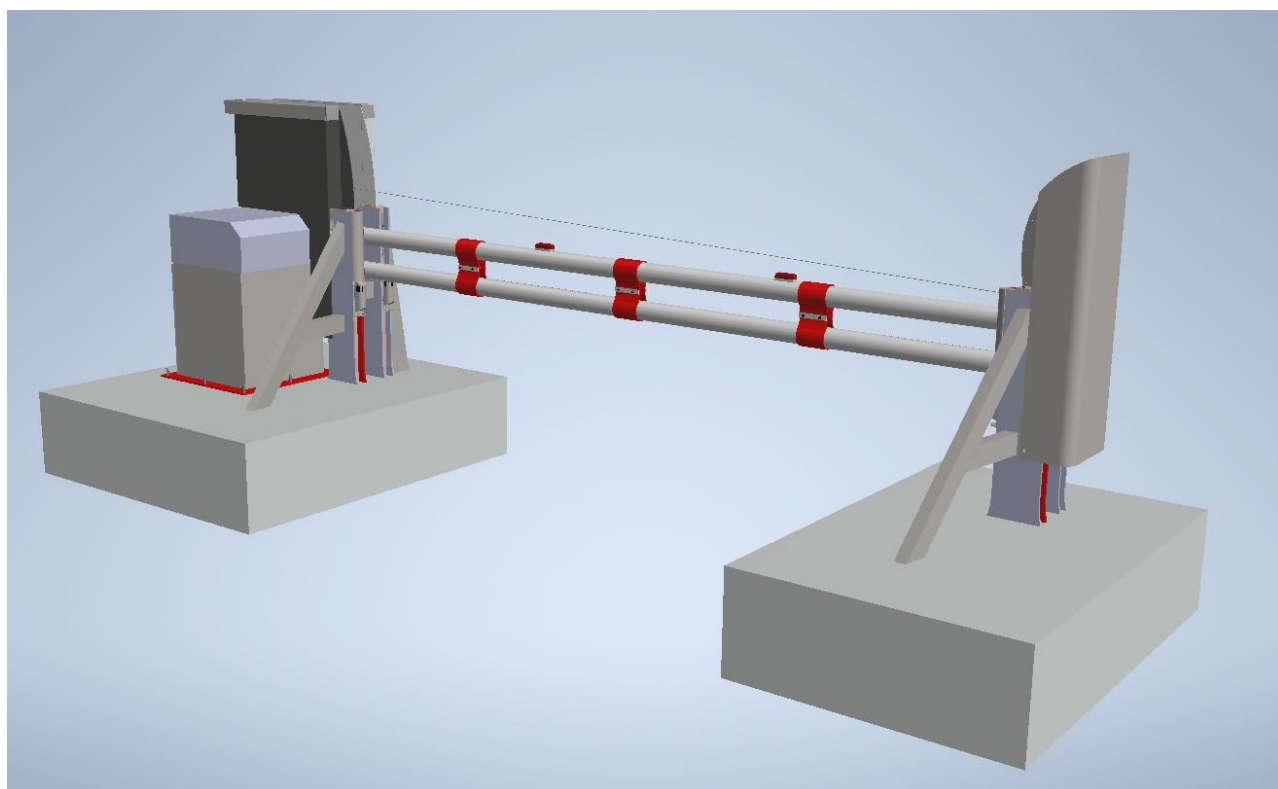




User manual

Heras Crash Tested Barrier 94x Series



Please read this original user manual before using this barrier for the first time. Act in accordance with the manual and keep it in a safe place for later use or for the following owner.



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FOREWORD

This manual provides information on the operation and maintenance of the 94x range of barriers. A separate manual is provided for installation. Although every effort has been made to ensure that the information contained within this manual is correct at the time of issue, no responsibility is accepted for any loss or damage arising from incorrect information.

This manual forms no part whatsoever of any contract or agreement between Heras and others. In no circumstances will Heras be responsible or liable for any costs, damage or injury whatsoever arising from the use of this Manual.

Should the barrier be tampered with and/or any non-approved equipment be fitted to the barrier then any warranty will be considered void.

The Copyright of this Manual remains the property of Heras at all times. This Manual may not be reproduced by any means without prior written permission from Heras.



1 GENERAL

1.1 MANUFACTURER / SUPPLIER

Manufacturer: Heras UK
Herons Way
DN4 8WA Doncaster
Tel.: +44(0) 1302 364 551
www.heras.com

Technical construction file: Manager Heras B.V. PD Department

1.2 SERVICE / MAINTENANCE

In the event of problems, failures or questions telephone contacts are as follows:

Heras Netherlands	Telephone	+31(0) 499 551 255
Heras Germany	Telephone	+49 (0)1805 437277
Heras UK	Telephone	+44(0) 1302 364 551
Heras France	Telephone	+33(0) 3 88 067 000
Heras Norway	Telephone	+47(-) 22 900 555
Heras Sweden	Telephone	+46(0) 77 1506050

1.3 DEFINITIONS USER / OPERATOR / ENGINEER

User: Anyone using the barrier.

Operator: A user who is familiar with all safety aspects dealt with in this manual. Operators are not allowed to carry out any installation work on the barrier unless explicitly specified.

Engineer: The engineer is a Heras fitter (or an engineer employed by the customer who has been given explicit permission in writing from Heras) who is qualified to perform technical interventions on the barrier.

1.4 PRESCIBED USE / APPLICATION

Only the correct installation and maintenance by an authorized/qualified company or person in agreement with the user manual, logbook, check lists and maintenance lists can ensure the safe operation of the system.



A qualified person is, according to EN 12635, a person who has the required training, qualified knowledge and practical experience required to install, test and maintain a barrier system correctly and safely.

1.5 CONFORMITY

The installation complies with the following EU Directives/ regulations:

EU	2006/42/	EC	Machinerichtlijn
EU	2014/30	EU	EMC richtlijn (elektromagnetische compatibiliteit)
EU	305/2011	EC	Verordening bouwproducten (CPR)

UK	Supply of Machinery (Safety) Regulations 2008		
UK	Electromagnetic Compatibility Regulations 2016		
UK	Construction Products Regulations 2013		

The design and production have been executed compliant with the applicable product standard EN 13241 and EN 12453.

A Declaration of Performance (DoP) and Declaration of Conformity (DoC) are obligatory for this product. The DoP and DoC are included in Appendix A.

The CE or UKCA mark is located on the cabinet of the barrier.

1.6 DELIVERY

The barrier, drive and control unit must be installed by a fitter or an engineer who also connects and programs any accessories. The barrier control unit is adjusted to the options/accessories agreed with the user. The relevant options are laid down during hand-over.

Optional accessories can be installed afterwards, simply contact the supplier. Barriers are always delivered fully tested.

1.7 ELECTRICAL CONNECTIONS

Electrical connections must be made compliant with the supplied wiring diagram. The system must be correctly earthed (Protective grounding in accordance with DIN VDE).

Because EMC-related suppression components can leak current to the earth cable, it is advisable that you do not protect the control unit with a Residual Current Device. When switching on the system, a high starting current can be generated due to the charging of the intermediate circuit.

If after measurement during commissioning it appears that the leakage current exceeds the permitted 3.5 mA, an additional grounding, in accordance with EN 60335-1 and IEC 30364-5-54, must be provided. Measurement is made according to EN 60335-2-103. Consult your installer for this.

Take into account good shielding, for example an automatic circuit breaker 16A B characteristic.



Ensure that the feeder cables are not carrying power during commissioning.

