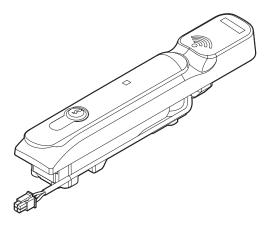
Installation Manual NetBotz[®]

Handle Kit

NBHN1356/NBHN125

990-9868B-001 Publication Date: June 2018





by Schneider Electric

APC by Schneider Electric Legal Disclaimer

The information presented in this manual is not warranted by the APC by Schneider Electric to be authoritative, error free, or complete. This publication is not meant to be a substitute for a detailed operational and site specific development plan. Therefore, APC by Schneider Electric assumes no liability for damages, violations of codes, improper installation, system failures, or any other problems that could arise based on the use of this Publication.

The information contained in this Publication is provided as is and has been prepared solely for the purpose of evaluating data center design and construction. This Publication has been compiled in good faith by APC by Schneider Electric. However, no representation is made or warranty given, either express or implied, as to the completeness or accuracy of the information this Publication contains.

IN NO EVENT SHALL APC BY SCHNEIDER ELECTRIC, OR ANY PARENT, AFFILIATE OR SUBSIDIARY COMPANY OF APC by Schneider Electric OR THEIR RESPECTIVE OFFICERS, DIRECTORS, OR EMPLOYEES BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL, OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS, CONTRACT, REVENUE, DATA, INFORMATION, OR BUSINESS INTERRUPTION) RESULTING FROM, ARISING OUT, OR IN CONNECTION WITH THE USE OF, OR INABILITY TO USE THIS PUBLICATION OR THE CONTENT, EVEN IF APC BY SCHNEIDER ELECTRIC HAS BEEN EXPRESSLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. APC BY SCHNEIDER ELECTRIC RESERVES THE RIGHT TO MAKE CHANGES OR UPDATES WITH RESPECT TO OR IN THE CONTENT OF THE PUBLICATION OR THE FORMAT THEREOF AT ANY TIME WITHOUT NOTICE.

Copyright, intellectual, and all other proprietary rights in the content (including but not limited to software, audio, video, text, and photographs) rests with APC by Schneider Electric or its licensors. All rights in the content not expressly granted herein are reserved. No rights of any kind are licensed or assigned or shall otherwise pass to persons accessing this information.

This Publication shall not be for resale in whole or in part.

Contents

Introduction 1

Rack compatibility	• •		• •	. 1
StruxureWare-certified				. 1
Receiving inspection				. 1
Inventory				. 2
Physical description				. 3
Installation				. 4
Remove the front door handle		4		
Remove the rear door handle		5		
Install the handle kit		6		
Status LED				. 8
Specifications 9				
Two Year Limited Factory Warranty				10
Obtaining service	1	2		
Compliance				13
FCC	1	3		
European Union	1	4		

Introduction

This manual provides instructions to install the APC by Schneider Electric NetBotz 125 kHz Handle Kit (NBHN125) and NetBotz 13.56 MHz Handle Kit (NBHN1356). You can find updates to this manual on **www.apc.com**.

You can connect up to two handles to a compatible NetBotz appliance. Both handles must be the same model, either two 125 kHZ handles (840-9084A) or two 13.56 MHz handles (840-9085A).

NetBotz handles work in conjunction with Rack Access Proximity cards. The same kind of proximity card must be used with both handles.

Rack compatibility

This manual provides installation instructions for the following racks:

- NetShelter[®] SX
- NetShelter SX Colocation rack (AR3200)
- NetShelter SV
- Chatsworth GlobalFrame™ Cabinet

NOTE: For the most recent information on the racks compatible with this product, check the APC by Schneider Electric website **www.apc.com**, or contact your APC by Schneider Electric representative.

StruxureWare-certified

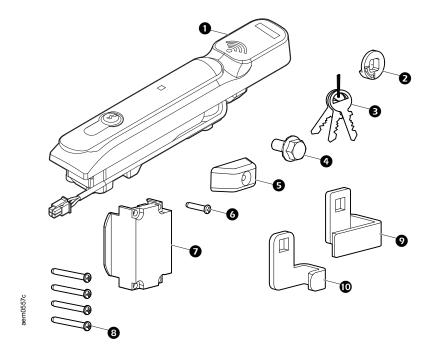
This product is certified for use in StruxureWare for Data Centers[®] systems.

