

DIP Switch Functions

Default factory settings shown, move as required.

No Automatic Alarm Switch-off	1	Automatic Alarm Switch-off 180 sec
No Automatic Reset	2	Automatic Reset
Immediate Alarm	3	Delayed Alarm(15 sec)
75dB	4	95dB

Terminal Connection

1-3 Potential free relay, 30 V/0.5 A max.	Mains supply 12 V (- 0.5V/+ 1 V) o
4+5 Mains supply, 12 V (max 13 V). For GND do not use d.7 or 9	Battery 9 V (max. 10 V)
6+7 External key switch with reset (ground 7)	Current consumption 12 mA Activated mains operation
8+9 External opening contact (ground 9)	10 µA Activated battery operation
9+10 Reed contact	66 mA Alarm (siren active)

1	Potential free relay, 30 V/0.5 A max. NO
2	Potential free relay, 30 V/0.5 A max. NC
3	Potential free relay, 30 V/0.5 A max. COM
4	Mains supply input + 12 V/DC
5	Mains supply input GND
6	External key switch with reset
7	External key switch with reset ground
8	External opening contact
9	External opening contact ground/Reed contact
10	Reed contact

Operation

Activation Key switch on 0	
Then short pulse (<5 sec) to 1 and back to 0	
Quit Alarm short pulse (<5 sec) to 1 and back to 0	
Permanently Open Function Hold key in position 1 until it beeps twice	
After that turn back to 0	
Single Release Short pulse (< 5 sec) to 1	
After that turn back to 0	

Sounds

Interval	Meaning
3 sec	Door-too-long-open-alarm OR: Metric screws (pic. 6) are loose/missing ¹ (tamper alarm) OR: magnet too far away
permanent	Permanent alarm when door is opened OR: tamper alarm
60 sec	Battery monitoring Voltage drops below 7.5 V
	Permanent opening command

¹ just during initial installation



Disposal
Dispose an obsolete Smart Shield at a collecting point for electronic waste or with your supplier. Dispose the packaging material at a paper collecting point for paper recycling. You may not dispose an obsolete device in the general waste.

Warranty
Within the legal warranty time we intend to repair all defective devices or replace them - whether the defect is caused by material or assembly. The warranty expires after a third-party repair.

Service
In case of a system failure or a defective Smart Shield please contact your dealer.

SMART SHIELD

Protecting Emergency Exits

FOR STANDARD DOORS SG-960-960



Designed to monitor the use of emergency exits and windows, the Smart Shield standard model can be installed flush with, or onto the door frame itself.



SMART SHIELD is also available for:



SG-960-961

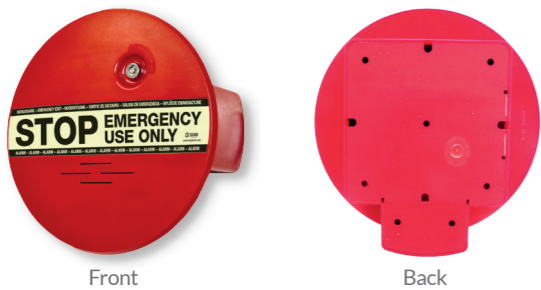


SG-960-950



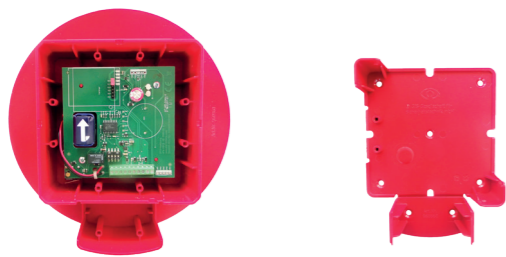
SG-960-955

SMART SHIELD HOUSING



Front

Back



Back Plate removed

Back Plate



STICKER, BATTERY AND KEYS



Fluorescent Stop Sticker SG-960-966

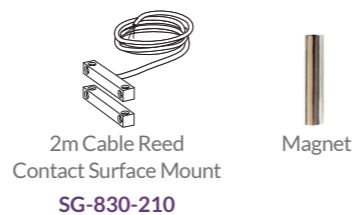


9V Battery

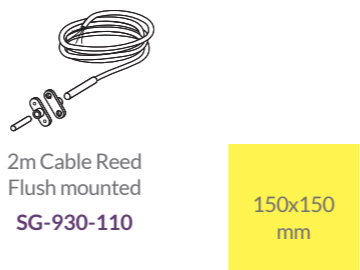


Keys SG-960-973

REED SWITCH MOUNTING



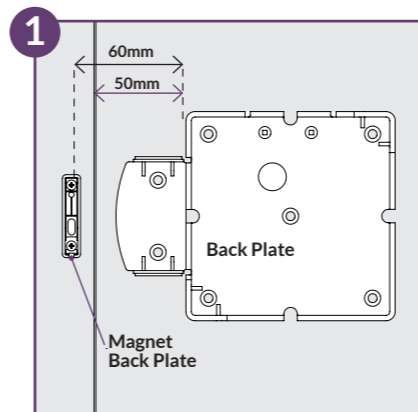
ACCESSORIES (Sold separately)