1.8 DELIVERY OF BARRIER

After installation and commissioning, by a Heras technician or a technician trained by Heras, the cover of the barrier must be closed and locked. This is done to prevent unauthorised access.

2 SAFETY

2.1 EXPLANATION OF THE SYMBOLS



Caution!

To prevent personal injury, observe the safety instructions below.



Note!

To prevent material damage, observe the safety instruction below.



Information: Followed by further information or a reference to other documents.



Warning: Risk of limbs getting crushed.

2.2 GENERAL SAFETY INSTRUCTIONS



- The operator must read the entire user manual before the barrier is used for the first time. The instructions stated in the user manual must be observed and complied with. All other forms of use can cause unexpected hazards and are forbidden.
- Applying a third-party drive unit, motor and/or safety devices may affect safety and will invalidate the CE mark.
- The barrier must only be put into use if all safety facilities are in place and connected, and work properly.
- All faults which might present a source of danger to the user or to third persons must be eliminated immediately.
- All warnings and safety notices on the equipment must be in place and clearly legible at all times.
- It is not permitted to mount items to the barrier arm and / or housing other than as prescribed by Heras. Think of traffic and other signs and such. This can negatively affect the safe operation of the barrier.
- All alterations or extensions to the barrier must be carried out by qualified personnel using parts which the manufacturer has defined as suitable for such alterations or extensions. Any failure to comply with these instructions will be considered as non-compliant behavior and will invalidate the manufacturer's guarantee, as a result of which the risk entirely transfers to the user.
- Improper usage or servicing or ignoring the operating instructions can be a source of danger for persons, and/or result in material damage.
- If the meaning of any part of these installation and operating instructions is not clear, then please contact your supplier before you use the equipment.
- This manual must always be available at the location of use of the barrier. This manual must be thoroughly read and applied by all persons responsible for the operation, maintenance and repair of the barrier.

2.3 SAFETY PROVISIONS

- To protect people and goods from injury or damage, the barrier is fitted with safety provisions including safety loops and/or a laser scanner. These serve as emergency provisions that immediately stop (and reverse) the movement of the barrier. It is forbidden to use these provisions to stop the barrier normally.
- For a barrier with hold-to-run control, the above-mentioned safety provisions are not necessary and will therefore not be standard provisions. With this type of operation, the barrier stops immediately as soon as the switch is released.

2.4 INTENDED USE

Giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or residential premises.

2.5 SAFETY DURING USE



Children or people with a disability must not operate the barrier. Parents must supervise their children to prevent them playing with the barrier.

➔ PARENTS ARE RESPONSIBLE FOR THEIR CHILDREN ➔



- Keep a safe distance from the moving barrier. Warning icons to this effect have been installed in various locations

- Only pass through the barrier when it is completely open.
- The barrier must not be opened in windy conditions; wind force >12 Beaufort. The barrier arm can swing in a way that can result in damage to the construction.



- When hold-to-run-control is employed, the barrier must only be operated if it can be seen completely, directly and in real-time. Operation must be via a permanently installed operating device, for instance a key switch or push button. This operating device must be located in such a way that the operator's position is safe. The barrier must stop immediately when the button or key is released. Other operating devices are not allowed.
- The barrier must be able to move freely without obstacles in the passage and entire area where the barrier can move. Do not insert objects above or under the barrier arm that could block the barrier arm.
- The barrier arm must always be free from snow, ice or dirt that might affect its behaviour. In the event of frost, check this before commissioning the bar-

rier. If the barrier arm is blocked, the barrier will not move at all or will not complete its movement. Irregularities can damage the drive and / or transmission.

- Climbing the barrier is strictly forbidden as people climbing the barrier could get hurt if the barrier is started unexpectedly.
- Do not place any obstacles in the opening.
- Always lock the drive unit cabinet during use.

2.6 SAFETY DURING INSTALLATION, MAINTENANCE AND DISASSEMBLY



- When work is carried out or while cleaning the barrier, the power supply to the system must be switched off and it must be ensured that it cannot be switched on unexpectedly.
- To move the barrier manually, first switch the automatic fuse in the cabinet to "off" and make sure it cannot be switched on again (e.g. by locking the cabinet).



- The barrier is driven by means of a lever construction. This is located in the cabinet. Beware of moving parts when carrying out maintenance in and near the barrier cabinet.
- The EN 12453 and EN 13241 standard must be taken into consideration during installation and maintenance. To achieve a good safety level, the above standard and the national regulations must be taken into account in non-EC countries.
- If the barrier is damaged, always contact the supplier for an inspection.

3 OPERATION

3.1 OPENING / CLOSING BARRIER - NORMAL USE

The barrier can be operated using pulse operation, for instance via a button or key switch. The location of the operating device depends on the customer's choice or the operating mode.

- OPEN:
Press the "Open" button. The barrier opens to the next end position (85°).
- CLOSE:
Press the "Close" button. The barrier closes completely.

- **STOP:**
Press the "Stop" button. The barrier will stop immediately, irrespective of its direction of travel. To restart the barrier press "Open" or "Close".

3.1 OPEN / CLOSE BARRIER MANUAL RELEASE

In case of an emergency, the barrier can also be opened or closed manually. To do this the cabinet must be opened.



Never attempt to raise/lower the barrier by pushing the barrier arm. This can cause severe damage. Ensure whenever lowering the barrier that the area beneath is free from people or any other obstacle.

3.1.1 Barrier manual release

- Unlock the cabinet via the locks on the back
- Lift the cover away from the cabinet
- Switch off the mains power, switch is located on the right hand side of the cabinet
- Turn either raise/lower nipple fully clockwise depending on desired direction of travel

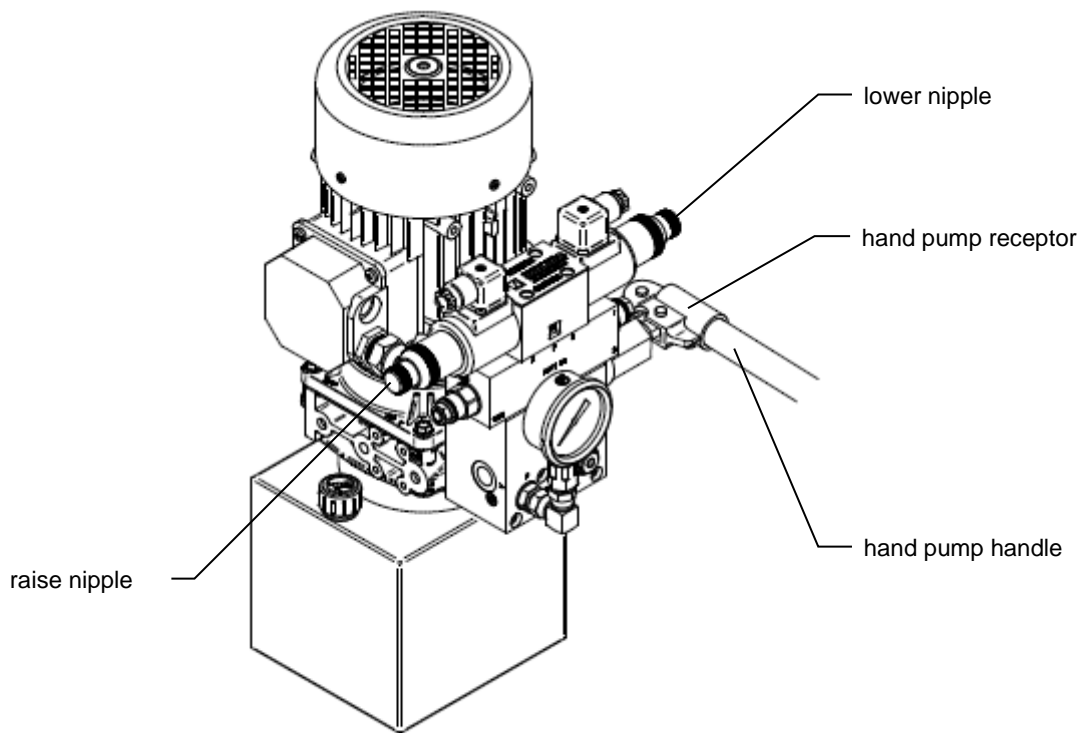


Figure 1: Manual release

- Locate the hand pump handle, which is stored below the door, into the hand pump receptor
- Apply lateral movements to the pump handle. It takes a few movements to begin raising or lowering as pressure builds



Ensure the nipple is released before powering up again. To release, turn it counterclockwise.

