CSV-810 CONVEYOR

USER MANUAL

neopost

Products presented in this guide are conform to requirements of directives nbr 2006/42/EG and 2004/108/EG.

Neopost has implemented a program for the recycling of worn machines and machines at the end of their lifetime. Contribute in a responsible way to the environmental protection by consulting your retailer internet site, or by contacting him. He will inform you of the collection and treatment processes of these machines.

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Manufacturer Address

Neopost Industrie
ZI Tivoli
72800 Le Lude
France

www.neopost.com

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1 Introduction

In order to ensure both long service life of the CSV-810 and its components, as well as safe conditions of use, we recommend that you read carefully and comply with the operating instructions and safety notes. Always be aware of all warnings and notes that are affixed to or printed on the machine itself.

All persons who are to handle this machine must also be familiar with the operating manual. Store this manual in a safe place where it is easily accessible for future reference at any time.

1.1 Pictograms

General warnings

Warning of danger from electricity or electrical shock

Warning of possible fire

Information / Note indicating important information regarding the handling of the machine.

1.2 Notes for use of this manual

This manual is structured chronologically, and therefore ordered sequentially from the receipt of the machine packed up to its ready-for-use state.

If you are unfamiliar with the machine, it is best to read through the manual from beginning to end, where you can follow easy step by step instructions to allow you to fully and correctly operate the machine.

If you are already familiar with the CSV-810, it will make things easy if you to use this manual as a reference work.

2 Safety notes

Prior to initial operation, please carefully read the following instructions for the sake of both your own safety and the conveyor operating safety. Always observe any warnings and instructions directly attached to the device. Keep this manual available in order to be able to check back at any time.

Disregarding this manual may cause

- electric shock,
- injury by being drawn into the transport belt or transport rollers,
- damage to the equipment.

Setting up the machine

A safe, level position is necessary, when installing the machine.
Injuries may be caused by tipping, rolling away or falling.
The machine is to be protected from moisture.
The machine is not suitable for outdoor use.

Electrical Hazards

The power cable must only be connected to a socket with protective grounding contact! The protective effect must not be compromised by the use of an extension cable without a protective grounding conductor. All interruptions of the protective grounding conductor, within or outside of the machine, are prohibited.
The device is double pole fused! When fuse failure occurs, electrical machine parts can still carry voltage.
When making the connection to the mains power, be aware of the connection values on the rating plate.
Run the power cable in such a way, that no one can trip over it. Do not place any objects on the power cable.
When the machine is not in use over a long period of time, it should be disconnected from the power supply in order to avoid any damage in the event of a voltage surge.
Protect the device from moisture. When moisture enters the machine, there is a danger of electrical shock.
Never open the machine. For reasons of electrical safety, the machine should only be opened by authorized service personnel.

Operating safety

Never put your hands inside the machine when it is running!
There is a danger that injuries can occur through being pulled in and being crushed on the transport belt or the rotating rollers. In addition, keep long hair and parts of loose clothing away from the machine while it is in operation.
In order to prevent damage to the machine, only factory authorized accessory parts should be used.

Cleaning the machine

Prior to cleaning the machine, it should be disconnected from the power outlet. When cleaning the machine, do not use liquid or spray cleaners, but only a cloth dampened with water.
Additional information concerning the cleaning of the device can be found in chapter „Maintenance and support".

Machine inspections only by authorized Service Partners!

In the following cases, you should unplug the machine from the power outlet and contact an authorized service technician:

- When the power cable or its plug is worn or damaged.
- When water or other liquid has entered the device.
- When the device has been dropped/knocked over or the housing is damaged.
- When there is a significant change in the performance of the machine.

Spare parts

When repair work is carried out, only original spare parts or spare parts approved by the manufacturer may be used.

Repairs

Do not disassemble the machine any further than it is described in this manual. The opening of the machine by unauthorized personnel is not permitted. Repairs may only be carried out by authorized service personnel.

Modification is not permitted

For safety reasons, your own reworking and modifications to the machine are not permitted.

Please contact your authorized Neopost dealer or service partner, for all questions relating to service and repair. In this way, you ensure the operational safety of your machine.

2.1 Location of the conveyor

Be aware when installing the machine that it must stand on a smooth and level surface that is larger than the conveyor.

When placing the machine, make sure that there is enough clearance around it, so that you can access all connections easily.

The floor space for the conveyor must be sufficiently stable. The tipping over or falling of the machine can lead to injuries, as well as damage to the machine.

When selecting the installation or storage location for the conveyor, keep in mind that it must be protected from strong temperature and humidity changes, direct sunlight and excessive heat.

The conveyor must not be subject to vibrations or shocks.

Install the conveyor near a power outlet, so that the power cable can be disconnected trouble-free at all times.

2.2 Disposal

The conveyor may not be disposed of in the conventional manner of household waste. Please dispose the conveyor in accordance with the regulations in force.

3 Scope of delivery and assembly

3.1 Scope of delivery

- 1x conveyor Neopost CSV-810
- 1x open 5-pin emergency stop connection cable
- 1 x emergency stop connection cable for Neopost printers
- 2 x emergency stop strapping plug type 'In/Extern'
- 1 x emergency stop strapping plug type ‘Out’
- 1 x power cable
- 1 x grounding cable flat/flat
- 1 x grounding cable eye/flat
- 1 x CD-ROM with user manuals

3.2 Delivery

The Neopost CSV-810 is delivered in appropriate packaging so that it reaches its destination without damage via a regular mode of transport.

Transportation and storage should be carried out in suitable condition. That means an ambient temperature between +10°C and +31°C at 20-80% relative humidity (non-condensing). Conditions outside of these ranges may harm the machine. Damages from wrong transportation and storage conditions may not be visible on the packaging.

Transportation locks

The Neopost CSV-810 is fixed to the transport pallet by transportation locks, which are mounted to the four feet. Loosen these locks and roll the conveyor off the pallet cautiously. Do not lift the conveyor by hand.

If the conveyor has to be shipped again, please store the transportation locks and the packaging. In case the packaging is no longer needed, please dispose it in an environmentally suitable manner.