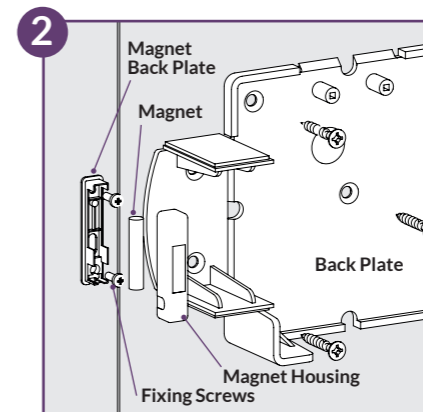
Sticky Pad for Smart Shield mounting without screws SG-960-965

INSTALLATION

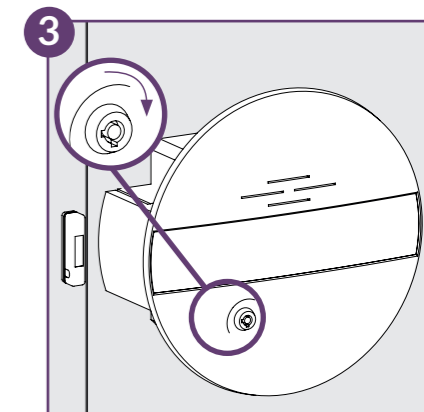
For doors where it is not possible to fix the Smart Shield with screws a sticky pad is available to be ordered separately (see Mounting Accessories).



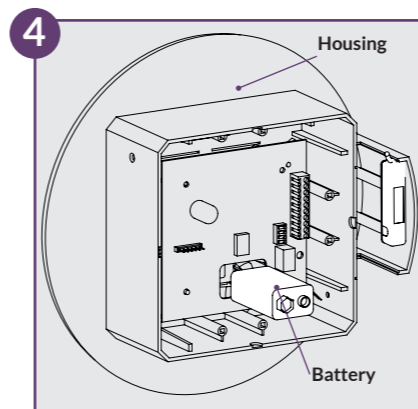
Remove screws from the side of the Smart Shield to release the **Back Plate** and place in the desired position, ensuring the side of the **Back Plate** is 50mm from the edge of the door. Fix **Back Plate** to the door with the screws provided. Position the **Magnet Back Plate** centrally to the **Back Plate**, 60mm away from the side of the **Back Plate** on the door frame.



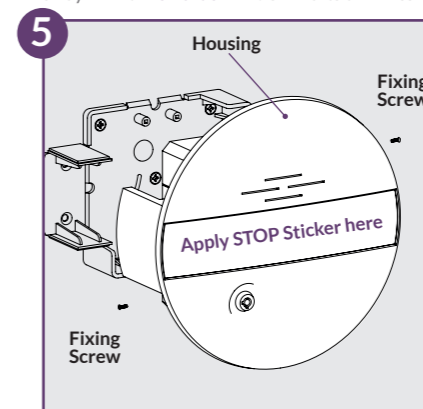
Fix the **Magnet Back Plate** to the door frame with the supplied Fixing Screws. Insert the **Magnet** into the **Magnet Back Plate** and cover with the **Magnet Housing**. Ensure the **Magnet** is opposite the **Reed Contact** within the **Back Plate**. Use **Reed Contact Spacer** as required. The **Reed Contact** is available with a 2m cable, should you wish to mount the **Reed Contact** away from the **Smart Shield**. See Parts & Accessories.



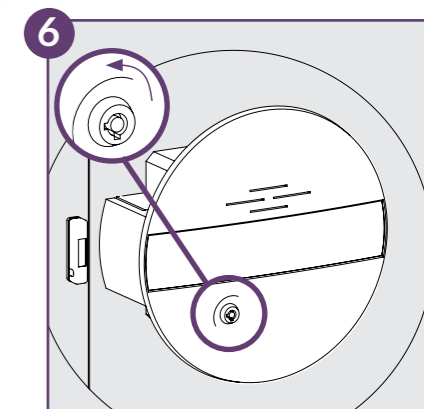
DEACTIVATION: Insert and turn key into position 1, then remove it. The **Smart Shield** is now deactivated. Note: Orientation of the key will depend on the orientation of the **Smart Shield**.



Insert Battery into **Smart Shield housing** and connect. After 5 seconds two short signals sound.