4 DESCRIPTION

4.1 94X SERIES

The Heras 94x series is a range of impact tested dual beam vehicle barriers used to control vehicular access to any kind of high security controlled areas.

The dual beams integrated with the unique fibre system provide formidable mechanical characteristics and greater energy absorption on impact than a conventional barrier system. The barrier is applicable for perimeter and interior site use and can operate both indoors and outdoors. Various beam lengths are available from up to 6 meters clear opening.

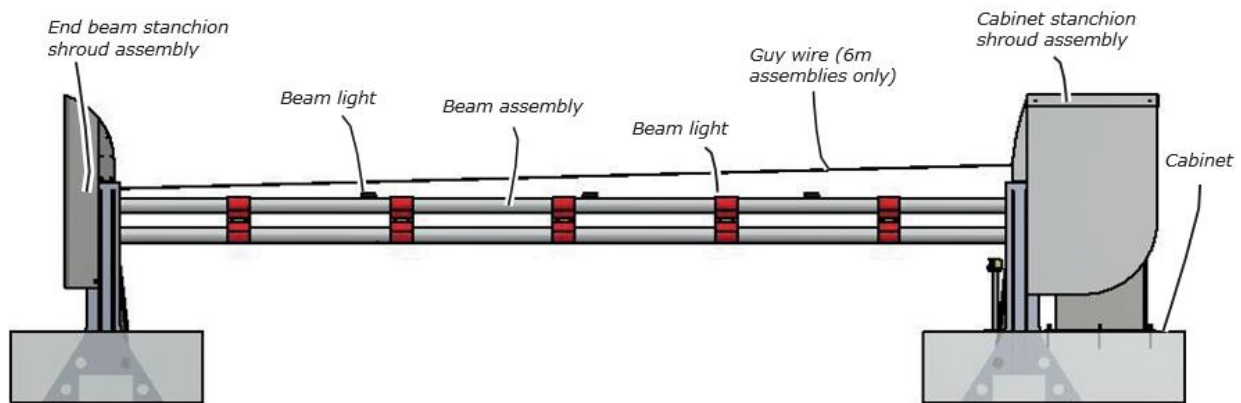


Figure 2: 94X barrier terms

4.2 LOOP DETECTION

A detection loop is an induction loop embedded in the road surface that, with the assistance of electronics, can detect a vehicle. When the loop detects a vehicle, the barrier will open and/or stay open. Detection loops do not detect people.

4.3 LASER SCANNER

A laser scanner is a motion and presence related detection device intended for detecting objects in the detection zone. The laser scanner must read in a reference point as part of the installation process. The barrier will no longer close without a reference point. The laser scanner will ensure that the barrier does not close, or stops during closing if an object is in the field.

The laser scanner can also be set so that the barrier opens when a vehicle approaches.

4.4 ACCESSORIES

4.4.1 Traffic lights (Optional)

Red/green signal lights that indicate the open/closed position statuses. People are only allowed to pass through the barrier opening when the green light is on.

4.4.2 Flash light / beacon (Optional*)

A flashing beacon to ensure extra attention before and while the barrier is opening/closing.



* In some countries, a flash light is obligatory.

4.4.3 Temperature kits (Optional)

In climates with extreme temperatures, the addition of a heater and/or cooler kit will be necessary to ensure the motor functions optimally. If temperatures regularly fall below 0°C, a low temperature modification kit may be required. If temperatures regularly exceed 40°C, a high temperature modification kit may be required.

Systems operating in such temperatures without the recommended temperature kits may have operational issues.

4.5 OPERATING MODES

The control software is available to users in two possible operating modes:

- hold-to-run mode
- automatic mode

4.5.1 Hold-to-run mode

The barrier drive can be operated in hold-to-run operating mode with limited comfort. In hold-to-run operating mode, the barrier does not require safety features. The barrier will move as long as an OPEN or CLOSE key is pressed.



It shall only be possible to operate the manual actuators in such a position that allows full, direct and permanent real-time view of the barrier during the barrier movement and ensures that the person controlling the barrier is not in a hazardous position. No controls other than manual actuators are to be installed. The barrier shall stop when the manual actuators is released.

4.5.2 Automatic mode

If the safety facilities have been installed completely, the motor drive will usually work in this automatic mode. The user can only use all barrier functions in automatic mode. Total safety of the barrier is guaranteed here by the activated safety facilities.

Opening or closing the barrier can be initiated in automatic mode by means of:

- hold-to-run buttons OPEN and CLOSE
- impulse buttons OPEN, STOP and CLOSE

Every movement command causes the full action that has been selected to be performed (open barrier, close barrier etc.). Every action is stopped immediately by a stop command or a signal from the safety facilities.

5 CONTROL UNIT

5.1 TOTAL VIEW OF CONTROL PANEL

The control panel for the barrier incorporates a PLC, a switch-mode power supply unit and a set of field termination connectors/terminals.

