Normstahl

My Door.

NEW

SPARK

GARAGE DOOR OPERATOR

Normstahl Connect

Powered by

Yale

Yale Home App

NORMSTAHL

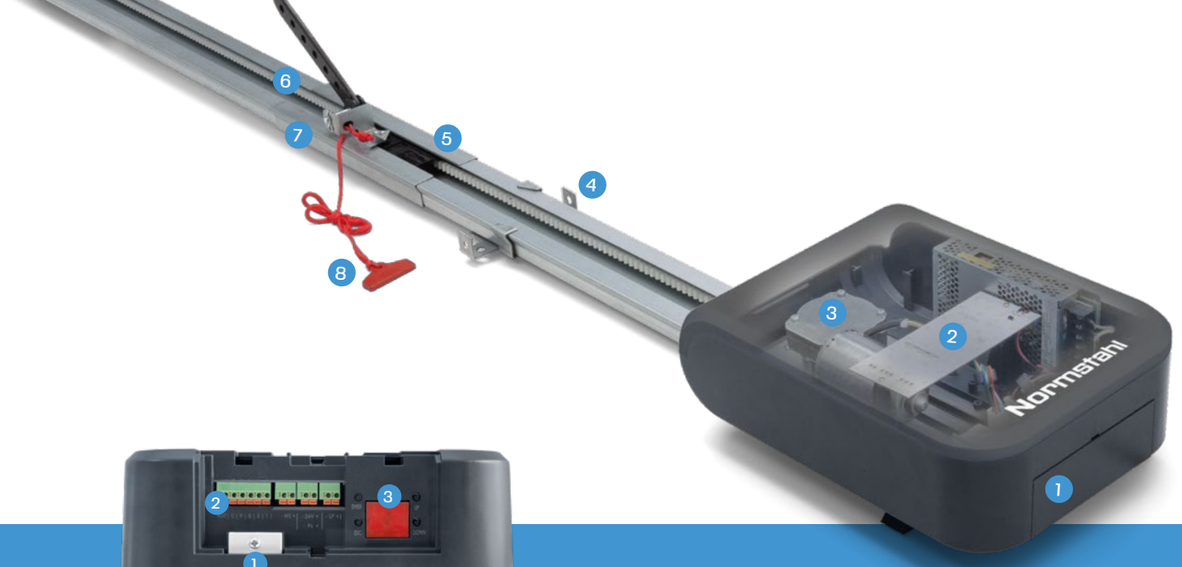
SPARK

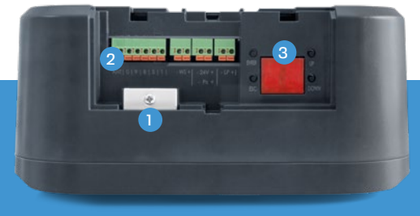
With the new Normstahl SPARK garage door opener you will discover a lot more than just a new design.

Thanks to the integrated Normstahl Connect and the Yale Home connectivity, the cumbersome handling of conventional transmitters is a thing of the past. No more worries when you're not at home, with SPARK you have full control over the security of your garage anytime, anywhere.

Our products enable you to set up or seamlessly integrate them into your smart home system: with garage door openers and accessories from Normstahl and smart locks and cameras from Yale.

Security and convenience for your home. Quite simply and all in your hand.





1 **Time-cutting installation:** one screw to release the top cover and access the interior to add optional accessories (emergency battery backup, ...)
2 **Quick connectors:** just press the notch with the tip of the screwdriver and insert the cable
3 2-digit display for **guided programming**

1 **Terminals protected** by a removable plastic cover
2 **Powerful LED light** (1,750 lms on 600N/3,500 lms on 1,000N)
3 **Battery kit** (optional)
4 **Rotatable bracket** for **quick installation** to the ceiling of the rail
5 **Track systems**
6 High tensile **strength belt** with **pre-tensioning spring**
7 Metal joints for **fast and reliable guide assembly**
8 **Emergency-cord release device** for **use in blackouts**

Technical data

- 600 N and 1,000 N tractive force
- Opening speed up to 22 cm/sec
- Belt drive
- Variable speed setting
- Dynamic force setting and encoder
- Stand-by max 0.6W (600N) / 0.8W (1,000 N)
- Bi-frequency receiver (433.92 and 868.35 MHz)
- Powerful LED light: 1,750 lms for 600 N motor and 3,500 lms for 1,000 N motor
- Transmitter storage memory card
- Customizable functions for each transmitter button
- Programmable in/output function (e.g. door closed signal)
- Configuration by display or by App via Bluetooth
- Multiple track-sets options options for up to 7.5 m
- Optional emergency battery

Highlights

ENERGY EFFICIENCY
With a standby power consumption of max. 0.6W (600N version) the Normstahl SPARK already complies with the Ecodesign Directive of 2025.

SMART HOME TECHNOLOGY
With the Normstahl Connect and the Yale Home apps (on selected models), you have full control of your garage door using your smartphone.

433
868

NO MORE RADIO INTERFERENCE
Thanks to the new RCB100E bi-frequency receiver module, you can conveniently chose 433 or 868 MHz transmitters.

SAFETY AND USABILITY
With many functions in it`s software and technology, the Normstahl SPARK offers a high level of security and user-friendliness at the same time.