Place the **Housing** on to the **Base Plate**, and fix with the two small Fixing Screws provided. Please tighten the two screws carefully. Place the "STOP EMERGENCY USE ONLY" sticker on the front of the **Smart Shield**.



ACTIVATION: To activate the **Smart Shield**, insert the key in position 1 and turn it to 0. Then, turn the key to 1 and back to 0 in one movement (< 5 sec) and remove the key. **CHANGE BATTERY:** proceed as described in 3.

DIP Switch Functions

Default factory settings shown, move as required.

Switch-off	ON	Function
No Automatic Alarm	1	Automatic Alarm Switch-off 180 sec
No Automatic Reset	2	Automatic Reset
Immediate Alarm	3	Delayed Alarm(15 sec)
75dB	4	95dB

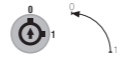
Terminal Connection

1-3 Potential free relay, 30V/0.5 A max.	Mains supply 12 V (- 0.5V/+ 1 V) o
4+5 Mains supply, 12 V (max 13 V).	Battery 9 V (max. 10 V)
For GND do not use d.7 or 9	Current consumption 12 mA Activated mains operation
6+7 External key switch with reset (ground 7)	10 µA Activated battery operation
8+9 External opening contact (ground 9)	66 mA Alarm (siren active)
9+10 Reed contact	

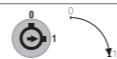
1	Potential free relay, 30 V/0.5 A max. NO
2	Potential free relay, 30 V/0.5 A max. NC
3	Potential free relay, 30 V/0.5 A max. COM
4	Mains supply input + 12 V/DC
5	Mains supply input GND
6	External key switch with reset
7	External key switch with reset ground
8	External opening contact
9	External opening contact ground/Reed contact
10	Reed contact

Operation

Activation
Key switch on 0



Then
short pulse (<5 sec) to 1
and
back to 0



Quit Alarm
short pulse (<5 sec) to 1
and
back to 0



Permanently Open Function
Hold key in position 1 until it beeps twice



After that
turn back to 0



Single Release
Short pulse (< 5 sec) to 1



After that
turn back to 0



Sounds

Interval	Meaning
3 sec	Metric screws (pic. 6) are loose/missing ¹ (tamper alarm) OR: magnet too far away
permanent	Permanent alarm when door is opened OR: tamper alarm
60 sec	Battery monitoring Voltage drops below 7.5 V
	Permanent opening command

¹ just during initial installation



Disposal

Dispose an obsolete Smart Shield at a collecting point for electronic waste or with your supplier. Dispose the packaging material at a paper collecting point for paper recycling. You may not dispose an obsolete device in the general waste.

Warranty

Within the legal warranty time we intend to repair all defective devices or replace them - whether the defect is caused by material or assembly. The warranty expires after a third-party repair.

Service

In case of a system failure or a defective Smart Shield please contact your dealer.

SMART SHIELD

Protecting Emergency Exits

FOR MULTIPOINT LOCKS

SG-960-961



Smart Shield for multipoint locks secures a door with a multipoint lock vertical bar, creating a strong visual link with the door hardware.



SMART SHIELD is also available for:

STANDARD DOORS



SG-960-960

PANIC BARS



SG-960-950

PUSH BARS

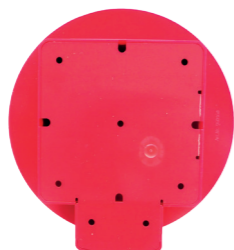


SG-960-955

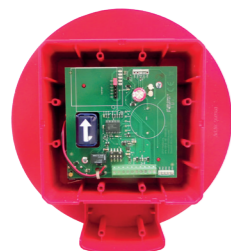
SMART SHIELD HOUSING



Front



Back



Back Plate removed



Back Plate



x 2
Housing Screws



x 7
Back Plate Fixing Screws

STICKER, BATTERY AND KEYS



Fluorescent Stop Sticker SG-960-966

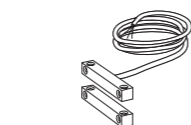


9V Battery



Keys SG-960-973

REED SWITCH MOUNTING



2m Cable Reed Contact Surface Mount SG-830-210



Magnet Foil



x 1 x 5 x 1
Magnet Housing, Spacers & Back Plate



x 2 x 2
Screws

ACCESSORIES (Sold seperately)