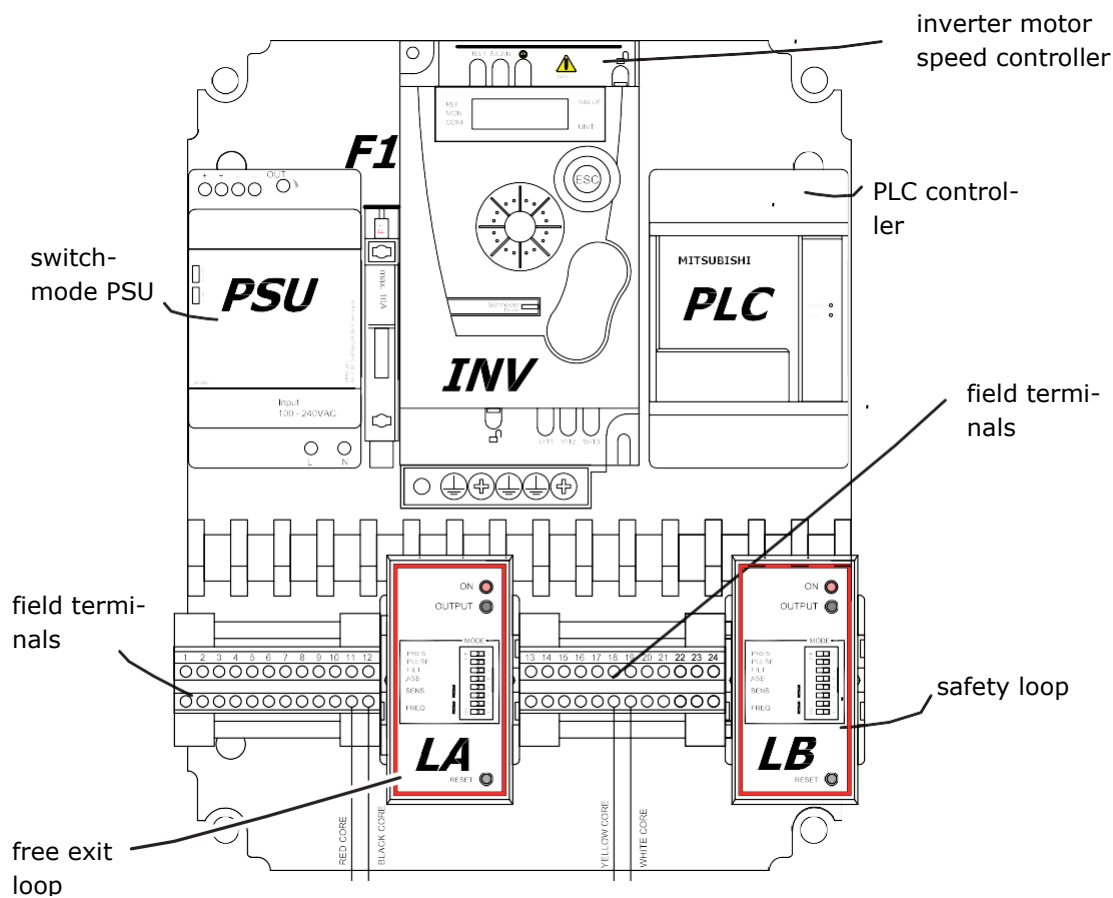


Figure 3: View of control panel

6 COMMISSIONING

In this chapter we discuss commissioning the 94X barrier.

6.1 SELECTING CONTROL LOGICS

To select logic simply turn the two potentiometers to the relevant positions as shown below:

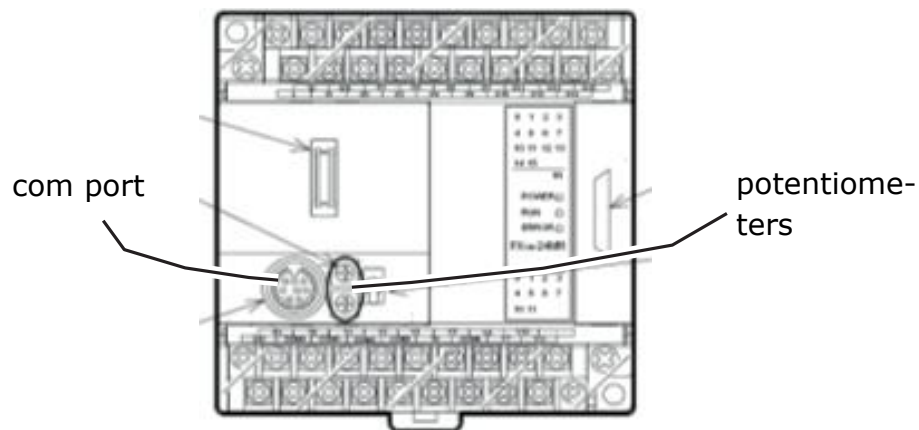


Figure 4: PLC

Automatic Logic

Turn top potentiometer fully clockwise and bottom potentiometer fully counter-clockwise.

Hold to Run(Open/Raise and Close/Lower)

Turn top potentiometer fully counter-clockwise and bottom potentiometer fully clockwise.

6.1.1 Automatic logic

	Inputs					
	Stop button	Open	Close	Laser scanner/loop	Open loop (F exit)	Auto close timer
Closed	No effect	Opens	No effect	No effect	Opens	Inactive
Closing	Stops	Stops and reopens	No effect	Stops until cleared	Stops and reopens	Inactive
Open	No effect	No effect	Closes	Closes once clear	Closes once clear	Closes after 5-30 seconds (adjustable)
Opening	Stops	No effect	No effect	Closes once clear and fully open	Closes once clear and fully open	Inactive
Mid position	No effect	Open	Closes	No effect	Opens	Inactive

6.1.2 Hold-to-run logic

	Inputs					
	Stop button	Open	Close	Laser scanner/loop	Open loop (F exit)	Auto close timer
Closed	No effect	Opens	No effect	No effect	Opens	Inactive
Closing	Stops	Stops and reopens	No effect	Stops until cleared	Stops and reopens	Inactive
Open	No effect	No effect	Closes	No effect	No effect	Inactive
Opening	Stops	No effect	No effect	No effect	No effect	Inactive
Mid position	No effect	Open	Closes	No effect	Opens	Inactive

6.2 AUTO-CLOSE TIMER

When the barrier system is set to 'automatic logic' and an open signal is received from either a push button or card reader the barrier will open, should no vehicle drive through the barrier then the barrier arm will re-close after a set time.

Adjusting this timer is done by turning the bottom potentiometer. See Figure 4:

6.3 ELECTRICAL LIMITS

The travel of the barrier is governed by 4 proximity switches and can be adjusted by loosening the lock nuts.



The proximity switches have a maximum read range of 4 mm and a minimum read range of 2 mm. Stay within this range and make sure the lock nuts are correct and tight



The open angle must not exceed 85° as illustrated on the drawing. The slowdown activation position, is 15° short of full travel as shown on the drawing. 15° measurement is for both up and down positions.

