



Certificate of Warranty

This certificate is awarded to

12037 - Plot 9 East Midlands Gateway, Field Farm, DE74 2DL

Portal UK Automatic Door Service & Maintenance Ltd completed and commissioned

1No ASSA ABLOY SW300 double swing door on

23/03/2022

The company hereby warrants for a period of 12 Months

Portal UK Service & Maintenance Ltd, Unit 5 Windmill Trading Estate, Windmill Lane, Denton, Manchester, M34 3JN



AUTOMATIC DOOR COMMISSIONING SHEET

PASS Yes / No

Job Ref: 12057
 Site Address: EMG Plot 9
 tegworth DE74 2DL
 Date: 23/03/22

Make and Model: Psw250 Opening Width: 1600mm

Door Location: front entrance

<input checked="" type="radio"/> Double Swing	<input type="radio"/> Single Swing	<input type="radio"/> Double Slide	<input type="radio"/> Single Slide
<input type="radio"/> Single Telescopic		<input type="radio"/> Double Telescopic	

Times

Opening Time: _____

Closing Time: 5 s

Hold Open Time: 5 s

6 s

Activation Distances

Straight Approach: 1500m

Side Approach: 1000m

Safety Device / s

Hold Open Beams

Number Fitted: NA

Height above floor level: NA m

Presence Sensors

Field width: 1600 m

Field depth: 300 m

Hold open time: 30 s

Swing only

Overhead: NA Fitted / Not Fitted

Door Mounted: NA Fitted / Not Fitted

Drawing in protection

Leading stile to jamb: NA mm

Outer stile to mullion: NA mm

Barrier rails safety pocket screens: Fitted / Not Fitted

Finger guards: - Fitted / Not Fitted

Escape System

Fail open: Satis / Not Satis

Signage fitted: Auto door + keep clear

Commissioned from: <input checked="" type="radio"/> 240v Mains	Temp Supply	Generator
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Keys given to: *[Signature]* Signature (client): *[Signature]*

Engineer name: B. COX Signature (engineer): *[Signature]*

Comments: X2 Barriers also fitted.

Declaration of conformity

We
Entrematic Group AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

declare under our sole responsibility that the type of equipment:

EM PSW250

complies with the following directives:

2004/108/EC ElectroMagnetic Compatibility Directive (EMCD)
2006/42/EC Machinery Directive (MD)

Harmonized European standards which have been applied:

EN 60335-1 EN 60950-1 EN 61000-6-2 EN 61000-6-3 EN ISO 13849-1

EN 16005

Other standards or technical specifications, which have been applied:

BBR BVL DIN 18263-4 FCC 47 CFR Part 15 B

EN 1634 EN 60335-2-103 IEC 60335-2-103 IEC 60335-1

EC type examination or certificate issued by a notified or competent body (for full address, please contact Entrematic Group AB) concerning the equipment:

The manufacturing process ensures the compliance of the equipment with the technical file. The manufacturing process is regularly assessed by 3rd party.

Compilation of technical file:

Johnny Persson
Entrematic Group AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

Email: johnny.persson@entrematic.com

Place	Date	Signature	Position
Landskrona	2014-05-19	Johnny Persson	Product Safety & Liability Manager



Swing Door Operator

ASSA ABLOY SW300

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in door opening solutions



ASSA ABLOY SW300 swing door operator is the perfect choice where reliable performance and superior safety together with an appealing slim look is of extra importance.

Energy-efficiency

ASSA ABLOY automated door systems are sustainable by nature and automatically convenient as they ensure opening only when needed to pass, eliminating unnecessary air infiltration and keeping climate zones separate. The innovative electronics in the ASSA ABLOY SW300 ensure minimal energy consumption for optimal door performance.

Safety

The ASSA ABLOY SW300 is safe to use for all, despite age and physical ability. In case of an obstruction by a person or object, the obstruction control ensures stop on stall and reverse operation. Furthermore, the ASSA ABLOY SW300 swing door operator is fully compliant with European standards and fire approved, making it ideal for creating and maintaining security, smoke and fire zones.