2m Cable Reed Flush mounted SG-930-110

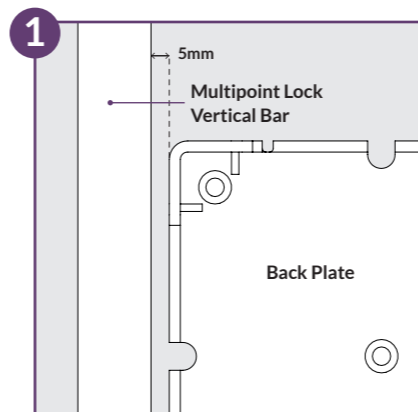
150x150 mm

Sticky Pad for Smart Shield mounting without screws

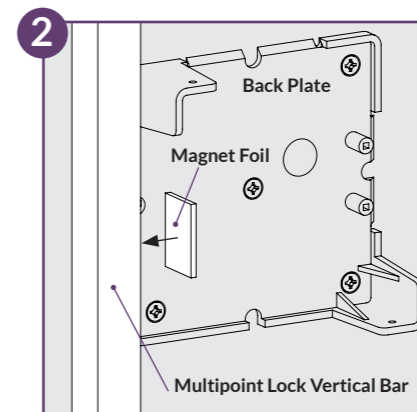
SG-960-965

INSTALLATION

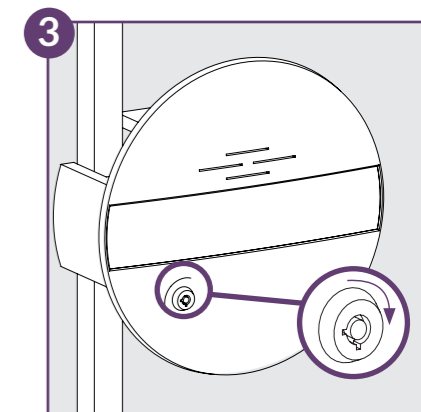
For doors where it is not possible to fix the Smart Shield with screws a sticky pad is available to be ordered seperately (see Mounting Accessories).



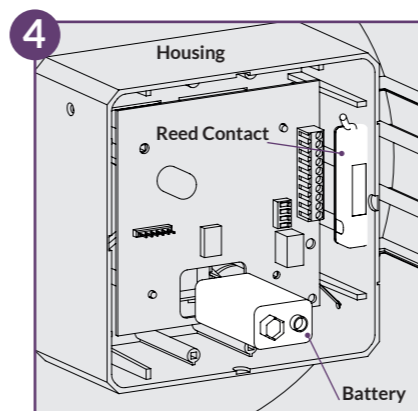
Remove screws from the side of the Smart Shield to release the Back Plate. Place the Back Plate in the desired position, ensuring the side of the Back Plate is 5mm from the edge of the Multipoint Lock Vertical Bar. Fix Back Plate to the door with the screws provided. The Reed Contact is already mounted inside the Smart Shield housing.



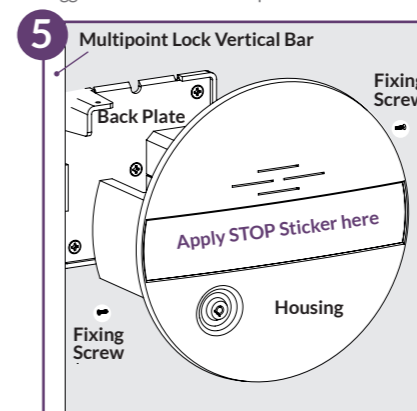
The Reed Contact comes with a 2m cable, which will allow it to be removed from the Smart Shield housing and fixed away from the Smart Shield if necessary. Please cut Reed Contact Cable to desired length and reattach to Terminal Connection 9 & 10. Stick the Magnetic Foil onto the Multipoint Lock Vertical Bar close to the Reed Contact. Make sure the alarm is triggered before the door is open.



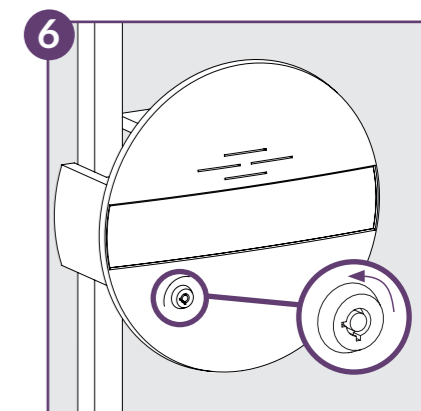
DEACTIVATION: Insert and turn key to position 1, then remove it. The Smart Shield is now deactivated. Note: Orientation of the key will depend on the orientation of the Smart Shield.



Insert Battery into Smart Shield housing and connect. After 5 seconds two short signals sound.



Place the Housing on to the Back Plate, and fix with the two small Fixing Screws provided. Please tighten the two screws carefully. Place the "STOP EMERGENCY USE ONLY" sticker on the front of the Smart Shield.



ACTIVATION: To activate the Smart Shield, insert the key in position 1 and turn it to 0. Then, turn the key to 1 and back to 0 in one movement (< 5 sec) and remove the key.
CHANGE BATTERY: proceed as described in 3.