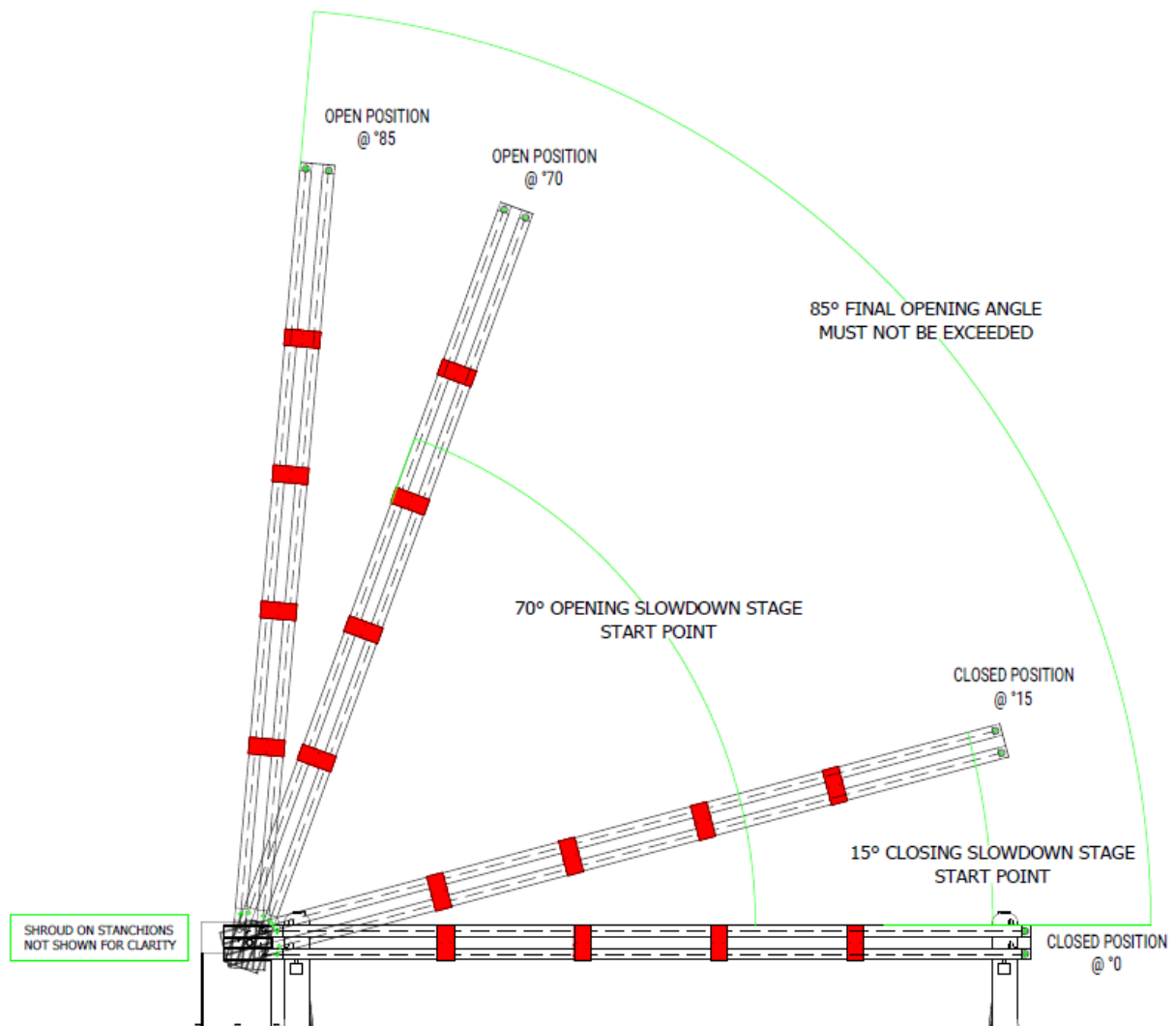


Figure 5: Proximity switch positions

6.4 MECHANICAL LIMITS

The barrier also has mechanical limits for each direction of travel.



The mechanical limits are set in order that there is a 5 mm gap between the bolt heads and the quadrant at both the fully lowered and fully raised positions.

6.5 PRESSURE SETTING

The barrier is driven by means of a hydraulic power pack. To avoid damage, the pressure must not be set higher than 70 Bar.

The power packs can be equipped with a pressure gauge to enable you to read the value while opening or closing the barrier at full speed.

If no gauge is installed, use one that can be connected to the test point located on the barrier hydraulic power pack.

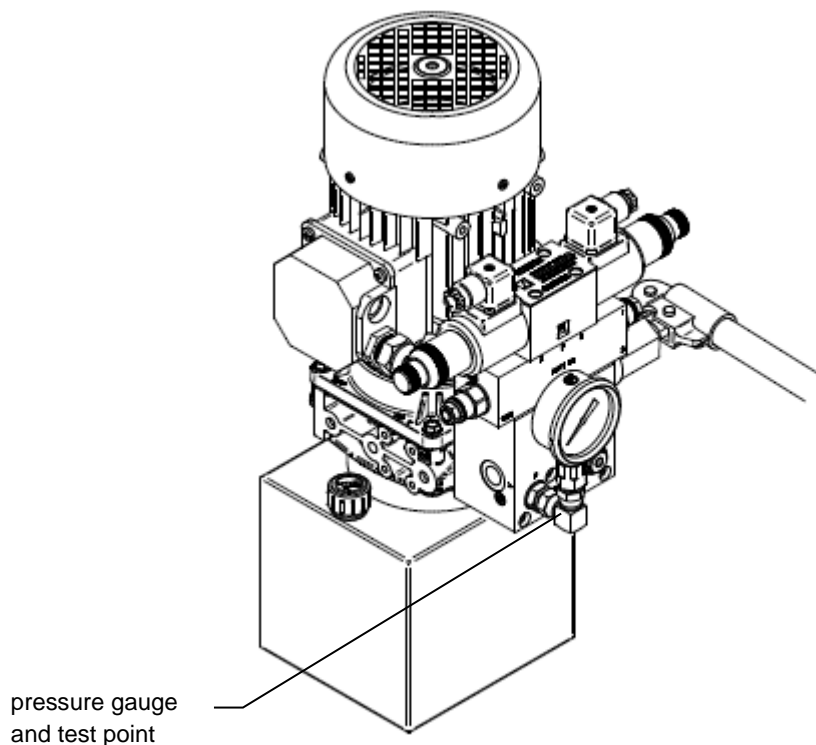


Figure 6: Pressure gauge and test point

The relief valve must be used to set the maximum pressure of 70 Bar. Adjust the pressure whilst running open at full speed. It will be necessary to restrict the barrier arm from lifting during operation to measure the required pressure.

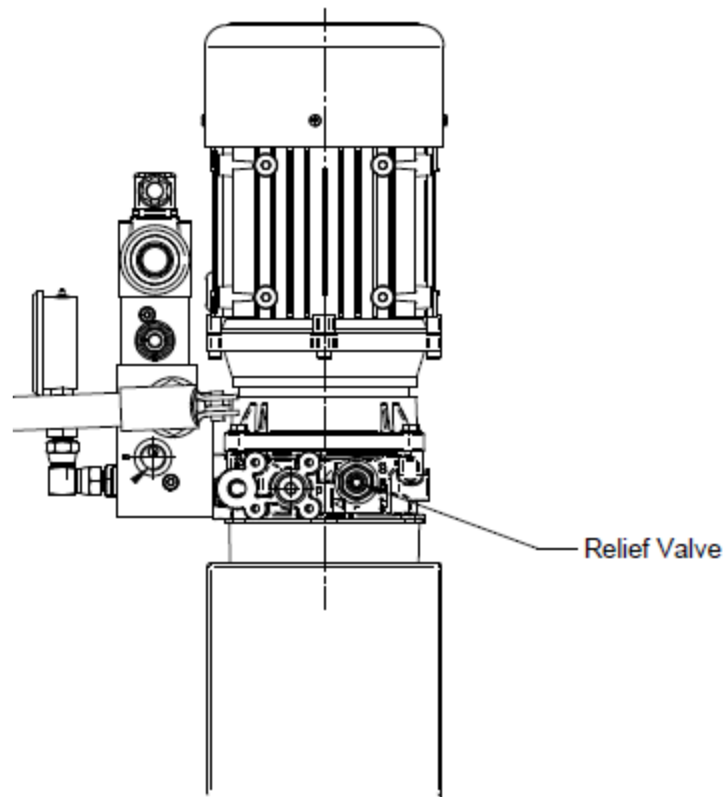


Figure 7: Position relief valve

7 EMERGENCY STOP

The 94X does not have an emergency stop system. According to the Machine Directive 2006/42/EC, annex 1, article 1.2.4.3., this is not necessary if the emergency stop system would not lower the risk. However, an emergency stop system can be connected to the barrier.

8 MAINTENANCE



- When working on the barrier or cleaning it, the power supply to the system must be switched off and protected from unauthorized switching on.
- If the barrier must be moved manually, first turn the system circuit breaker in the cabinet to the "off" position and protect it from being switched on (e.g. by locking the cabinet).