Receiving inspection

Inspect the package and its contents for shipping damage and ensure that the parts included in the shipment match all of the parts listed in the inventory table. Immediately report any shipping damage to the shipping agent. Report missing contents, damage, or other problems to APC by Schneider Electric or your APC by Schneider Electric reseller.

The shipping materials are recyclable. Please save them for later use, or dispose of them appropriately.

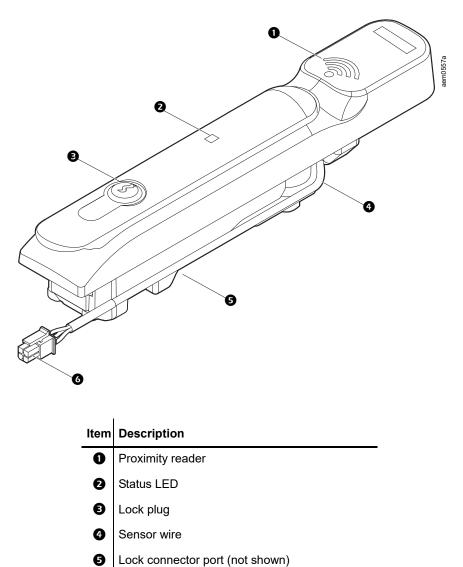
Inventory



ltem	Description	Not shown:
0	Handle (2)	Cable assembly (2) Quick disconnect kit
0	Rotation limiter	• In line RJ45/RJ45 coupler (2)
₿	Keys (3)	 Wire tie 8 x 0.1 x 0.06 in. (20) CAT5 RJ45M/RJ45M patch
4	Cam screw	cable • HID 125 kHz 26 bit proximity
Ø	Top mounting bracket	card with APC by Schneider Electric logo, included with
6	M3x14 Phillips mounting screw	only NBHN125 (2)
Ø	Bottom mounting bracket	
8	M3x25 Phillips mounting screw (4)	
Ø	Long cam, for use with NetShelter SV and NetShelter SX Colocation (AR3200) (2)	
•	Short cam, for use with NetShelter SX (2)	

Physical description

Swing handle with proximity reader



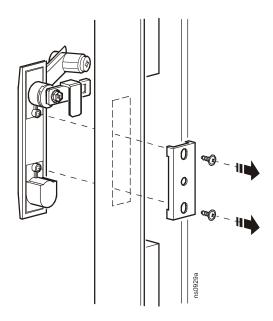
Proximity reader connector

Installation

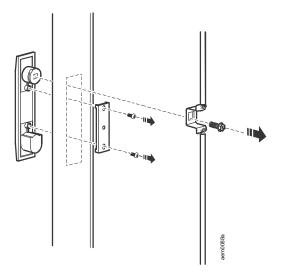
Before installing the Handle Kit, you must remove the front and rear door handles on your rack.

You will need a #1 Phillips screwdriver to install the handle kit.

Remove the front door handle



Remove the rear door handle

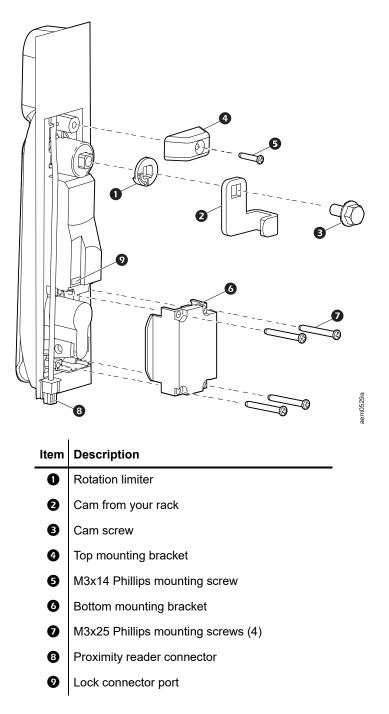


Install the handle kit

- Remove the existing rack handles (see "Remove the front door handle" on page 4 or "Remove the rear door handle" on page 5). Remove the cam from the door handle, and save it for step 5.
- 2. Slide the new handle through the opening in the door.
- 3. With the swing handle closed, position the rotation limiter (●) with the arrows in the lower right corner for right-hand mounting, or in the lower left for left-hand mounting. Ensure the swing handle moves toward the inside of the rack in the open position. Reposition the rotation limiter if necessary.
- Attach the top mounting bracket (④) with the M3x14 Phillips screw (⑤).
- 5. Reattach the cam (2) with the cam screw (3), or use the cam screw to attach the cam provided for your rack.
- Attach the bottom mounting bracket (^⑤) using four M3x25 Phillips screws (^⑦), with the tab on the right for right hand mounting, or on the left for left hand mounting.