4 Description of device

4.1 Function description

The Neopost CSV-810 is a conveyor belt for envelopes or magazines. The paper transport works continuously and with great smoothness, with a maximum speed of 2.0 m/s (393.7 feet/minute).

You can mount different devices onto the conveyor. For example an inkjet printer, labeler, IR and UV dryer, barcode reader or cameras.

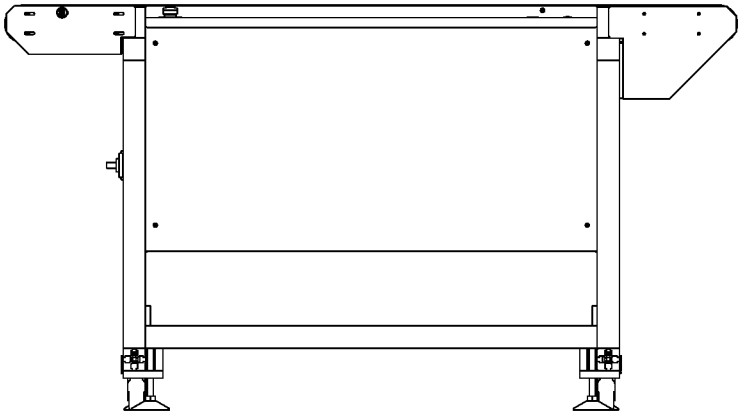


Figure 1: front view

4.2 Device overview

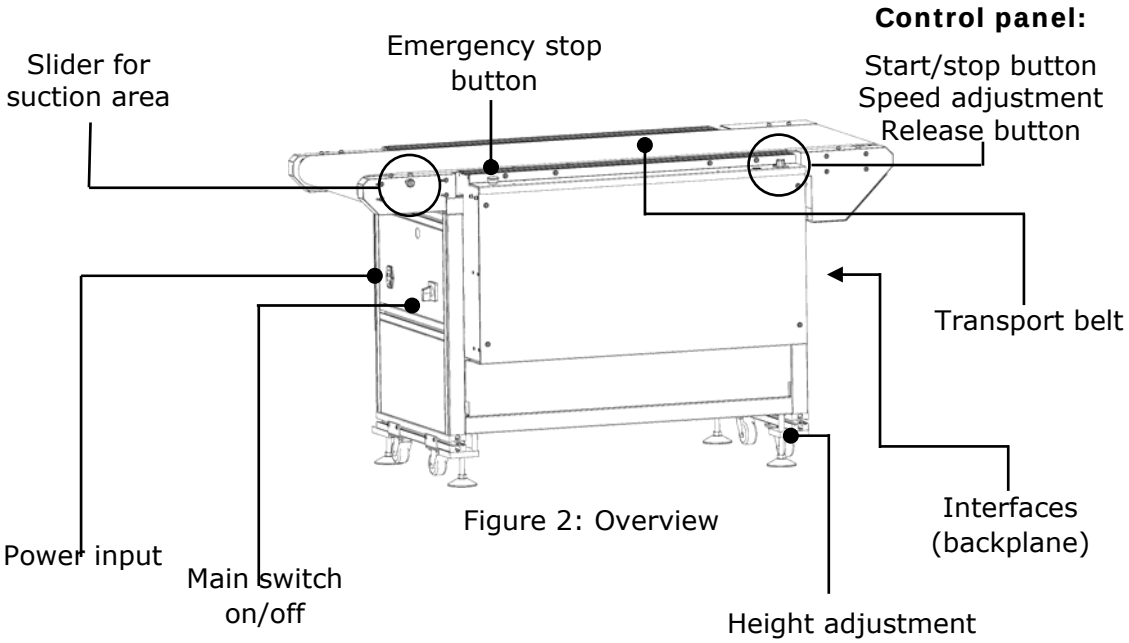


Figure 2: Overview

4.3 Interfaces

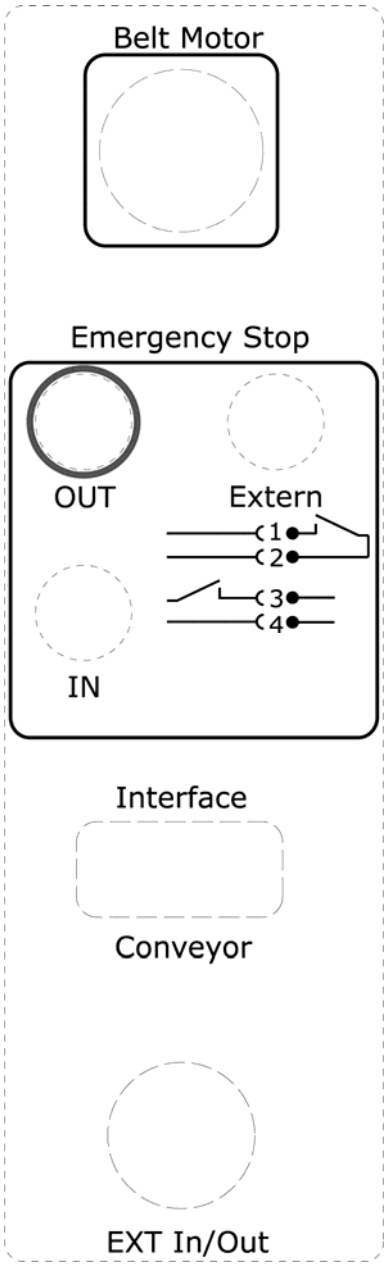


Figure 3: Overview interfaces

Belt Motor

This interface has no function.

Emergency Stop

Interface for the emergency stop connection (see chapter 4.4 Emergency stop connection, on page 16).

Interface Conveyor

With this interface the main functions of the conveyor (Start, Stop, Speed) can be controlled by a Neopost print system.

Connection via standard RS 232 PC cable (crossed, D-Sub-connector, 9 Pin female-female).