Exclusive features

- Buzzer, for audible signaling of automation in motion
- Vacation mode, to disable radio commands of transmitters and radio keypad
- Battery voltage-level display to check the battery status
  Automation efficiency level:
  90% - 99% High efficiency level: excellent condition
  50% - 89% Medium efficiency level: performance begins to degrade
  10% - 49% Low efficiency level: performance is degraded, and maintenance is needed
- Imbalance level: thanks to this parameter, it is possible to check if the door is properly balanced or if the system detects imbalances when opening or closing
- Hold the door: if the system detects that the door is "falling" (spring breaking), the motor intervenes to stop/ slowdown the fall as much as possible
- Self-learning start-up mode

Smart Control

In the age of total connectivity, garage automations can be integrated in smart home eco-systems offering unprecedented levels of convenience and security.

- Local Bluetooth based connectivity, that can be used to speed-up installation & maintenance, and also operate the garage as an advanced and smart remote control
- Remote connectivity based on wifi or gsm, granting a full control and monitoring of your garage door, whenever you need it, wherever you are
- Integration in the Yale Home eco-system: your garage is fully interconnected in the Yale suite of access and security devices such as smart locks, security cameras, alarm system and much more.

With SPARK's smartphone apps it's possible to:

- Control and monitor the status of the garage from anywhere, ensuring safe and smooth access
- Get real-time notifications to keep track of access
- Simplify configuration and maintenance
- Provide fast and effective remote support

ENERGY SAVING < 0.6W*
The Normstahl SPARK consumes less in standby than regulatory requirements with an active display and an active Bluetooth network device, thanks to:

- Switching power supplies instead of traditional power supplies
- Control unit using state-of-the art technology that reduces energy losses
- More precise control of output voltage and ability to better adapt to input voltage fluctuations
- Low heat dissipation for longer component life and higher reliability over time

*< 0.6W Normstahl Spark 600N I < 0.8W Normstahl Spark 1000N

ACCESSORIES


Wallstation

Keypad

Transmitter

Photocell

WE GIVE YOU THE CHOICE!

TECHNICAL SPECS

Description	SPARK 600N	SPARK 1000N
Max. door area	12 m^2	17 m^2
Max. door weight	130 kg	200 kg
Electromechanical actuator	for sectional overhead doors	for sectional overhead doors
Max. Torque / Thrust	600 N	1000 N
Transmission system	with belt	with belt
Stroke control	encoder	encoder
Duty class	Intensive (tested up to 200.000 cycles)	Intensive (tested up to 200.000 cycles)
Intermittent operation	S2 = 60 min S3 = 75%	S2 = 60 min S3 = 75%
Cycles / hour*	70 cycles (T=25°C)	70 cycles (T=25°C)
Countinuous cycles*	100 cycles (T=25°C)	100 cycles (T=25°C)
Power supply	100-240 Vac 50/60 Hz	100-120 Vac, 200-240 Vac (by switch) 50/60Hz
Motor power supply	24 Vdc	24 Vdc
Power input	100 W	150 W
Opening speed	20 cm/s (adjustable 8-22 cm/s)	20 cm/s (adjustable 8-22 cm/s)
Closing speed	10 cm/s (adjustable 8-22 cm/s)	10 cm/s (adjustable 8-22 cm/s)
Power consumption (Stand by)	< 0.6 W Networked equipment	< 0.8 W Networked equipment
Operating temperature	-20°C / +50°C	-20°C / +50°C
Protection rating	IP 20	IP 20
Noise level	< 55 dB (operator only)	< 55 dB (operator only)

*indicative cycles considering a 2350 mm high door and factory settings (default opening speed of 20 cm/s and closing speed of 10 cm/s). With higher speeds, the number of cycles increases. A cycle is considered an opening maneuver followed by a closing maneuver.

Description	TS100X3 - TS150X2	TS100X4 - TS200X2
Track system length	3,300 mm	4,400 mm
Maximum carriage stroke	2,875 mm	3,975 mm
Maximum door height	2,350 mm	3,450 mm

Description	TS150X4	TS150X5
Track system length	6,600 mm	8,250 mm
Maximum carriage stroke	6,175 mm	7,825 mm
Maximum door height	5,650 mm	7,300 mm

MAIN FUNCTIONS OF THE SYSTEM

General Data	
Control panel	LCU60E built-in
Radio module	RCB100E (433.92 - 868.35 MHz selectable) (factory setting 868.35 MHz)
Bluetooth	built-in (all versions)
Yale Home	for SN versions
Accessory power supply	24 Vdc / 0.3 A max 2 s 24 Vdc / 0.15 A continuous
Inputs	
Opening control	■
Partial opening control	■ adjustable
Stop control	■
Step-by-step control	■
Outputs	
Courtesy light	1,750 lms (600N) 3,500 lms (1000N)
Flashing light	■
Electrically operated lock	■ alternative to flashing light
Not Gate-open but Door open	■ alternative to flashing light
Gate-open warning light with proportional blink rate	■ alternative to flashing light
Wall station	■
Accessories	
Wall station	■
Battery	■
Up-and-over door adapter	■
Emergency release	■
Programmable functions	
Stroke control	■
Configuration of programmable functions	via display and navigation keys via App via Wallstation
Opening and closing thrust	■ adjustable
Speed	■ adjustable
Soft Start / Soft Stop	■
Automatic re-closing time	■ adjustable
Pre-flashing time in opening and closing	■ adjustable
Integrated datalogging (counter and recent alarm history)	■
Monitoring of door unbalance	■
Monitoring the level of automation efficiency	■
Safety and protections functions	
Emergency stop	■
Safe closing (inversion)	■
Automatic force adjustment during movement	■
D-ODS Dynamic Obstacle detection system (automatic adjustment of the thresholds to reduce the possibility of false obstacle detection)	■
Execution methods for force detection testsin accordance with EN 13241-1	■

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