DIP Switch Functions

Default factory settings shown, move as required.

Permanent Alarm	1	Automatic Alarm Switch-off 180 sec
No Automatic Reset	2	Automatic Reset
Immediate Alarm	3	Delayed Alarm(15 sec)
75dB	4	95dB

Terminal Connection

1-3 Potential free relay, 30V/0.5 A max.	Power supply 12 V (- 0.5V/+ 1 V) 500mA
4+5 Power supply, 12V (max 13V) 500mA	Battery 9 V (max. 10 V)
For GND do not use d.7 or 9	Current consumption 12 mA Activated mains operation 10 µA Activated battery operation 66 mA Alarm (siren active)
6+7 External key switch with reset (ground 7)	
8+9 External opening contact (ground 9)	

1	Potential free relay, 30 V/0.5 A max. NO
2	Potential free relay, 30 V/0.5 A max. NC
3	Potential free relay, 30 V/0.5 A max. COM
4	Power supply input + 12 V/DC
5	Power supply input - 12 V/DC
6	Remote key switch with reset
7	Remote key switch with reset
8	External disarming contact 15 second delay
9	External disarming contact 15 second delay
10	

Operation

Activation

Key switch on 0

Then
short pulse (<5 sec) to 1
and
back to 0

Silence and Reset

short pulse (<5 sec) to 1

and
back to 0

Disarm

Hold key in position 1 until it beeps twice

After that
turn back to 0

Single Disarm

Short pulse (< 5 sec) to 1

After that
turn back to 0

Sounds

Interval	Meaning
3 sec	Screw to fix - housing on base plate is loose/missing ¹ OR: Magnet is not correctly positioned
permanent	Permanent alarm when door is opened OR: tamper alarm
60 sec	Battery monitoring Voltage drops below 7.5 V
	Disarmed confirmation

¹ just during initial installation



Disposal

Dispose an obsolete Smart Shield at a collecting point for electronic waste or with your supplier. Dispose the packaging material at a paper collecting point for paper recycling. You may not dispose an obsolete device in the general waste.

Warranty

Within the legal warranty time we intend to repair all defective devices or replace them - whether the defect is caused by material or assembly. The warranty expires after a third-party repair.

Service

In case of a system failure or a defective Smart Shield please contact your dealer.

SMART SHIELD

Protecting Emergency Exits

FOR PUSH BARS

SG-960-955



If lightly pressed, Smart Shield for push bars triggers a pre-alarm which is silenced upon release. If the push bar is pressed fully, the main alarm resounds.



SMART SHIELD is also available for:

FIRE EXIT DOORS



SG-960-960

PANIC BARS



SG-960-950

MULTIPOINT LOCKS

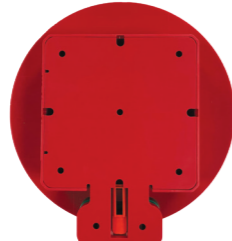


SG-960-961

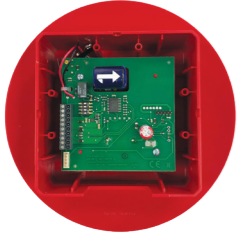
SMART SHIELD HOUSING



Front



Back



Front Housing



Back Plate and Green Trigger Plate



(Vertical arm) (Horizontal arm)

Trigger Kit with Reed Contacts

SG-960-945



Upper Red Plate x 2

SG-951-292

x2

Housing Screws

x7

Back Plate Fixing Screws

STICKER, BATTERY AND KEYS



Fluorescent Stop Sticker SG-960-966



9V Battery



Keys SG-960-973

ACCESSORIES

(Sold separately)