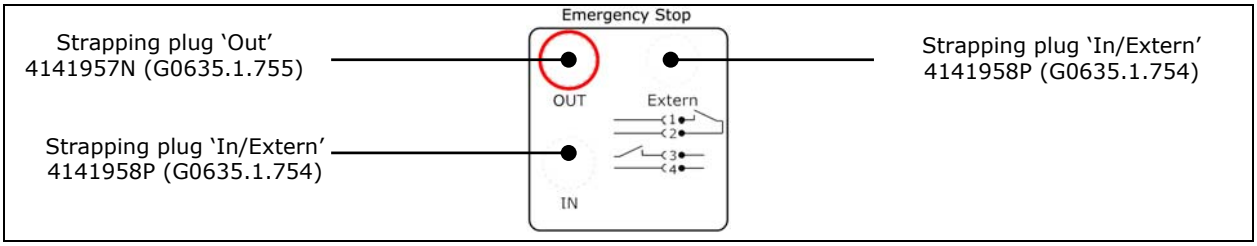
EXT In/Out

With this interface the transport functions (Start, Stop) of the conveyor can be controlled by an external signal. See chapter 10.1 Pin assignment EXT In/Out, on page 34 for details.

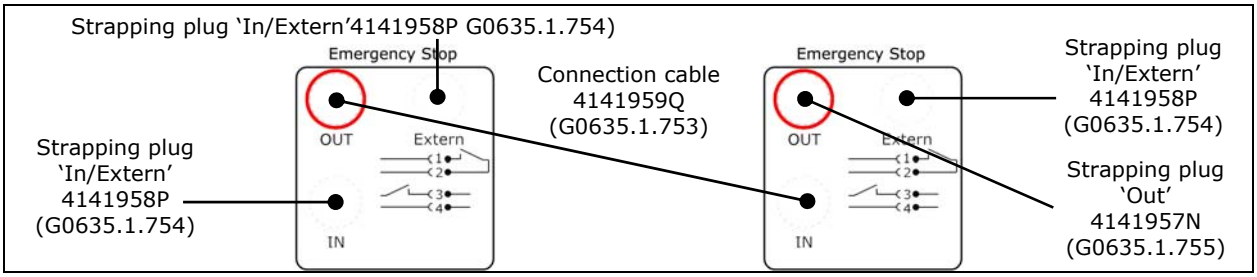
4.4 Emergency stop connection

If the Neopost CSV-810 conveyor is used in connection with a Neopost printing system, it is possible to connect the emergency stop functions of both devices. In case of an emergency stop all devices will turn off simultaniously. In the following the different connection scenarios are descriped.

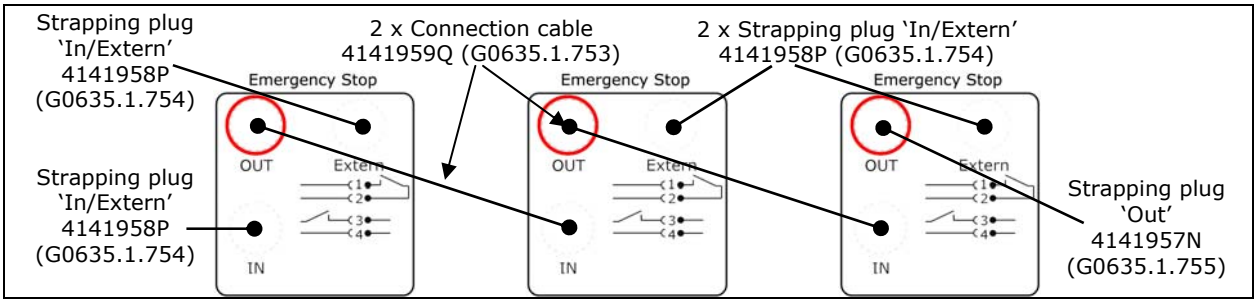
4.4.1 Stand-alone operation



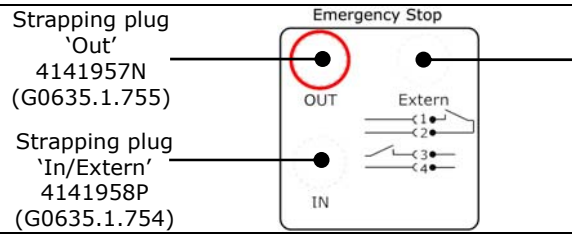
4.4.2 Operation with one additional Neopost device



4.4.3 Operation with several additional Neopost devices



4.4.4 Operation with other, non-Neopost devices



Open 5-pin connection cable
9200561S (G0635.1.756)
The devices works only when the input to pin 1 and pin 2 are closed. The input signal must be potential-free (dry contact only, no voltage). In case of an emergency stop, the device will close the relay contact 3 and 4, to shut down externally connected devices.

The print system should always be the first device in the emergency connection chain.

4.4.5 How to activate the emergency stop function

Emergency stop function

If an unexpected error occurs, you can stop the conveyor by hitting the red emergency stop button. All devices connected within the emergency loop will instantly stop and the green release button will start to flash fast.

If there is no emergency stop loop connection (Stand-alone operation), only the affected device will stop.

The emergency stop function does <u>not</u> disconnect the device from the mains power!
Do not open or try to repair the device while in emergency stop mode. Unplug the device from the wall outlet before performing any service.

Restart the device

To restart the device, unlock the red emergency button by turning it clockwise and then press the green emergency release button.
Now the device can be started normally again.

4.5 Controls

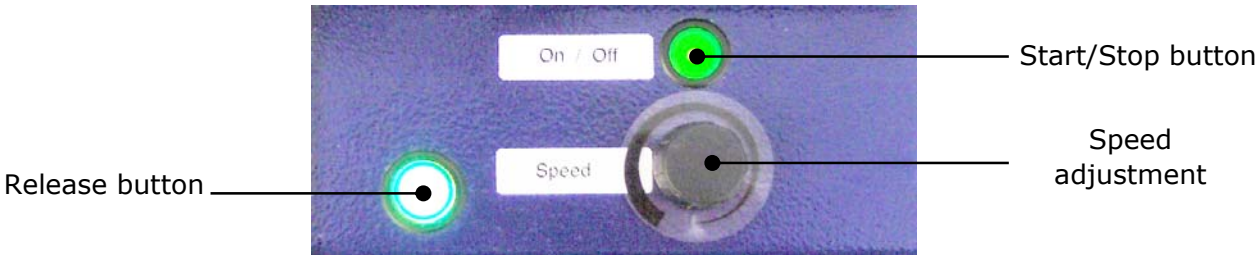


Figure 4: Control panel

5 Initial start-up of the device

5.1 Connection setup

The Neopost CSV-810 is shipped pre-assembled and can be easily positioned due to its mounted transport wheels.