Technical specifications

Power supply	100-240 VAC +10/-15%, 50/60 Hz, mains fuse max 10A (building installation)
Power consumption	Max. 300 W
Auxiliary voltage	24 V DC, max. 700 mA
Monitored battery backup unit	24 V DC
Electromechanical locking connection	12 V DC, max. 1200 mA or 24 V DC, max. 600 mA
Ambient temperature	-20 °C to +45 °C
Relative humidity (non condensing)	95%
Recommended max. door weight and door width Inertia $J = \text{Door Weight} \times (\text{door width})^2 / 3$ PUSH = 140 kgm ² , PULL = 80 kgm ²	
Class of protection IP20 - To be installed internally or externally with suitable weather protection	

ASSA ABLOY SW300 complies with

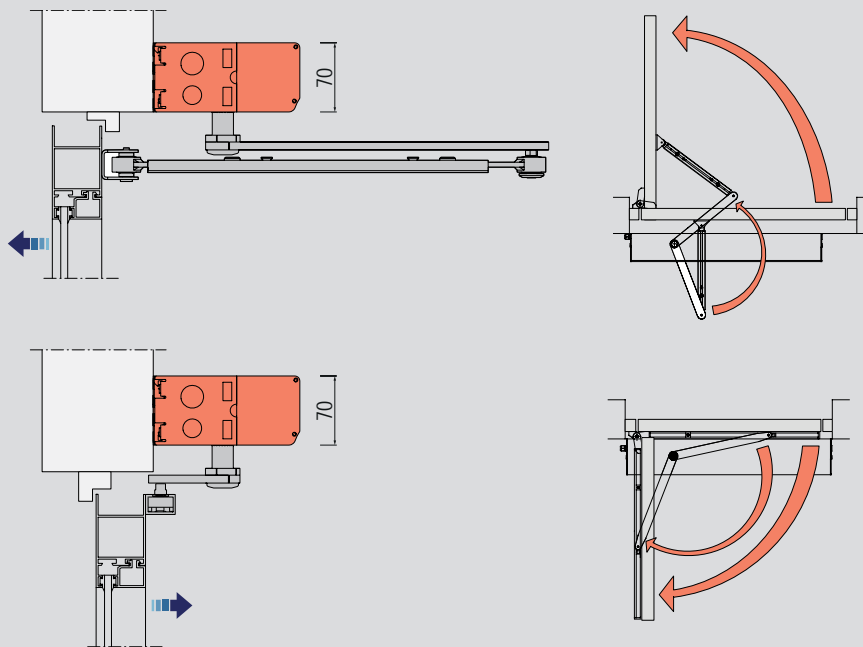
- EN 16005
- EN 60335-2-103
- IEC 60335-1
- IEC 60335-2-103
- EN 1634-1
- EN 1158 (Push 4-7, Pull 4-6)
- DIN 18263-4 (Push 4-7, Pull 4-6)
- EN 1154 (Push 4-7, Pull 4-6)
- EN 1155 (Push 4-7, Pull 4-6)

Convenience

An entrance equipped with a ASSA ABLOY SW300 operator is always accessible due to battery back-up. The ASSA ABLOY SW300 also monitors the battery for power and function, and gives an electronic indication if it is not working properly and needs to be replaced.

The operator is truly reliable during all weather conditions as it is not affected by stack pressure and wind load when opening and/or closing. Also, for your convenience, safety and quick exit, the ASSA ABLOY SW300 can easily be manually opened, despite extended closing torque, due to sensor detection ensuring lowest manual opening force.

In addition to the standard version, there is a Double Acting (DA) function with possibility for manual opening in both directions with automatic reset.



Security

ASSA ABLOY SW300's intelligent locking features are designed for your peace of mind. For example, double doors are precisely controlled to prevent jamming and increase security. ASSA ABLOY SW300 operator can also sense when the door has not closed completely and will prompt the door to open again and close fully, even under heavy wind load and stack pressure.

Aesthetics

The 70 mm slim ASSA ABLOY SW300 swing door requires a minimum of space while providing maximum performance. Furthermore, the door system operates impressively silent despite its amazing capability to handle heavy doors up to 250kg. ASSA ABLOY SW300 can be retrofitted with existing doors and thereby keeping the overall door system design and environment aesthetically intact.

Standard equipment

Cover - Silver anodized aluminium, other paint finishes optional

Dimensions: - Length 840 mm
 - Height 70 mm
 - Depth 148 mm

Control unit CU-300 with EXU-SI and EXU-SA included
- with possibility to connect manual and automatic activation units, position switches, el. locks, presence sensors, battery, kill, open/close etc.