NOTE: Make sure the handle wire is outside the mounting bracket and does not interfere with the latch. **Do not crimp the wire during installation.**

- Attach the included cable assembly to the proximity reader connector on the handle wire (③) and the lock connector port (④) on the handle. Route the cable assembly through the rack door.
 NOTE: Only use the cable assembly that came with the Handle Kit.
- 8. At the hinge between the door and the rack, connect the cable assembly to the RJ45/RJ45 coupler, and then connect the CAT5 cable.
- 9. Continue routing the CAT5 cable through the rack.
- 10. Connect the cable to the appropriate port on a compatible NetBotz appliance.



NetBotz Handle Kit Installation Manual

Status LED

The LED activity on the front of the handle (blue, magenta, red) signifies its status.

LED Activity	Status	Action	
Solid blue	Locked The handle is secured, the cam and lock slide are in the locked position.	Normal. Rack is secured.	
Flashing blue/magenta	Unlocked electronically The handle is secured, the cam is in the locked position. The lock slide is in the unlocked position.	Normal. Rack can be accessed.	
Flashing blue	Unlocked manually The handle is open, or the cam is in the unlocked position.	Normal. Rack can be accessed.	
Flashing blue/red	Handle not fully closed The cam is open.	Close handle.	
Flashing blue/red/red	The cam is closed. The lock slide is not positioned correctly.	Possible tampering or mechanical failure. Call technical support.	
Flashing magenta	Lock slide error The lock slide is locked and not responding electronically.	Contact technical support.	
Flashing red/magenta	The lock slide is not responding electronically, and was unlocked manually.		
Solid blue	Unlocked electronically The handle is secured, the cam is in the locked position. The lock slide is in the unlocked position.	Normal. Rack is secured.	

Specifications

Electrical

Laak	
Lock Supply voltage (Vsupply)	12 VDC to 24 VDC
Standby current	50 mA maximum at 12 VDC
Operating current	200mA maximum at 12 VDC (with no external mechanical load)
Stall current	1A maximum at 12 VDC (limited to 2 seconds
Operating transit time	1 second maximum (with power present)
Electronic unlock time	3 seconds minimum
Open collector outputs	Rated for Vsupply maximum load
Proximity reader	
Supply voltage (Vcc)	12 VDC to 24 VDC
Operating current	20mA maximum at 12 VDC (with no external devices)
Transmit frequency	125 kHz FSK
DATA signal voltage	5 VDC
DATA pulse interval time	40 µs
DATA signal delay	2 ms
Handle	
Maximum length of CAT5 sensor cable	100 m (330 ft)
nvironmental	
Operating temperature	0 to 45°C (32 to 113°F)
hysical	
Dimensions (H x W)	212.6 x 37.0 mm (8.37 x 1.45 in)
Shipping dimensions (H x W x D)	78.7 x 222.3 x 139.7 mm (3.1 x 8.75 x 5.5 in)
Weight	0.4 kg (0.9 lb)
Shipping weight	0.7 kg (1.5 lb)

Two Year Limited Factory Warranty

APC by Schneider Electric warrants its products to be free from defects in materials and workmanship for a period of two (2) years excluding the batteries. The APC by Schneider Electric obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or parts thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at **warranty.apc.com**.

APC by Schneider Electric shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user's or any third person's misuse, negligence, improper installation, testing, operation or use of the product contrary to APC by Schneider Electric's recommendations or specifications. Further, APC by Schneider Electric shall not be liable for defects resulting from: 1) unauthorized attempts to repair or modify the product, 2) incorrect or inadequate electrical voltage or connection, 3) inappropriate on site operation conditions, 4) Acts of God, 5) exposure to the elements, or 6) theft. In no event shall APC by Schneider Electric have any liability under this warranty for any product where the serial number has been altered, defaced, or removed.