8.1 BARRIER MAINTENANCE

Under normal conditions and with regular maintenance, 94x barriers have a life of at least 2,000,000 cycles. To ensure that your barrier operates safely, reliably and in compliance with all relevant legislation and laws, we recommend a MINIMUM of one maintenance check every 6 months. However, to ensure safety and proper operation of the barrier, more frequent maintenance checks are recommended during the lifetime of the barrier. Any maintenance work, including repair, replacement, modification and upgrade MUST be conducted by a Heras trained, qualified, competent and certified technician using Heras approved tools and spare parts. Failure to ensure that the barrier is used in accordance with User manual provided, or any faults or damage caused by willful misuse, will result in any warranty becoming void. Please note, Heras does not accept and liability for any personal injury, material damage or consequential loss caused by misuse of the barrier.

During maintenance, essential points of the barrier must be periodically checked using an inspection protocol.

Maintenance Item	Instructions	Frequency
Overall barrier	Visually inspect barrier for signs of wear, deterioration or damage, particularly around fixings and areas of moving parts For any cleaning required, use non-abrasive detergent and cloth to remove dirt and grime	6 months
Clean laser scanner	To clean the scanner, use compressed air. A soft, clean and damp microfibre cloth can be used for any dirt or marks	6 months
Foundation bolts	Check for tightness, signs of wear or damage. If necessary torque tighten	6 months
Equipment fixings	Torque tighten the impact shaft bolt pairs at each end of the barrier beam	6 months
Control panel/ control points and safety devices	Operate the barrier with the applicable control methods, ensure function is as intended. Ensure all control points and safety devices operate as intended	6 months
Cable terminations	Check all terminations are secure and not worn. Tighten any loose electrical connections	6 months
Yoke assembly bearing lubrication	<ul style="list-style-type: none"> Plummer block bearing: insert grease in to grease nipple Oilite bush solid block bearing: remove cover bolt and insert oil in to block until full – refit bolt (high grade mineral oil ISO 68) 	6 months
Cylinder bearing assemblies	Apply multi-purpose grease to the two cylinder rod end pin grease nipples	6 months
Beam and fibre systems	Visually inspect beam and fibre integrity for wear, deterioration or damage	6 months
Guy wire (6m only)	Inspect the anchor connection points at both ends. If necessary adjust with wire turnbuckle adjustment mechanism to achieve desired tension	6 months
Oil level	Examine oil level in oil tank located at the base of the power pack. Top up if required with the ISO 32 grade oil. (Allow approx. 20% spare volume in tank)	12 months
Limit switches	Ensure the lock nuts are secure and the proximity switches are activating in accordance with chapter 6.3 of this document	12 months
Solenoids	Inspect the solenoids for wear or deterioration. Ensure connections are functioning.	12 months
Hydraulic pressure	Check pressure setting using an appropriate hydraulic pressure gauge. Only an approved Heras engineer should carry out this test.	12 months
Top hat	Check the top hat of the cabinet is securely fitted.	12 months
Oil replacement	Fully drain the hydraulic oil from oil tank, replace with ISO 32 grade oil. (Allow approx. 20% spare volume in tank)	24 months

8.2 CLEANING

The barrier and the outside of the cabinet can be cleaned using a non-aggressive detergent and a soft cloth, brush or sponge. Avoid using a pressure cleaner as this might damage the barrier and the cabinet.

9 DECOMMISSIONING AND REMOVAL



Ensure that the barrier is dismantled by a qualified technician.
Disconnect the electricity supply in a safe way from the drive unit.

Use the installation manual.

At the end of their service lives the products must be disposed of in accordance with all local, regional and national rules and instructions. Heras is also happy to take the products back and then dispose of them in an appropriate manner.

Versions of the 94x series with a length of 6m have highly tensioned cables fitted above the beam assembly. If these cables are cut, they can snap with great force. This can lead to serious injury. Do not attempt to disassemble this cable.



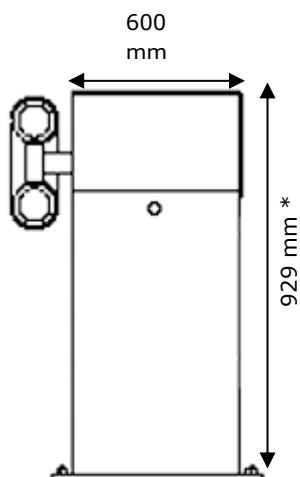
There is a danger of being cut when disassembling. Wear suitable gloves.

10 SPARE PARTS

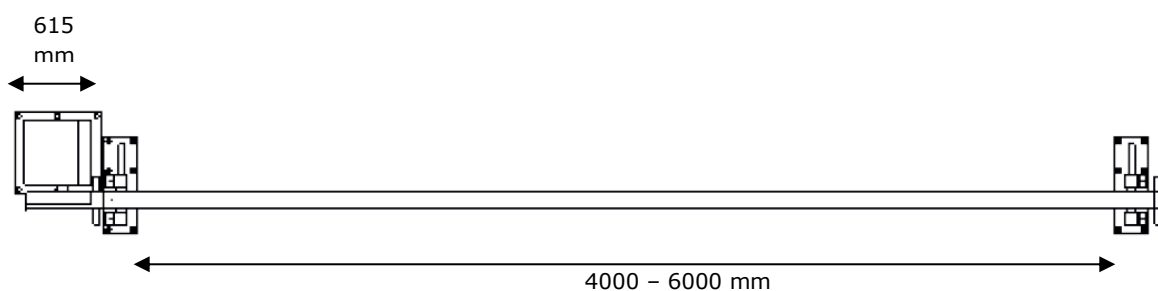
A spares list can be provided by Heras upon request.

11 TECHNICAL DATA

11.1 DIMENSIONS CABINET



*: overall height: 1600 mm



11.2 OPERATING CONDITIONS AND SPECIFICATIONS

Designation	Unit	Value
Beam length	meter	4, 5 and 6 meter
Wind force	Bft	Max. 12
Temp. range	°C	-10 / +45 °C
Cabinet IP rating	--	IP54
Duty cycle	%	60%
Weight	kg	1180 kg (total assembly)
Sound emission	dB	≤70
Standard color	--	RAL 7016 (other RAL/BS colors on request)

11.3 OPERATING TIME

Designation	Unit	Value
Operating time	Sec.	7 – 18 seconds (dependent on beam size)

11.4 ELECTRICAL INFORMATION

Electrical information	
Power supply	Single phase 200-240VAC 50/60 Hz Supply rated at 10 amps
Fuse protection (on site) when operated on power network	max. 16 A
Internal power supply for external 24 V devices	Power Supply Unit 30W, 90-260VAC Input, 24VDC Output
Controller	Melsec Compact PLC CPU FX3S, 8 IN, 6 OUT

Appendix A: Declarations DoP / DoC



Declaration of Performance



Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration - Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2018.00-01

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Barrier - Slagboom - Schranken - Barrières - Bommar - Bommer - Bommer

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod - Identifikasjonskode - Identifikationskode

942 - 943

Serial number - Serienummer - Seriennummer - Numéro de type - Serienummer - Serienummer - Serienummer

n/a

Intended use - Beoogd gebruik - Vorgesehener Verwendungszweck - Usage prévu - Avsedd användning - Tiltent bruk - Tilsigtet brug

Giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or residential premises.
Het bieden van een veilige toegang voor goederen en voertuigen begeleid of bestuurd door personen in industriële, commerciële of residentiële ruimten.
Eine sichere Zufahrt für Waren und Fahrzeuge, begleitet oder geführt (gesteuert) von Personen, in industriellen, gewerblichen oder Wohnbereichen zu ermöglichen.
Permettre l'accès des marchandises et des véhicules accompagnés ou conduits par des personnes, en toute sécurité, dans des locaux industriels et commerciaux ou des garages dans les zones d'habitation.
För vilka avsedd användning är att ge säkert tillträde för gods och fordon åtföljda av eller körda av personer på industriområden, kommersiella områden eller bostadsområden.
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Contact address manufacturer - Contactgegevens fabrikant - Kontaktanschrift des Herstellers - Adresse de contact du fabricant - Tillverkarens kontaktadress - Tillverkarens kontaktadress - Kontaktadresse fabrikant