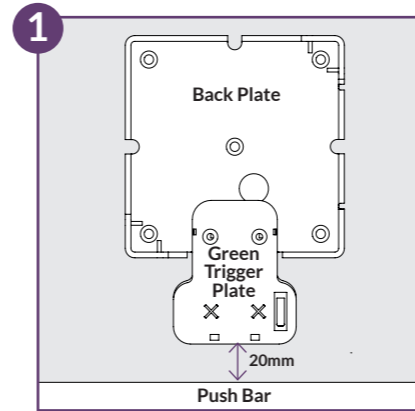
150x150 mm

Sticky Pad for Smart Shield mounting without screws

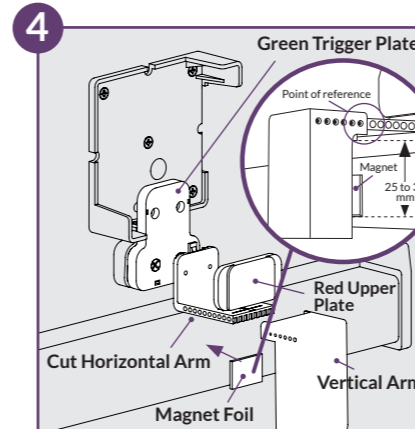
SG-960-965

INSTALLATION

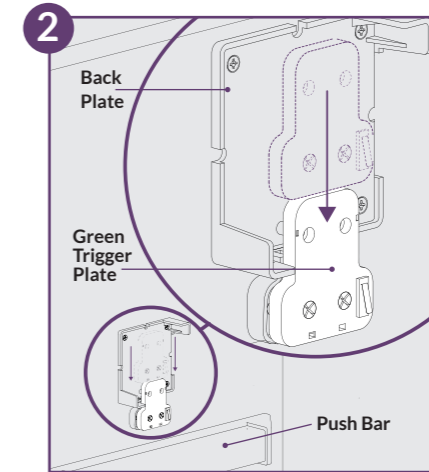
For doors where it is not possible to fix the Smart Shield with screws a sticky pad is available to be ordered separately (see Mounting Accessories).



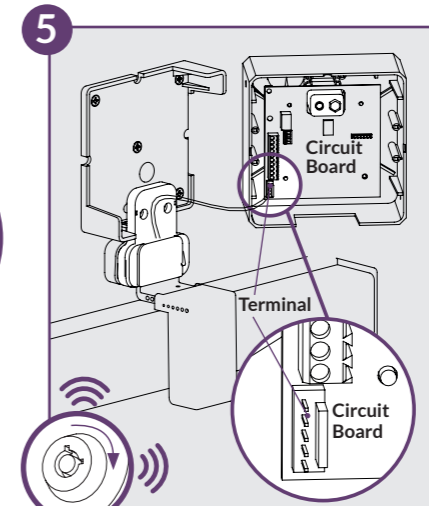
Remove screws from the side of the Smart Shield to release the **Back Plate**. Place the **Back Plate** in the desired position, ensuring the bottom of the **Green Trigger Plate** is 20mm above the **Push Bar**. Fix **Back Plate** to the door with the screws provided. Two screws are positioned behind the **Green Trigger Plate**, which are accessed by sliding the **Green Trigger Plate** upwards.



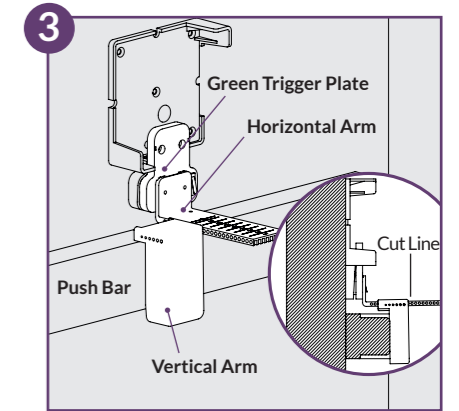
Glue **Magnet Foil** to push bar (as shown). Slide the **Vertical Arm** on to the end of the cut **Horizontal Arm** until it comes to a stop. Route the **Reed Contact Cable** into the grooves under the cut **horizontal arm** and out in front of the **Green Trigger Plate**. Insert the **Red Upper Plate** through cut **Horizontal Arm** and into **Green Trigger Plate**.



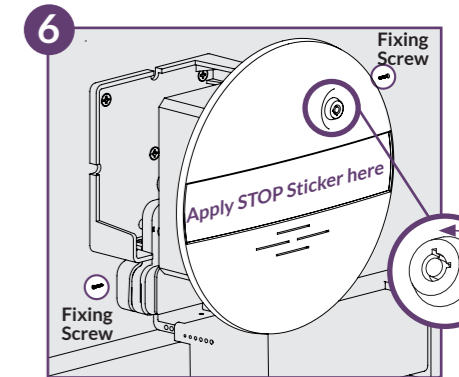
Slide the **Green Trigger Plate** back into the **Back Plate**.



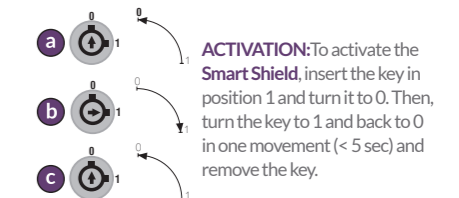
Insert and turn key into position 1, then remove it. Connect the **Battery**. After 5 seconds two short signals sound. Insert the plug coming from the **Reed Contact Cable** on to the terminal located on the **Circuit Board** (as shown). Please refer to this step when **Changing The Battery**.



Hold the **Horizontal Arm** up to the **Green Trigger Plate**, and the **Vertical Arm** next to it, so that it sits in front and touching the push bar (as shown). Mark on the **Horizontal Arm** where it needs to be cut. Cut the **Horizontal Arm**.