Please ensure that the device stands in a secure and level position. Please fix the pedestals by locking the nuts.

	The Neopost CSV-810 may only be used with mounted and reeled-out pedestals. The height level of the conveyor is adjustable in a range between 810 mm – 915 mm (31.9 – 36.0”).

Be aware that the products are fed central and parallel to the conveyor.

It is recommended that the user works on the side of the machine, where the control panel is placed (see Figure in section 4.2 Device overview, on page 14). The flow of material is from left to right.

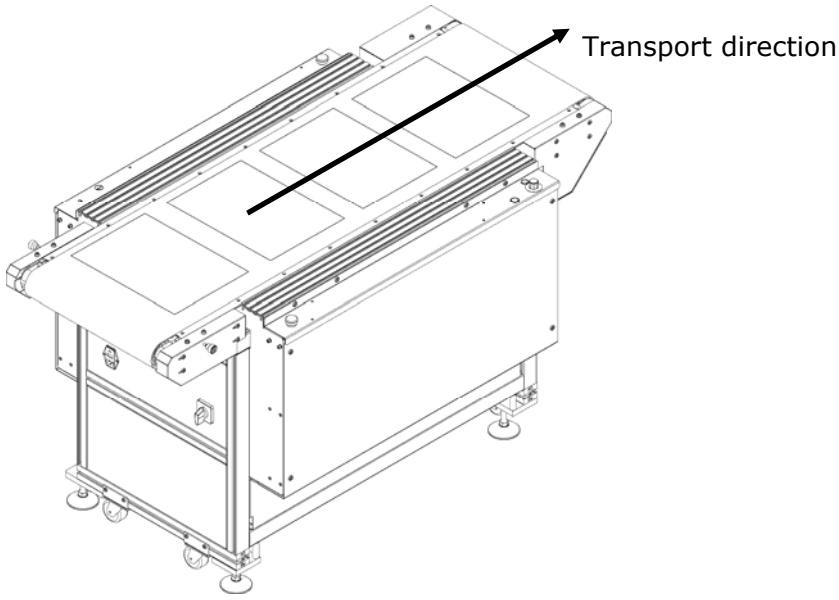


Figure 5: Transport direction

	Please assure that the emergency stop connections are set up according to your operation mode (see chapter 4.4 Emergency stop connection, on page 16).

Power cable

Attention!

The device may only be used in connection to power outlets with integrated protective conductor (earthing)!

Make sure that the on/off switch is set to off. Plug the power cable into the power input of the CSV-810. Connect the cable to the power outlet.

5.2 How to power-on the device

Before turning the device on, please ensure that the emergency stop button (see Figure in section 4.2 Device overview, on page 14) is not activated. Check the set transport speed and reduce it if necessary.

Please turn on the device using the on/off switch (see Figure in section 4.2 Device overview, on page 14). The vacuum suction will start and the green release button will start to flash. The transport can not be activated until this button is pressed once to release the conveyor.

After the conveyor is released, the transport movement can be started by pressing the start/stop button. Please check the belt speed and adjust it if needed.

Before starting the transport, please ensure that there are no leftover objects on or behind the conveyor belt. Please check, that no mounted accessory device blocks the transport movement.

5.3 Operating modes

5.3.1 Stand-alone conveyor

If you use the Neopost CSV-810 as standalone conveyor, no cable connections between the involved devices have to be set up. After turning on the conveyor, adjust the belt speed as needed.

For this operation mode the three separate strapping plugs have to be connected to the device (2 x 'In/Extern', 1 x 'Out'). Please see chapter 4.4.1 Stand-alone operation, on page 16 for further information.

5.3.2 Conveyor in connection with printing system or dryer

The Neopost CSV-810 conveyor can be used in combination with a Neopost printing system and appropriate UV- or IR-dryers. In this case the conveyor has to be connected with the printer. Transport functions like start, stop or the belt speed are henceforward controlled by the printing system.

For further information regarding the possible functionalities and stages of expansion for your device, please contact your local authorized Neopost dealer. Please see section 8 Accessories, on page 26 for additional accessories.

6 Settings

The Neopost CSV-810 has an integrated vacuum suction to ensure a proper transport of lightweight and bowed materials.

To enable a smooth transport, the product position and the force of the vacuum suction have to be adjusted by the user to the requirements of the application.

The integrated suction can be focused on the central area of the conveyor belt, by the use of the slider (Slider for suction area, see Figure 6). Due to this concentration, the suctions force increases and small or lightweight products stick to the belt surface (see Figure 6).