Push and go

Power assist

Accessories and Options

Programme selectors

Sync cable – Used on double doors to select the opening and closing order

Battery backup unit

Coordination unit

Manual and automatic activation units

Impulse and presence detection sensors

Fire kit

Arm systems PUSH and PULL

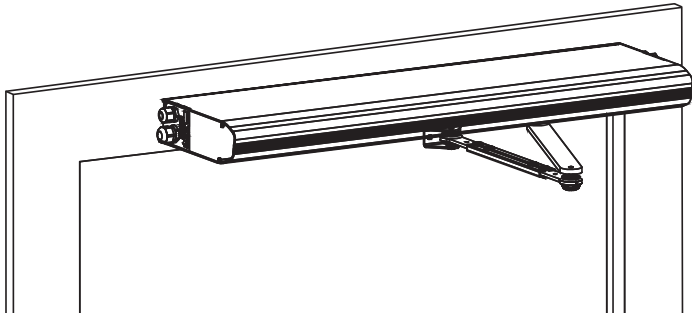
Finger trap protection devices

Double acting kit

This equipment should be installed, regularly inspected, maintained and serviced by trained and authorized personnel. Preventive maintenance plans are highly recommended for a proper and safe operation. Talk to your ASSA ABLOY Entrance Systems representative to learn more about our service offering!



Swing Door Operator EM PSW250



User Manual
Original instructions

Instructions for safe operation



- Failure to observe the information in this manual may result in personal injury or damage to equipment.
- To reduce the risk of injury to persons - use this operator with single or double pedestrian swinging or folding doors only.
- Do not use the equipment if repair or adjustment is necessary.
- Disconnect supply when cleaning or other maintenance is to be carried out.
- The operator can be used by children age 8 and above, and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if they have been given supervision or instruction by a person responsible for their safety concerning safe operator use and the possible hazards involved.
This does not however prevent those persons to use the door where the operator is installed.
- Cleaning and user maintenance shall not be made by children without supervision.
- Do not let children climb on or play with the door or the fixed/remote controls.
- The doorset can be operated automatically by sensors or manually by activators. It can also be used manually as a door closer.

Congratulations on your new automatic door!

Entrematic Group has developed automatic doors for more than 50 years. State-of-the-art technology and carefully tested materials and components provide you with a superior product.

As with all other technical products, your automatic door requires periodic maintenance and service. It is essential that you know your automatic door (system) and that you recognize the importance of maintaining it in compliance with applicable standards for safety.

Your local Entrematic Group-authorized representative is familiar with these standards, as well as all applicable local codes and Entrematic Group recommendations for power-operated pedestrian doors. Service and adjustments performed by your Entrematic Group-authorized representative, will ensure safe and proper operation of your automatic door unit.

Electronic equipment reception interference

The equipment complies with the European EMC directive (US market FCC Part 15), provided installed according to Installation and Service manual.

The equipment may generate and use radio frequency energy and if not installed and used properly, it may cause interference to radio, television reception or other radio frequency type systems.

If other equipment does not fully comply with immunity requirements interference may occur.

There is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Relocate the receiver with respect to the equipment.
- Move the receiver away from the equipment.
- Plug the receiver into a different outlet so that equipment and receiver are on different branch circuits.
- Check that protective earth (PE) is connected.

If necessary, the user should consult the dealer or an experienced electronics technician for additional suggestions.

Environmental requirements

Entrematic Group products are equipped with electronics and may also be equipped with batteries containing materials which are hazardous to the environment. Disconnect power before removing electronics and battery and make sure it is disposed of properly according to local regulations (how and where) as was done with the packaging material.

Product liability

According to regulations, the following are the responsibility of the owner or caretaker of the equipment

- that the equipment operates correctly, so that it gives sufficient protection in regard to safety and health
- that the equipment is operated and regularly maintained, inspected and serviced by someone with documented competence in the equipment and in applicable regulations
- that the provided "Service Log Book" and "Site Acceptance Test and Risk Assessment" documents are kept available for maintenance and service records
- that inspection covers the emergency opening function (when applicable)
- that the closing force is appropriate for the door size on fire-approved door systems (when applicable)

Service

Regular inspections by a trained and qualified person, and the frequency of service occasions, should at minimum be made according to national regulations or industry standard, in the absence of a national regulation. This is especially important when the installation concerns a fire-approved door or a door with an emergency-opening function. To extend the life of your investment and ensure safe and reliable operation of the door, we recommend a minimum of 2 visits per year or more, depending on usage and operating conditions. Environmental aspects shall also be considered. Talk to your Entrematic Group representative to learn more about our service offering.