Place the **Housing** on to the **Base Plate**, and fix with the two small screws provided. Tighten the two screws carefully. Place the "**STOP EMERGENCY USE ONLY**" sticker on the front of the **Smart Shield**.



ACTIVATION: To activate the **Smart Shield**, insert the key in position 1 and turn it to 0. Then, turn the key to 1 and back to 0 in one movement (< 5 sec) and remove the key.

DIP Switch Functions

Default factory settings shown, move as required.

Permanent Alarm	1	Automatic Alarm Switch-off 180 sec
No Automatic Reset	2	Automatic Reset
Immediate Alarm	3	Delayed Alarm(15 sec)
75dB	4	95dB

Terminal Connection

1-3 Potential free relay, 30V/0.5 A max.	Power supply 12 V (- 0.5V/+ 1 V) 500mA
4+5 Power supply, 12V (max 13V) 500mA	Battery 9 V (max. 10 V)
For GND do not use d.7 or 9	Current consumption 12 mA Activated mains operation 10 µA Activated battery operation 66 mA Alarm (siren active)
6+7 External key switch with reset (ground 7)	
8+9 External opening contact (ground 9)	

1	Potential free relay, 30 V/0.5 A max. NO
2	Potential free relay, 30 V/0.5 A max. NC
3	Potential free relay, 30 V/0.5 A max. COM
4	Power supply input + 12 V/DC
5	Power supply input - 12 V/DC
6	Remote key switch with reset
7	Remote key switch with reset
8	External disarming contact 15 second delay
9	External disarming contact 15 second delay
10	

Operation

Activation

Key switch on 0

Then
short pulse (<5 sec) to 1
and
back to 0

Silence and Reset

short pulse (<5 sec) to 1

and
back to 0

Disarm

Hold key in position 1 until it beeps twice

After that
turn back to 0

Single Disarm

Short pulse (< 5 sec) to 1

After that
turn back to 0

Sounds

Interval	Meaning
3 sec	Screw to fix - housing on base plate is loose/missing ¹ OR: Magnet is not correctly positioned
permanent	Permanent alarm when door is opened OR: tamper alarm
60 sec	Battery monitoring Voltage drops below 7.5 V
	Disarmed confirmation

¹ just during initial installation



Disposal

Dispose an obsolete Smart Shield at a collecting point for electronic waste or with your supplier. Dispose the packaging material at a paper collecting point for paper recycling. You may not dispose an obsolete device in the general waste.

Warranty

Within the legal warranty time we intend to repair all defective devices or replace them - whether the defect is caused by material or assembly. The warranty expires after a third-party repair.

Service

In case of a system failure or a defective Smart Shield please contact your dealer.

SMART SHIELD

Protecting Emergency Exits

FOR PANIC BARS

SG-960-950



If lightly pressed, Smart Shield for panic bars triggers a pre-alarm which is silenced upon release. If the panic bar is pressed fully, the main alarm resounds, the pins of the upper plate break and the vertical arm falls downward.



SMART SHIELD is also available for:

FIRE EXIT DOORS



SG-960-960

PUSH BARS



SG-960-955

MULTIPOINT LOCKS

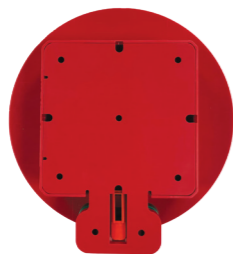


SG-960-961

SMART SHIELD COMPONENTS



Front



Back



Front Housing



Back Plate and Green Trigger Plate



(Vertical arm)



(Horizontal arm)

Trigger Kit with Reed Contacts
SG-960-915



Upper Red Plate x 2
SG-951-292



x2
Housing Screws



x7
Back Plate Fixing Screws

STICKER, BATTERY AND KEYS



Fluorescent Stop Sticker SG-960-966



9V Battery



Keys SG-960-973

ACCESSORIES

(Sold separately)