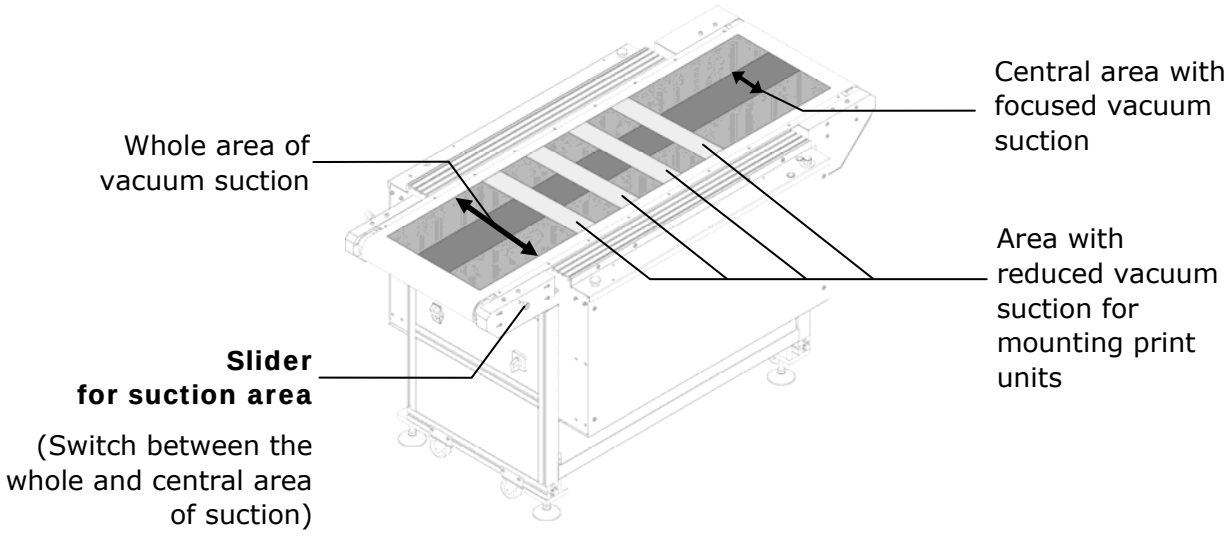


Figure 6: Area of vacuum suction (schematical)

The products should be fed centered and parallel to the conveyor. The speed and the height of upstream and downstream devices have to be adapted to the Neopost CSV-810, to avoid crashes or distortions of the products.

7 Service

7.1 Maintenance and support

Cleaning

Before the cleaning of the CSV-810, it has to be disconnected from the power outlet.

When cleaning the metal parts of the machine, do not use liquid or spray cleaners, but only a cloth dampened with water.

Paper dust or inks stains on the transport belts can effortlessly be removed with standard glass cleaning agent. Use a damped cloth for cleaning. You can also clean the metal plate underneath the transport belt by cautiously lifting the belt on one side and wiping the dust from the metal plate using a damp cloth.

If there are leftover paper snippets caught in the belt gaps, remove them using forceps.

7.2 Troubleshooting

7.2.1 The conveyor transport doesn't work

Condition	Problem	Solution
The transport doesn't work.	The power is cut, or the release button is not activated.	Check whether the green release button is flashing or off. Press the button to release the emergency stop function. Check the correct connection of the power cable. Check the fuses of the device.

Fuse exchange

Attention!
Disconnect the device from the power outlet before exchanging the fuses.

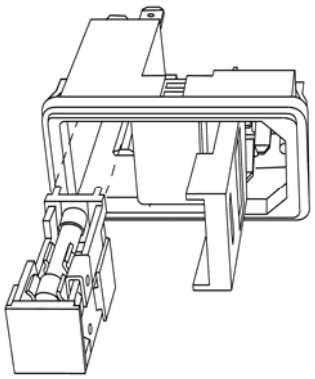


Figure 1: Exchange of the fuses

Data

Type	Glass tube microfuse
Dimensions	5 x 20 mm
Voltage	250 V
	3.15 A (T)
Amount	2

Use a flat screwdriver to swing open the fuse holder cover. Take the holder out of the power input module. Both fuses need to be intact. Change the blown fuses and insert the holder again.

7.2.2 The products slip unjustified onto the conveyor

Condition	Problem	Solution
The products slip unjustified onto the conveyor. The products aren't aligned/parallel.	The material transfer between the upstream device and the conveyor belt is not coordinated.	Be aware that the products are fed centered and parallel to the conveyor. Adjust the area of suction to the used paper format. Therefore use the slider for the suction area to focus the vacuum on the middle of the belt. Ensure that the height of the conveyor is a little bit lower than that of the upstream and feeding device. Reduce the transport speed of the conveyor and adjust the speed according to that of the upstream device.

7.3 Technical Support

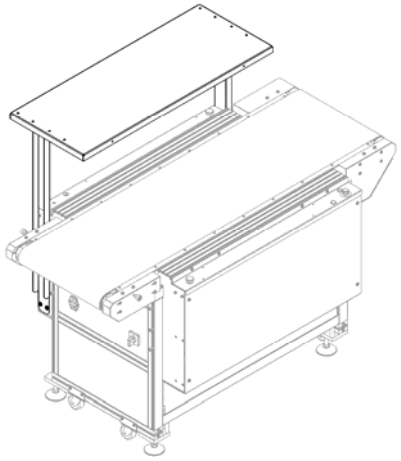
If you experience technical issues or problems that aren't mentioned or solved in this User Manual, please contact your local authorized Neopost dealer.

Please prepare the following information about your device:

- Exact name of the device (label plate).
- Serial number and year of manufacture (label plate).
- Occasionally: The installed firmware version of the device (will be displayed during the machine initialization, after switching the device on).
- Occasionally: Information about PC software used in connection with the device.
- General information about peripheral devices (conveyors, dryers, feeders, etc.).
- A detailed description of all failures and error messages.

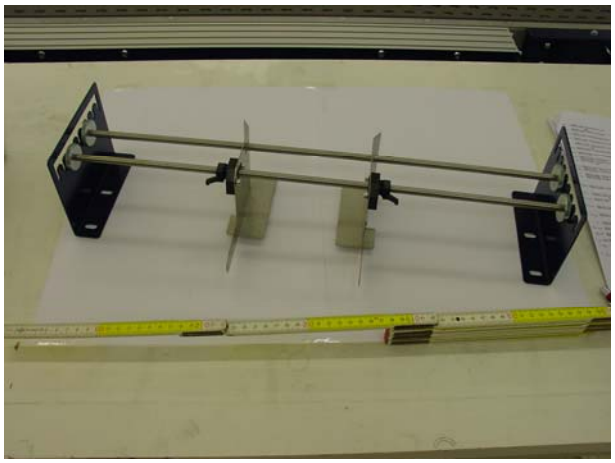
8 Accessories

8.1 Control unit shelf



Name	Control unit shelf Neopost CSV-810 / AS-Orbit Base
Part number	9200277W (R0619.5.901)
Application	Shelf that can be mounted behind the Neopost CSV-810 / AS-Orbit Base.
Dimensions L x W (shelf surface)	980 x 380 mm / 38.6 x 15.0”
Height (with base)	1120 – 1225 mm / 44.1 – 48.2”