Intended use

The EM PSW250 is an automatic swing door operator developed to make life easier for everyone who can benefit from automatic doors. The EM PSW250 is a low-energy as well as a full power operator using a DC motor and a gear-reduction system to drive an arm system, which opens the door. It is to be installed indoors where it is suitable for almost all types of external and internal swing doors. This widely-used operator can be found on applications ranging from handicapped-access in private homes to high-traffic retail operations.

The door is designed to offer continuous use, a high degree of safety and maximum lifetime. The system is self-adjusting to the effects caused by normal variations in the weather conditions and to minor friction changes caused by e.g. dust and dirt.

For escape in emergency situations the doorset is opened manually.

For installation and maintenance see Installation and Service manual 1007913.

Save these instructions for future reference.

Technical specification

Manufacturer:	Entrematic Group AB
Address:	Lodjursgatan 10, SE-261 44 Landskrona, Sweden
Type:	EM PSW250
Mains power supply:	100-240 V AC +10/-15%, 50/60 Hz
Power consumption:	Max. 300 W
Class of protection:	IP20
Approvals:	Third party approvals from established certification organizations valid for safety in use, see Declaration of Incorporation.

How the EM PSW250 works





The swing door operator EM PSW250 uses a DC motor and a gear-reduction system to drive an arm system which opens the door. Closing power is provided by a motor and a closing spring. A highly sophisticated electronic control unit uses a motor encoder and a microprocessor to control the door's movement.

To activate the operator you can use a manual activator (elbow switch) or an automatic activator (radar device). It is also possible – where local standards allow – to activate the operator by just pushing the door, if Push & Go is selected.

After the door has been activated it will open and stay open for a specified Hold Open Time (HOT). When the HOT has elapsed the door will close.

The EM PSW250 can be set in three or four different modes, depending on programme selector type, see table below.

In fully manual use (or in case of a power failure) the EM PSW250 acts as a normal door closer.

Position	Function
 AUTO Normal position	The door can be opened with the inner and outer manual and/or automatic activators. The electric strike, if fitted, is open.
 OFF	The door is closed. The door cannot be opened with inner and outer activation units. The door is locked if an electromechanical locking device has been fitted. The door can be opened with a key switch (if fitted).
 OPEN	The door is held permanently open by the motor.
 EXIT	Passage from inside only. The door is normally locked if an electromechanical locking device has been fitted. The door can only be opened with the inner activation unit and with a key switch (if fitted).











Regular safety checks

To help you fulfil the national/international requirements and to avoid malfunction and risk for injuries, we have provided the following checklist.



Do not use if repair or adjustment is necessary.

Disconnect supply ⁽¹⁴⁾ when cleaning or other maintenance is to be carried out.

Daily Action		If problem occurs	
Activate your operator and check <i>visually</i> , fastening and any damage of <ul style="list-style-type: none"> • operator ⁽¹⁾ • arm system ⁽²⁾ • cables ⁽³⁾ • hinges ⁽⁵⁾ • door and glass ⁽⁶⁾ 			
Also inspect your operator and check <i>visually</i> for <ul style="list-style-type: none"> • sharp edges on the door leaf and door frame (if any) ⁽⁷⁾ • condition of door seals ⁽⁸⁾ • finger protection ⁽⁹⁾ • and finally that the complete door runs properly and closes slowly in a smooth way 		 	
Set the programme selector to OFF and check that the operator and electromechanical lock (if fitted) work together. Also check that the lock ⁽¹⁰⁾ really secures the door.			
Activate the manual activation units ⁽¹¹⁾ , if any, and walk towards the door. Check that the door has opened appropriately while you pass the entrance/exit. Then proceed with the automatic activation units ⁽¹²⁾ in the same way.			
Check the non-monitored safety sensors ⁽¹³⁾ if any, by standing in the swing path and activate the operator. The door must not hit you when opening nor when closing. If you are unsure of which type of sensor you have, please contact your Entrematic Group representative.			
Escape doors	By law, these tests must be performed regularly by trained personnel.	Set the programme selector in AUTO mode. Push the door manually in escape direction and make sure that no object or function will prevent the door from opening. Also make sure the escape route is free for use.	 
Fire doors		Let the door close after an impulse ensuring nothing prevents the door from closing and locking (if regulations require it).	 