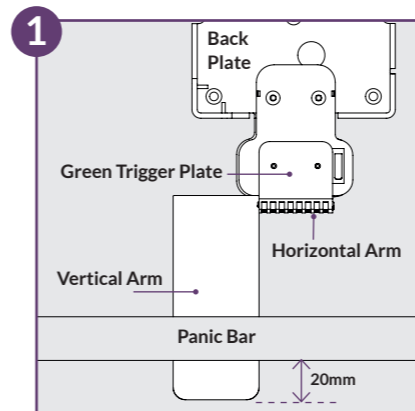
150x150 mm

Sticky Pad for Smart Shield mounting without screws

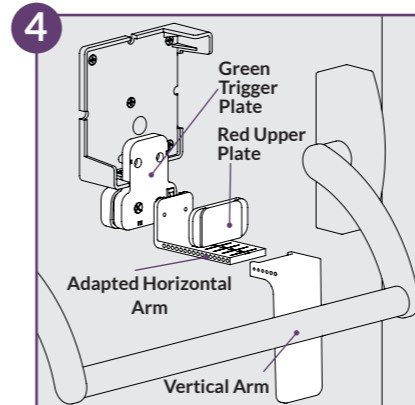
SG-960-965

INSTALLATION

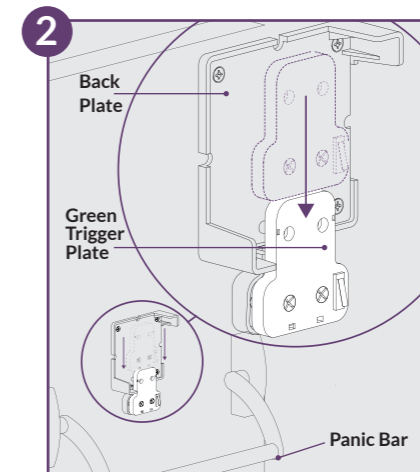
For doors where it is not possible to fix the Smart Shield with screws a sticky pad is available to be ordered separately (see Mounting Accessories).



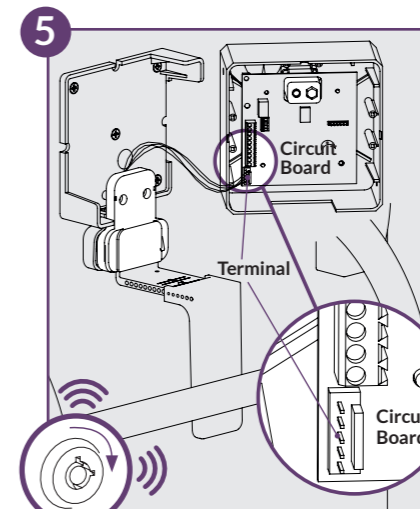
Remove screws from the side of the Smart Shield to release the Back Plate. Place the Back Plate in the desired position, ensuring the Vertical Arm overlaps the Panic Bar by 20mm. It is essential to ensure the Panic Bar can be pushed to its end stop. Fix Back Plate to the door with the seven screws provided. Two screws are positioned behind the Green Trigger Plate, which are accessed by sliding the Green Trigger Plate upwards.



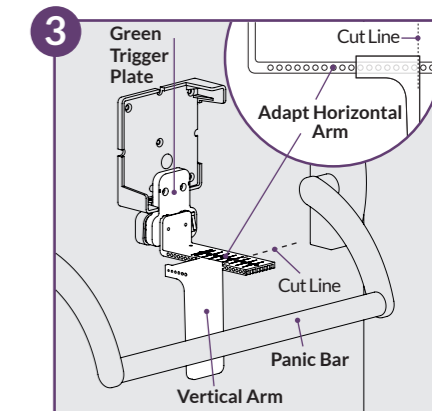
Slide the VERTICAL ARM on to the end of the cut HORIZONTAL ARM until it comes to a stop. Insert the Red Upper Plate through cut HORIZONTAL ARM and into Green Trigger Plate.



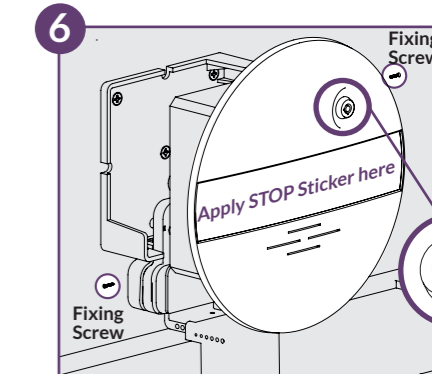
Slide the Green Trigger Plate back into the Back Plate.



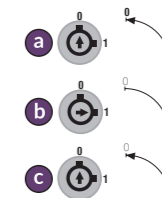
Insert and turn key into position 1, then remove it. Connect the battery. After 5 seconds two short signals sound. Insert the plug coming from the Reed Contact Cable on to the terminal located on the Circuit Board (as shown). Please refer to this step when Changing The Battery



Hold the horizontal arm up to the Green Trigger Plate, and the Vertical Arm next to it, so that it sits behind and touches the Panic Bar (as shown). Mark on the Horizontal Arm where it needs to be cut. Cut the Horizontal Arm.



Place the housing on to the base plate, and fix with the two small screws provided. Tighten the two screws carefully. Place the "STOP EMERGENCY USE ONLY" sticker on the front of the Smart Shield.



ACTIVATION: To activate the Smart Shield, insert the key in position 1 and turn it to 0. Then, turn the key to 1 and back to 0 in one movement (< 5 sec) and remove the key.