Heras UK - Herons Way - Doncaster, DN4 8WA South Yorkshire - UK

System of assessment and verification of constancy of performance

Systeem voor beoordeling en verificatie van de prestatiebestendigheid
System zur Bewertung und Überprüfung der Leistungsbeständigkeit
Système d'évaluation et de vérification de la constance des performances
System för bedömning och fortlöpande kontroll av byggprodukternas prestanda
System for vurdering og verifisering av prestasjonsbestandighet
System til vurdering og kontrol af ydeevnens konstans

System 3 - Systeem 3 - System 3 - Système 3 - System 3 - System 3 - System 3

Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration - Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2018.00-01

Report number - Rapportnummer - Reportnummer - Numéro de rapport - Rapportnummer - Rapportnummer - Rapportnummer

CS-1117-02-002

Identification number notified body - Nummer van de controle instantie - Kennnummer der notifizierten Stelle - Numéro d'identification de l'organisme notifié - Det anmeldte organets identifikationsnummer - Kontrollinstansens nummer - Identifikationsnummer bemyndiget organ

n/a

Harmonised standard - Geharmoniseerde norm - Harmonisierte Norm - Norme harmonisée - Harmoniserad standard - Harmonisert standard - Harmoniseret standard

EN 13241:2003+A2:2016

Declared performance Aangegeven prestaties Erklärte Leistung Performances déclarées Prestanda som intygas Angitte prestasjoner Deklareret ydeevne	Essential characteristics Essentielle kenmerken Wesentliche Merkmale Caractéristiques essentielles Väsentliga egenskaper Grunnleggende kjennetegn Väsentlige egenskaber	Performance Prestaties Leistung Performances Prestanda Prestasjoner Ydeevne	Requirements Eisen Anforderungen Exigences Krav Krav Krav
	Watertightness	NPD	4.4.1
	Release of dangerous substances	NPD	4.2.9
	Resistance to wind load	class 3	4.4.3
	Thermal resistance (where relevant)	NPD	4.4.5
	Air permeability	NPD	4.4.6
	Safe opening (for vertically moving doors)	NPD	4.2.8
	Definition of geometry of glass	NPD	4.2.5
	Mechanical resistance and stability	PASS	4.2.3
	Operating forces (for power operated doors)	NPD	4.3.3
	Durability of watertightness, thermal resistance and air permeability against degradation	NPD	4.4.7

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Ondertekend door
Unterzeichnet von
Signé par
Undertecknad av
Undertegnet av
Underskrevet af

Gilles Rabot
Chief Executive Officer
Oirschot
04-02-2022





Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration -
Ytelseserklæring - Ydeevnedeklaration

DoP No: CE-DOP-2018.00-01

Assessed products - Beoordeelde producten - Bewertete Produkte - Produits évalués - Produkter som bedömts - Vurderes produkter - Vurderede produkter		
Crash Tested Barrier 94x Series		
Technical data	Version: Drive: Control unit: Safety:	Crash Tested PAS 68 3 phase: 400VAC 50/60 Hz Supply Rated @ 10 Amps Mitsubishi FX3S PLC BEA Safety Sensor – LZR H100 Tested according to EN 12445:2000 and EN 12453:2017+A1:2021
Wind class 2	Opening:	4m, 5m, 6m



Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration - Ytelseserklæring - Ydeevnedeklaration

DoP No: UKCA-DOP-2018.00-01

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Barrier - Slagboom - Schranken - Barrières - Bommar - Bommer - Bommer

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod - Identifikasjonskode - Identifikationskode

942 - 943

Serial number - Serienummer - Seriennummer - Numéro de type - Serienummer - Serienummer - Serienummer

n/a

Intended use - Beoogd gebruik - Vorgesehener Verwendungszweck - Usage prévu - Avsedd användning - Tiltent bruk - Tilsigtet brug

Giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or residential premises.
Het bieden van een veilige toegang voor goederen en voertuigen begeleid of bestuurd door personen in industriële, commerciële of residentiële ruimten.
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Chief Executive Officer
Oirschot
04-02-2022





Declaration of Performance

Prestatieverklaring - Leistungserklärung - Déclaration des performances Prestandadeklaration - Ytelseserklæring - Ydeevnedeklaration

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Wind class 2	Opening:	4m, 5m, 6m



Declaration of Conformity

Verklaring van overeenstemming - Konformitätserklärung - Déclaration de conformité - Deklaration om överensstämmelse - Konformitetserklæring - Overensstemmelseserklæringen

DoC No: CE-DOC-2021.09-01

EN We herewith declare that the product complies with the following directives and standards.
NL Hiermee verklaren wij dat het product in overeenstemming is met de volgende richtlijnen en normen.
DE Hiermit erklären wir, dass die Produkte der nachfolgenden Richtlinien und Normen entspricht.
FR Par la présente nous déclarons que le produit est conforme aux directives et normes suivantes.
SV Vi deklarerar härmed att produkten överensstämmer med följande riktlinjer och normer.
NO Vi erklærer med dette at dette produktet er konformt med følgende direktiv og normer.
DA Vi erklærer hermed, at produktet er i overensstemmelse med følgende direktiver og standarder.

Product type - Producttype - Produkttyp - Type de produit - Produkttyp - Produkttype - Produkttype

Barrier - Slagboom - Schranken - Barrières - Bommar - Bommer - Bommer

Identification code - Identificatiecode - Kenncode - Code d'identification - Identifikationskod - Identifikasjonskode - Identifikationskode

942 - 943

Contact address manufacturer - Contactgegevens fabrikant - Kontaktanschrift des Herstellers - Adresse de contact du fabricant - Tillverkarens kontaktadress - Tillverkarens kontaktadress - Kontaktadresse fabrikant

Heras U.K. - Herons Way - Doncaster, DN4 8WA South Yorkshire - UK

Directives - Richtlijnen - Richtlinien - Directives - Direktiven - Direktiver - Direktiver

2006/42/EC Machine Directive
305/2011 Construction Products Regulation
2014/30/EU EMC Directive

Standards - Normen - Normen - Normes - Standarder - Standarder - Standarder

EN 13241:2003+A2:2016 - EN 12604:2017+A1:2020 - EN 12453:2017+A1:2021

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Directives - Richtlijnen - Richtlinien - Directives - Direktiven - Direktiver - Direktiver

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
Construction Products Regulations 2013