EXCEPT AS SET FORTH ABOVE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, APPLICABLE TO PRODUCTS SOLD, SERVICED OR FURNISHED UNDER THIS AGREEMENT OR IN CONNECTION HEREWITH.

APC BY SCHNEIDER ELECTRIC DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTION AND FITNESS FOR A PARTICULAR PURPOSE.

APC BY SCHNEIDER ELECTRIC EXPRESS WARRANTIES WILL NOT BE ENLARGED, DIMINISHED, OR AFFECTED BY AND NO OBLIGATION OR LIABILITY WILL ARISE OUT OF, APC BY SCHNEIDER ELECTRIC'S RENDERING OF TECHNICAL OR OTHER ADVICE OR SERVICE IN CONNECTION WITH THE PRODUCTS. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES. THE WARRANTIES SET FORTH ABOVE CONSTITUTE APC BY SCHNEIDER ELECTRIC'S SOLE LIABILITY AND PURCHASER'S EXCLUSIVE REMEDY FOR ANY BREACH OF SUCH WARRANTIES. APC BY SCHNEIDER ELECTRIC WARRANTIES EXTEND ONLY TO ORIGINAL PURCHASER AND ARE NOT EXTENDED TO ANY THIRD PARTIES.

IN NO EVENT SHALL APC BY SCHNEIDER ELECTRIC, ITS OFFICERS, DIRECTORS, AFFILIATES OR EMPLOYEES BE LIABLE FOR ANY FORM OF INDIRECT, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, ARISING OUT OF THE USE, SERVICE OR INSTALLATION OF THE PRODUCTS, WHETHER SUCH DAMAGES ARISE IN CONTRACT OR TORT, IRRESPECTIVE OF FAULT, NEGLIGENCE OR STRICT LIABILITY OR WHETHER APC BY SCHNEIDER ELECTRIC HAS BEEN ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES. SPECIFICALLY, APC BY SCHNEIDER ELECTRIC IS NOT LIABLE FOR ANY COSTS, SUCH AS LOST PROFITS OR REVENUE, WHETHER DIRECT OR INDIRECT, LOSS OF EQUIPMENT, LOSS OF USE OF EQUIPMENT, LOSS OF SOFTWARE, LOSS OF DATA, COSTS OF SUBSTITUANTS, CLAIMS BY THIRD PARTIES, OR OTHERWISE.

NOTHING IN THIS LIMITED WARRANTY SHALL SEEK TO EXCLUDE OR LIMIT APC BY SCHNEIDER ELECTRIC'S LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM ITS NEGLIGENCE OR ITS FRAUDULENT MISREPRESENTATION OF TO THE EXTENT THAT IT CANNOT BE EXCLUDED OR LIMITED BY APPLICABLE LAW.

To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Customers with warranty claims issues may access the APC by Schneider Electric worldwide customer support network through the APC by Schneider Electric Web site: **www.apc.com**. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

Obtaining service

To obtain support for problems with your NetBotz Handle Kit:

- 1. Contact Customer Support using the information on the back cover of this manual. A technician will try to help you solve the problem by phone.
- 2. If you must return the product, the technician will give you a return material authorization (RMA) number. If the warranty has expired, you will be charged for repair or replacement.
- Pack the unit carefully. The warranty does not cover damage sustained in transit. Enclose a letter with your name, address, RMA number and daytime phone number; a copy of the sales receipt; and a check as payment, if applicable.
- 4. Mark the RMA number clearly on the outside of the shipping carton.
- 5. Ship by insured, prepaid carrier to the address provided by the Customer Support technician.

Compliance

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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:

- Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and

2. This device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Warning: The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

European Union

This product is in conformity with the protection requirements of EU Council Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility. APC cannot accept responsibility for any failure to satisfy the protection requirements resulting from an unapproved modification of the product.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 32/ European Standard EN 55032. The limits for Class A equipment were derived for commercial and industrial environments to provide a reasonable protection against interference with licensed communication equipment.

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE

Worldwide Customer Support

Customer support for this product is available at www.apc.com.

© 2018 APC by Schneider Electric. APC, the APC logo, NetBotz, StruxureWare, and NetShelter are owned by Schneider Electric Industries S.A.S. All other trademarks are property of their respective owners.