8.2 Paper guide kit Neopost CSV-810 / AS-Orbit Base / AS-2060

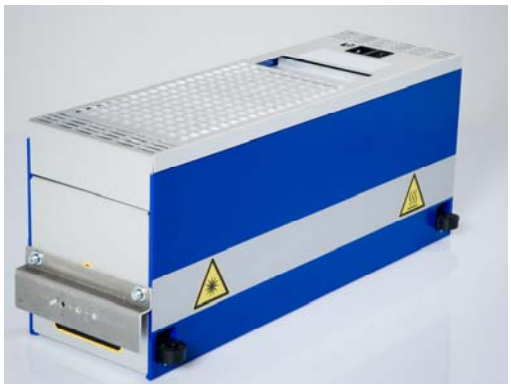


Name	Paper guide kit Neopost CSV-810 / AS-Orbit Base / AS-2060
Part number	4136432H (R0619.2.001)
Application	The kit can be mounted on a Neopost CSV-810, AS-Orbit Base or AS-2060 system in front of the print units. It ensures that all products are fed straight and parallel.

8.3 Keyboard support kit

Name	Keyboard support kit
Part number	4136430F (R0619.5.953)
Application	Can be mounted to the Neopost CSV-810 / AS-Orbit Base as support for a PC keyboard.

8.4 Infrared dryer IR-2,7B



Name	Infrared dryer IR-2,7B
Part number	4134866B (KH-IR 2,7-B)
Application	Used in combination with the Neopost CSV-810 / AS-Orbit Base / CS-800HR. Improves and supports the drying of the ink on glossy material. Can be connected to a regular 220V/16A power outlet.
Scope of delivery	Dryer Power cable Strapping plug
Recommended distance to substrate	30 – 40 mm / 1.2 – 1.6”
Covered drying swath	130 mm / 5.1”
Dimensions L x W x H	500 x 156 x 212 mm / 16.7 x 6.1 x 8.3”
Weight	13 kg / 28.7 lbs
Power supply	240 VAC at 50 Hz, 16 A
Rated input max.	2,800 W
Heating power	3 x 900 W

8.4.1 Support for IR-Dryer Neopost CSV-810 / AS-Orbit Base

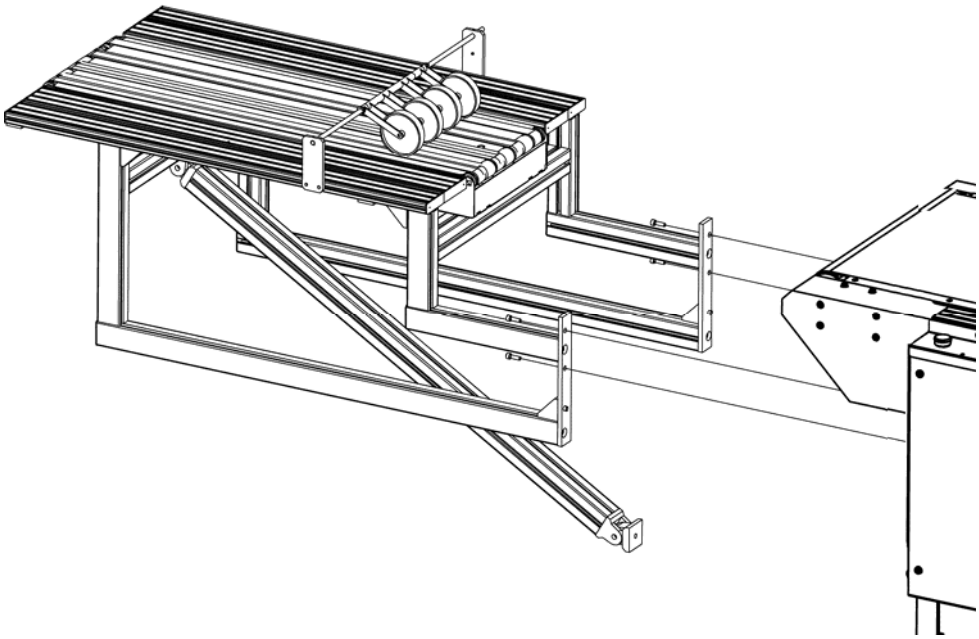
Name	Support for IR-Dryer IR-2,7B on CSV-810 / AS-Orbit Base
Part number	9200172M (R0625.2.900)
Application	Mounting kit for fixing the Dryer IR-2,7B onto the Neopost CSV-810 / AS-Orbit Base.

8.5 Accessory devices

8.5.1 Neopost CS-800 conveyor

Name	Neopost CS-800 conveyor
Part number	Please contact your authorized Neopost dealer
Application	Conveyor with continuous and shingle mode. Can be put on a table or installed on a special mounting.
Weight	10 kg / 22.05 lbs
Transport speed	0,2–0,9 m/s / 39.4–177.2 feet/minute continuously variable
Dimensions L x W x H	860 x 286 x 86 mm / 33.9 x 11.3 x 3.4”

