	HDFN-60-140	HDFN-80-90	HDFNI-35-140*	HDFNI-45-90*	HDFNI-80-90*	HDFNI-60-140*	HDFNI-120-140*	HDFNI-160-95*	HDFNI-220-70*	HDFNI-300-45*
SHAFT Ø (mm)	25/30				25/30				30/40			
MAX. TORQUE (mNm)	35	45	60	80	35	45	80	60	120	160	220	300
RATED TORQUE (Nm)	35	45	60	80	35	45	80	60	120	160	220	300
OUTPUT (rpm)	140	95	140	90	140	90	90	140	140	95	70	45
MOTOR POWER (kW)	0.75	0.55	1.1	0.9	0.75	0.9	0.9	1.1	2.2	2.2	2.2	2.2
LIMIT SWITCH (rpm)	15				15				20			
WORKING VOLTAGE (V/Hz)	3x400V - 50Hz				3x400V - 50Hz				1x230V - 50Hz			
DUTY CYCLE	S3-60%				S3-60%				S3-60%			
OPERATING TEMPERATURE (°C)	-5 ÷ +40				-5 ÷ +40				-5 ÷ +40			
NOISE dB(A)	<70				<70				<70			
PROTECTION RATING (IP)	54				54				54			
WEIGHT (kg)	16	16	17	17	20				26			

*Torque may differ from the declared value accordingly to the kind of installation.

MANUAL OPERATIONS



INSTALLATION DIAGRAM



HIGH SPEED DOORS

1. HDFN/HDFNI GEARMOTOR
2. TRANSMITTER
3. SENSITIVE EDGE
4. CONNECTOR BLOCK
5. CONTROL UNIT
6. SPIRAL CABLE

ELECTRICAL ACCESSORIES

SBA, automatic adjustment sensor for lower limit position.

For electronic limit switch versions only.

Smart: Patented solution that automatically changes the lower limit position in the case of flooring modifications or defective door closings due to wear or other reasons.

Precise: The new position is recorded in the control unit and reproduced on the next door movement.

Flexible: It operates combined with all Nice Industrial motors and D-Pro series control units (no additional modules needed).



NDA012



920091000010
NDA011



NDA013



NDA010



920132111001



920081155516



920811000010



920821000010

CODE	DESCRIPTION
NDA012	SBA SENSOR WITH CONNECTOR BLOCK FASTENED ON THE DOOR WITH REMOVABLE TERMINALS
920091000010	CONNECTOR BLOCK FASTENED ON THE DOOR, WITHOUT BOARD, WITH 16 mm FRONT HOLE
NDA011	CONNECTOR BLOCK FASTENED ON THE DOOR FOR CONNECTING SENSITIVE EDGE (PHOTOCELLS) AND SPIRAL CABLE CODE 920081155516, WITH 16 mm FRONT HOLE
NDA013	CONNECTOR BLOCK FASTENED ON THE DOOR FOR CONNECTING SAFETY DEVICES PROTECTING AGAINST POSSIBLE CABLE BREAKS (FOR SECTIONAL DOORS)
NDA010	CONNECTOR BLOCK FASTENED ON THE DOOR WITH INTEGRATED PNEUMATIC SWITCH, FOR USE WITH PNEUMATIC SAFETY BARS
920132111001	PAIR OF PHOTOCELLS WITH \varnothing 11.5 mm FOR OPTICAL SENSITIVE EDGE, 11.5 TO 22 mm ADAPTER INCLUDED, FOR DOORS UP TO 7 m WIDE (CONNECTION CABLES 10.5 m - 1 m)
920081155516	5-WIRE SPIRAL CABLE WITH EXTENSION FROM 0.8 TO 1.6 m, FOR OPTICAL OR SENSITIVE EDGE CONNECTION
920811000010	CYLINDRICAL SAFETY SWITCH TO PROTECT AGAINST POSSIBLE CABLE BREAKS (FOR SECTIONAL DOORS)
920821000010	SAFETY SWITCH TO PROTECT AGAINST POSSIBLE CABLE BREAKS OR SLACKENING

ERA ONE

The system includes 1, 2, 4 and 9 channel transmitters and prewired receivers with connector, with and without built-in transmitter.

433.92 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.



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 CHANNELS, 433.92 MHz	10

TRANSMITTER TECHNICAL SPECIFICATIONS

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

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

The complete line of receivers with Opera system functions, suitable for all installation requirements:

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


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.



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).


433.92 MHz RECEIVERS, WITH OPERA SYSTEM FUNCTIONS

WITH CONNECTOR	CODE	DESCRIPTION	PCS/PACK
	OXI	4 CHANNELS, WITHOUT BUILT-IN TRANSMITTER	1
	OXIT	4 CHANNELS, WITH BUILT-IN TRANSMITTER	1


PRE-WIRED UNIVERSAL

	OX2	2 CHANNELS, WITHOUT BUILT-IN TRANSMITTER	1
	OX2T	2 CHANNELS, WITH BUILT-IN TRANSMITTER	1
	OX4T	4 CHANNELS, WITH BUILT-IN TRANSMITTER	1

868.46 MHz RECEIVERS, WITH OPERA SYSTEM FUNCTIONS

WITH CONNECTOR	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
	OX2TFM	2 CHANNELS, WITH BUILT-IN TRANSMITTER	1

EASY SOLUTIONS FOR ALL NEEDS

Nice offers simple and reliable solutions for the management of multiple light points, automations and electrical loads.

FOR AWNINGS, VERTICAL
AWNINGS AND BLINDS

FOR ALARMS

FOR GARAGE
DOORS

FOR SLIDING AND SWING GATES
AND ROAD BARRIERS





FOR IRRIGATION
SYSTEMS

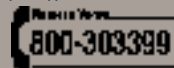
FOR LIGHTING SYSTEMS

NICE IS THE SIMPLEST INTEGRATION/
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 ELECTRONICS/THE FINEST DESIGN/THE MOST
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