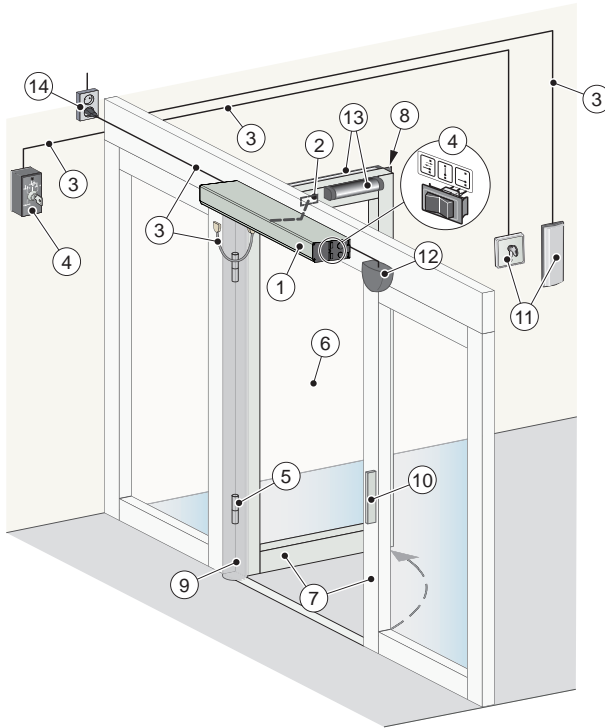


= Take appropriate measures.



= Contact your Entrematic Group representative. For contact information, see last page.

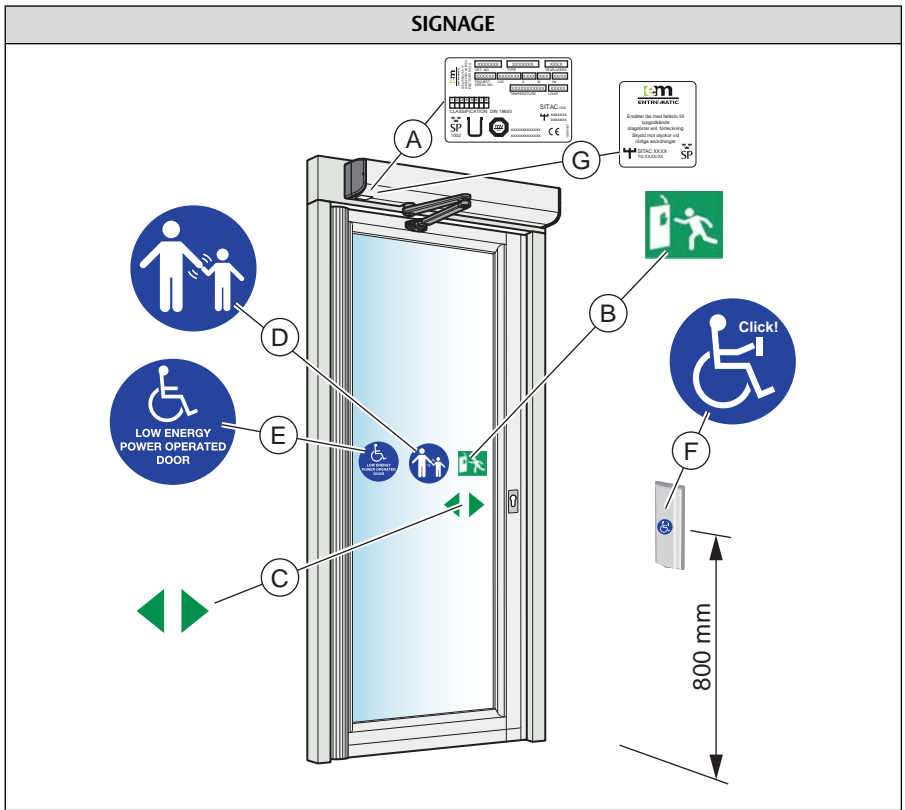
FUNCTION AND VISUAL INSPECTION



CLEANING

The best way to remove dust and dirt from the EM PSW250 is to use water and a soft cloth or a sponge. A gentle detergent may be used. To maintain the quality of the enamel layer, the surfaces should be cleaned once/four months period. The cleaning should be documented. To avoid damages to the profiles the brushes/weather stripping must be vacuum-cleaned weekly.