8.5.1.1 Neopost CS-800/CS-800HR support frame



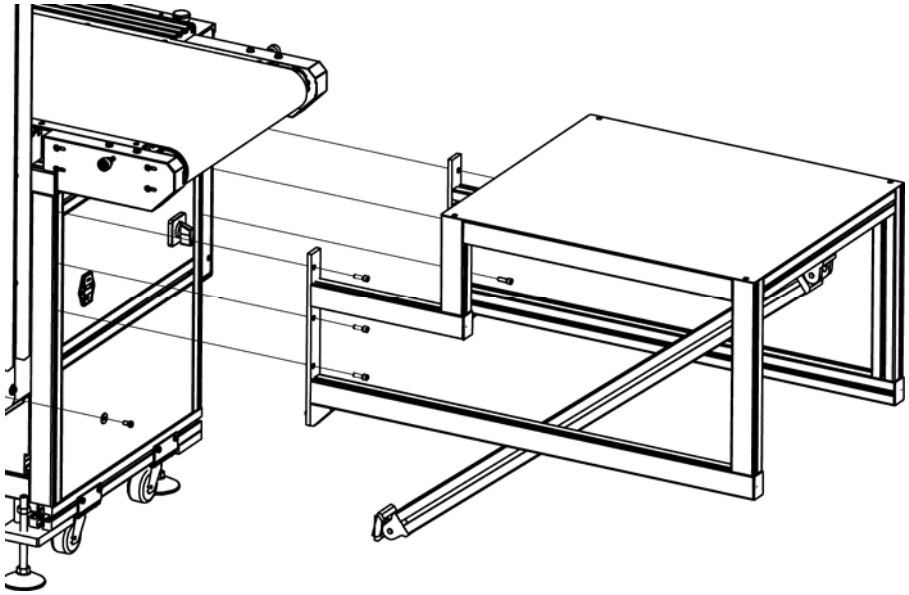
Name	Neopost CS-800/CS-800HR support frame for the Neopost Base 2.0 / AS-OrbitB / AS-2060
Part number	9200197N (R0620.5.915)
Application	The support frame can be mounted aside the Neopost CSV-810 / AS-Orbit Base / AS-2060. Due to the attached Neopost CS-800/CS-800HR conveyor the transport range can be extended.

8.5.2 Neopost FD-13

Name	Neopost FD-13
Part number	Please contact your authorized Neopost dealer

Application	Compact friction feeder for material up to 13” paper height
Max. feeding speed	2.0 m/s / 394 feet/minute
Min. material size W x H	82 x 88 mm / 3.2 x 3.5”
Max. material size W x H	420 x 330 mm / 16.5 x 13.0”
Max. material thickness	6.35 mm / 0.25” respectively 12.7 mm / 0.50”
Max. staple height	450 mm / 17.72” (respectively 1 kg / 2.20 lbs weight)
Dimensions L x W x H	500 x 355 x 550 mm / 19.7 x 14.0 x 21.7”
Weight	20 kg / 44.1 lbs
Power supply	100 – 240 VAC at 50 ~ 60 Hz

8.5.2.1 Support frame Neopost FD-13/FD-15 Feeder



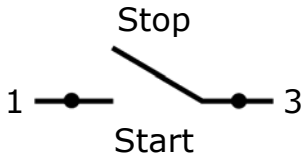
Name	Support frame Neopost FD-13/FD-15 Feeder
Part number	4136399Y (R0620.5.914)
Application	Support frame for mounting the Neopost FD-13/FD-15 Feeder aside the Neopost CSV-810 / AS-Orbit Base / AS-2060.

9 Technical Specifications

Transport speed	0.15 – 2.0 m/s / 29.5 - 393.7 feet/minute
Material format min. (width x height) (width = in material transport direction)	54 x 50 mm / 2.1 x 2.0”
Material format max. (width x height) (width = in material transport direction)	Not determined by conveyor x 420 mm / Not determined by conveyor x 16.5”
Material thickness min.	Not determined by conveyor, recommended value 0,1 mm / 0.004”
Material thickness max.	Depends on the application
Product weight max.	1 kg / 2.2 lbs per product (recommended)
Shingle mode	No
UV Dryer applicable	Yes
IR Dryer applicable	Yes
Interfaces	EXT In/Out, Serial interface, emergency stop connection
Dimensions L x W x H	1.476 x 758 x (810 – 915) mm / 58.1 x 29.8 x (31.9 – 36.0)”
Weight	131 kg / 288.8 lbs
Power supply	100 – 240 VAC at 50 ~ 60 Hz
Temperature conditions	10 - 31°C / 50.0 - 87.8°F 20 - 80% relative humidity (non-condensing)
Certifications	CE, UL, cUL, RoHS

10 Appendix

10.1 Pin assignment EXT In/Out

Interface	Nr.	Assignment	Switch
EXT In/out	1	Switch contact IN (12V)	
	2	Switch contact OUT	
	3	Switch contact IN (GND)	
	4	Switch contact OUT	