Standards - Normen - Normen - Normes - Standarder - Standarder - Standarder

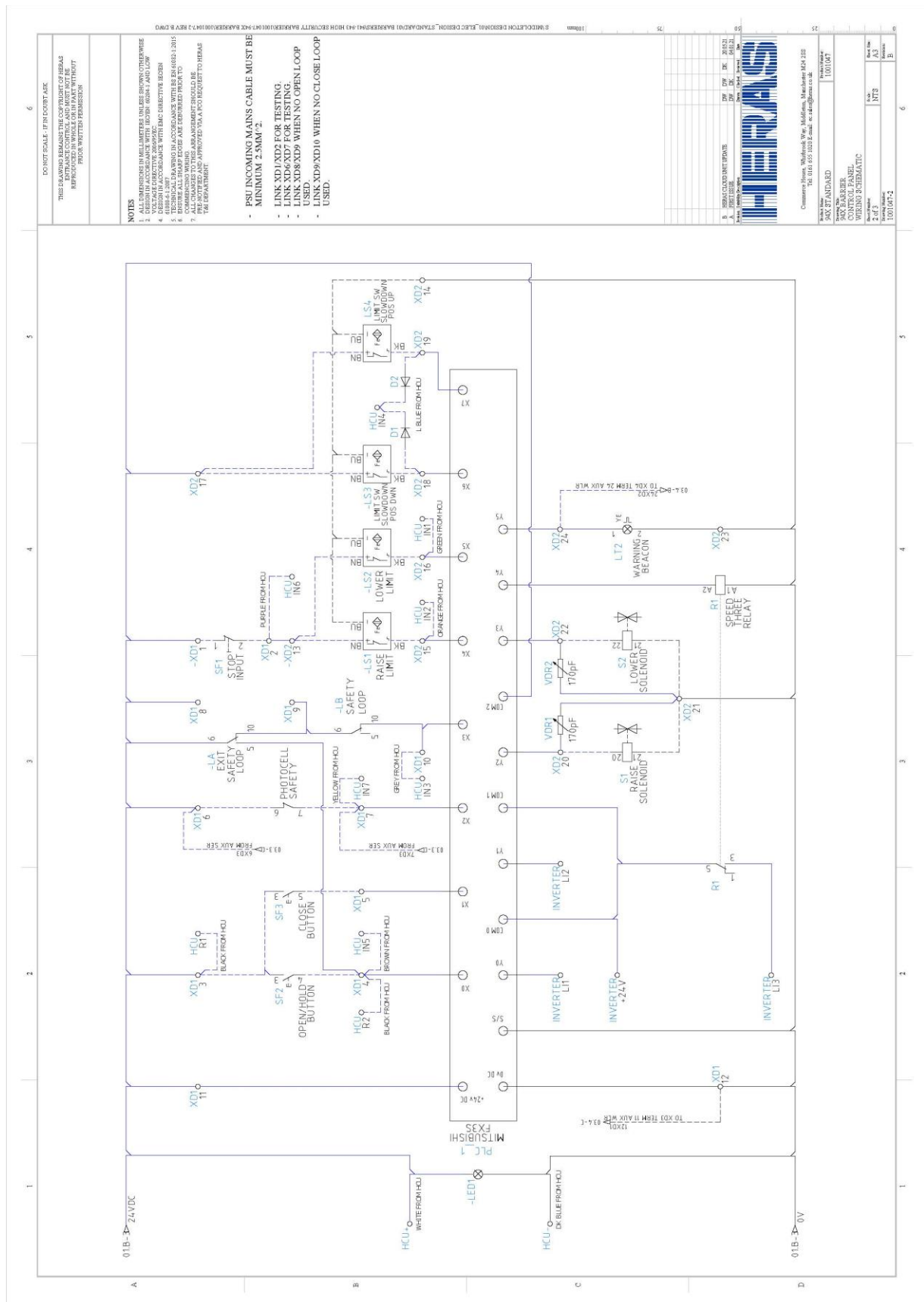
EN 13241:2003+A2:2016 - EN 12604:2017+A1:2020 - EN 12453:2017+A1:2021

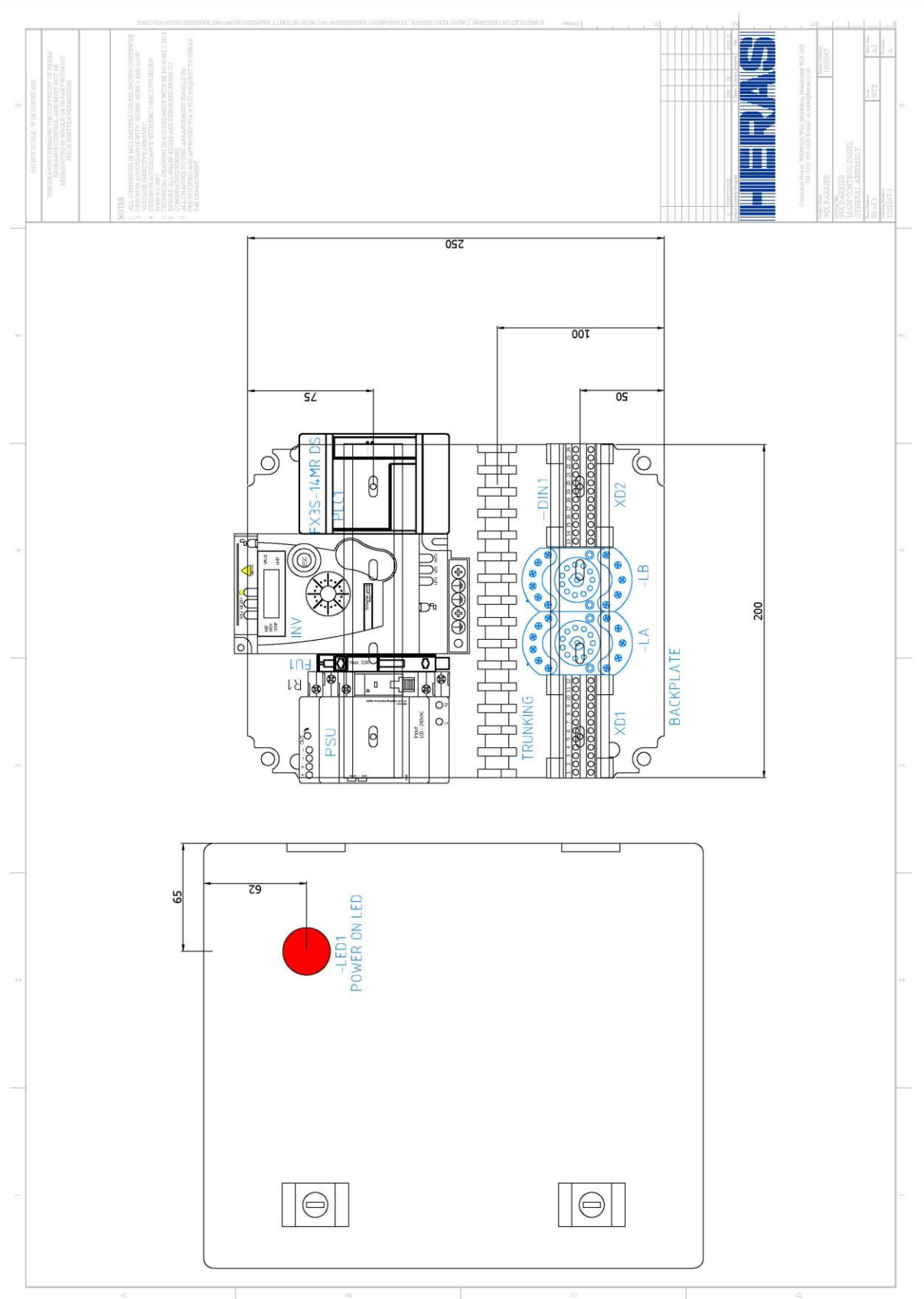
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**Heras B.V.
Hekdam 1
P.O. box 30
5688 ZG Oirschot**

**Tel: +31 499 55 12 55
E-mail: infoNL@heras.nl**

Local supplier stamp/ Lokal återförsäljare, stämpel