- Do not expose windows, doors or profiles to alkalis. Both aluminium and glass are sensitive to alkalis.
- Do not clean with high pressure water. Operator, programme selector and sensor may be damaged and water may enter the profiles.
- Do not use polishing detergent.
- Do not scrub with materials like Scotch-brite, as this will cause mechanical damage.



Action		If problem occurs
Check that all required signage is applied and intact. Mandatory indicates that the signage is required by European directives and equivalent national legislation outside the European Union.		
(A)	Product label: Mandatory	
(B)	Emergency break-out: Mandatory, if approved for escape route.	
(C)	Entrematic Group door sticker: Mandatory, if applicable to highlight the presence of the glass (applied to all glass sections that are moving).	
(D)	Supervision of child: Mandatory, if applicable (applied to both sides of the door). To be placed on entrances where the risk analysis shows use by children, elderly and disabled.	
(E)	Operator designed for disabled people: Recommended, if applicable (applied to both sides of the door)	
(F)	Activation by disabled people: Recommended, if applicable	
(G)	SITAC label: Mandatory in SE	

= Contact your Entrematic Group service representative. For contact information, see last page.

General accessories

Your EM PSW250 can be further improved with the following add-ons (please contact your local Entrematic Group dealer for detailed description).

- Position switch ④, see page 8
- Electrical lock ⑩, see page 8
- Key switch ⑪, see page 8
- Elbow switch ⑪, see page 8
- Radar ⑫, see page 8
- Wireless transmitters (not illustrated)
- Access control (not illustrated)
- Door stop (not illustrated)

Safety accessories

Even though the EM PSW250 is installed to comply with all applicable safety regulations, it is possible to enhance safety/comfort with the following add-ons (please contact your local Entrematic Group company for detailed description).

- Safety sensors ⑬, see page 8.
- Finger protection ⑨, see page 8.

Troubleshooting

What's wrong?	Remedies
The door does not open	
The motor does not start	Change the setting of the program selector. (See page 6).
	Check that there are no objects in the detection zone if a sensor is fitted.
	Check the mains switch and fuse in the building.
The motor starts but door(s) will not open	Unlock the mechanical locks.
	Check that nothing is jammed beneath the door.
The door does not close	
The door opens and closes continuously	Change the setting of the program selector. (See page 6).
	Check that there are no objects in the detection zone if a sensor is fitted.
	Check that nothing is jammed beneath the door.
If the problem continues, please contact your Entrematic Group representative.	

Service/Maintenance

Service and adjustments performed by your Entrematic Group-authorized representative will ensure safe and proper operation of your automatic door unit.

Remember to keep “Service Log Book” and “Site Acceptance Test and Risk Assessment” documents available. These are used together.

The table below shows the recommended interval in months, when to replace parts during preventive maintenance.

Part	Part number	Cycles/hour in operation			Abusive Environment
		<10	<100	>100	
		Low traffic	Medium traffic	High traffic	
PUSH Arm Service Kit	330000485 BK/SI	24	12	6	6
PULL arm service kit	330000486 BK/SI	24	12	6	6
Battery	33738753	24	24	24	24
Transmission unit PSW250 Fire (not for use in DE, GB and SE)	330000487F	60	60	60	60
Transmission unit PSW250 Fire PUSH	330000487PUSH	60	60	60	60
Transmission unit PSW250 Fire PULL	330000487PULL	60	60	60	60
CUS7 control unit	331011678	60	60	60	60
EXU-SI	331003554	60	60	60	60
EXU-SA	331003557	60	60	60	60

Other products from Entrematic Group

- Door Systems
- Sliding doors
- Automatic and manual activation units

Declaration of conformity

We
Entrematic Group AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

declare under our sole responsibility that the type of equipment:

EM PSW250

complies with the following directives:

2004/108/EC ElectroMagnetic Compatibility Directive (EMCD)
2006/42/EC Machinery Directive (MD)

Harmonized European standards which have been applied:

EN 60335-1 EN 60950-1 EN 61000-6-2 EN 61000-6-3 EN ISO 13849-1

EN 16005

Other standards or technical specifications, which have been applied:

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Compilation of technical file:

Johnny Persson
Entrematic Group AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

Email: johnny.persson@entrematic.com

Place	Date	Signature	Position
Landskrona	2014-05-19	Johnny Persson	Product Safety & Liability Manager