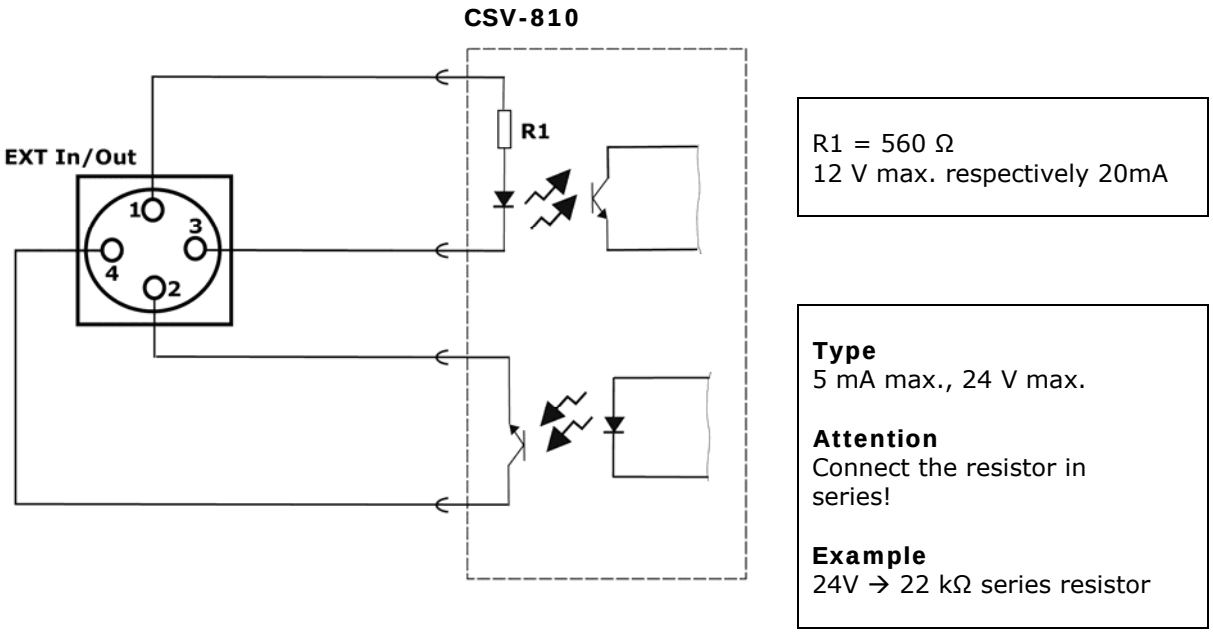
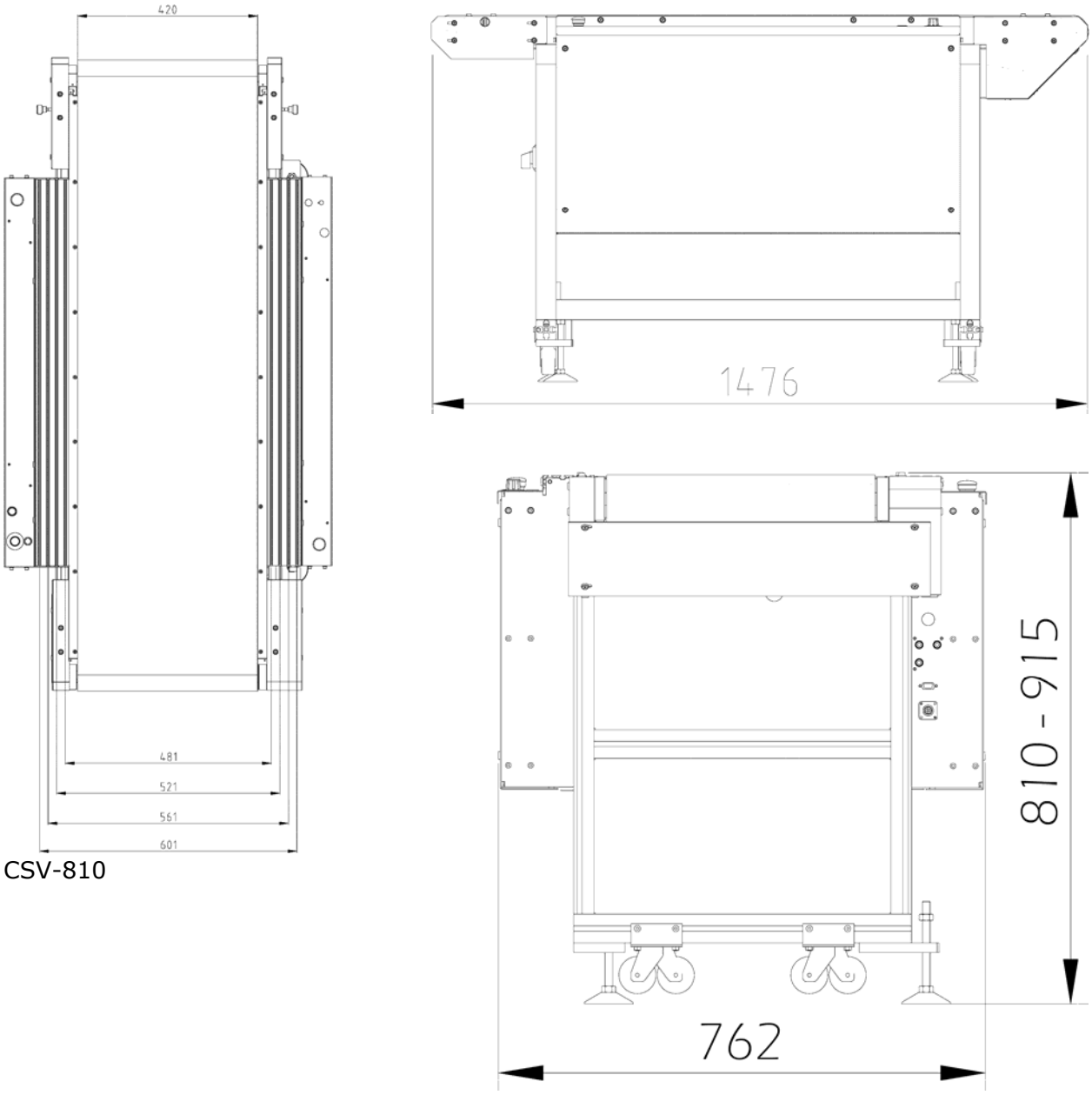


Figure 7: Pin assignment EXT In/Out

10.2 Dimensions of the Neopost CSV-810



CSV-810

Figure 8: Dimensions of the Neopost CSV-810 in mm

10.3 EC declaration of conformity

CE

Products presented in this guide conform to requirements of the following directives:

EC-directives

EC directive	**Year / Register No.**
Machinery directive	2006/42/EG
EMC directive	2004/108/EG

Standards used

Technical specification	**Standard**
Safety of machines	DIN EN ISO 12100 1:2004-04
Protective device including safe distance	DIN EN ISO 13857:2008
Noise emission	DIN EN ISO 11200:2009
Safety of electrical office machines	EN 60950-1:2006-11
Noise immunity	DIN EN 55024 :2003-10
Perturbing radiation	DIN EN 55022:2008-07
Industrial interference resistance	DIN EN 61000-6-2:2006-03
Interference resistance against:	
Discharges of static electricity	DIN EN 61000-4-2:2009-12
High-frequency electromagnetic fields	DIN EN 61000-4-3:2008-06
Fast transient electrical disturbances	DIN EN 61000-4-4:2005-07
Surges	DIN EN 61000-4-5:2007-06
Conducted disturbances, induced by high-frequency fields	DIN EN 61000-4-6:2009-12
Magnetic fields with energy frequencies	DIN EN 61000-4-8:2009-10
Short time disruptions, Voltage drops, fluctuations	DIN EN 61000-4-11:2005-02
Limit values for harmonic currents	DIN EN 61000-3-2:2006-10
Limit of voltage changes, -fluctuations and flicker in public low voltage mains	DIN EN 61000-3-3:2009-06

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