

Mechanical options

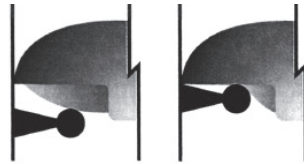
AX Accessible device

The AX device is a UL certified exit device designed to meet the progressive requirements of the California Building Code for accessible openings. This device meets the 5 lbs of operating force requirement called for in chapter 11B-309.4. The AX device also exceeds ANSI/BHMA requirements. Available devices include: AX98/99, AX98/99-F, AX98/9949LBL, AX98/9949-F LBL, AX98/9949-F LBLAFL. Additionally, all AX devices will be shipped with a new UL label clearly stating "Meets California building Code (2013) Sec. 11B-309.4" and an "AX" identifier label on device center case. See images below for reference.



XP Extra performance

For increased security the XP98/99 Rim exit device has a static load force resistance of more than 2,000 pounds, twice that of standard rim exit devices. The two-piece latch bolt forms a 90° latch-to-strike contact. The "smart" latch changes shape when subjected to external forces. This design enables the exit door to withstand an external attack and remain secure. Additionally, the patented latch bolt design provides a greater, longer-lasting latch bolt to strike contact which is not easily affected by the twisting motion of a weakened frame, resulting in an opening that will remain strong.



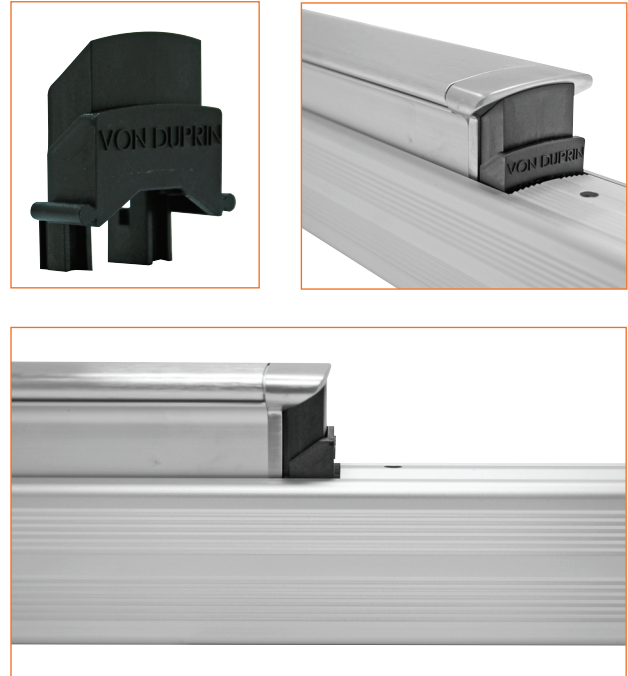
With a door loaded to 250 pounds, XP98/99 requires less than 40 pounds of pressure to open, 25% less than the safety code requires.

XP98/99 is available for panic or fire exit hardware applications. Dimensions, finishes and trim options are equal to the standard 98/99 series rim exit device.

Note: The 909 strike is to be used for all applications. The exception occurs with the use of fire rated double door applications, in this instance the 954 strike is required.

PA Pushpad armor

Built to absorb impact, the pushpad armor stands up to the wear and tear of demanding high-traffic areas. This composite accessory provides added support, while protecting the pushpad on the hinge side of the device. Available for 33A/35A and 98/99 series exit devices. See images below for reference.



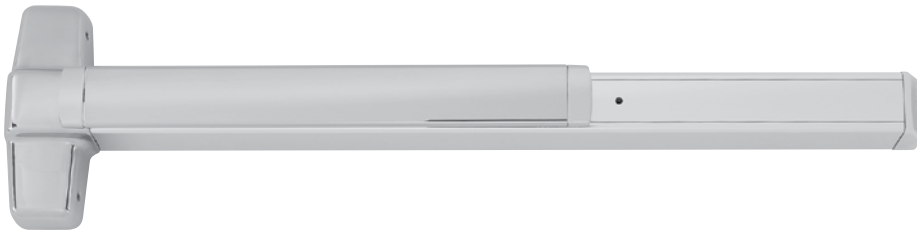
VON DUPRIN®

98/99™
Series

Exit devices



9849/9949 Concealed vertical cable device



9849/9949 Concealed vertical cable device for use on single or double metal doors, UL listed for panic exit hardware. Devices are ANSI A156.3 – 2008 Grade 1. The 9849 device has a smooth mechanism case and the 9949 device has a grooved case. The concealed vertical cable device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch). See opposite page for available outside trim and device functions.

Finishes – US3, US3A, US4, US4A, US10, US26, US26D, US26D-AM Antimicrobial, US28, 313, 315 & 643E. US15 and US32D available with 98 Series only.



Hex key dogging comes standard on 9849/9949 concealed vertical cable devices

Specifications

Device functions	Device ships EO/DT/NL. Field selectable. For TP, K or L remove NL drive screw from device.
Device lengths	2' 2" (610 mm) Door size (shipped less UL label) 3' 2'4" to 3' (714 mm to 914 mm) Door size 4' 2'10" to 4' (864 mm to 1219 mm) Door size
Device centerline from finished floor	39 ⁵ / ₈ " (1006 mm)
Center case dimensions	8" x 2 ³ / ₄ " x 2 ³ / ₈ " (203mm x 70mm x 60mm)
Mechanism case dimensions	2 ¹ / ₄ " x 2 ¹ / ₄ " (57mm x 57mm)
Projection	Pushbar neutral – 3 ¹³ / ₁₆ " (97 mm) Pushbar depressed – 3 ¹ / ₁₆ " (78 mm)
Latch bolt	Deadlocking top & bottom bolt, 1/2" (13mm) throw
Door undercut	3/4" (19mm) maximum (24231516 spacer block kit needed for 3/4" undercut)
Top & bottom latch case	5 ¹³ / ₁₆ " x 1 ¹ / ₄ " x 1 ⁷ / ₁₆ " (147mm x 32mm x 37mm)
Vertical cable	7/32" (6mm) Diameter stainless steel cables
Fasteners & sex bolts (SNB)	Includes screw pack for 1 ³ / ₄ " (44mm) to 2 ¹ / ₄ " (57mm) thick metal doors. Optional 425 SNB available.
Electric options	ALK Alarm exit kit CX Chexit delayed exit E Electric unlatching and locking trim EL Electric latch retraction HD-EL Electric latch retraction w/ hex dogging QEL Quiet electric latch retraction *LX Latchbolt monitor switch RX2 Double pushpad monitor switch RX996L Trim monitor switch RX Pushpad monitor switch RXLC Pushpad monitor switch - low current SS Signal switch WP-RX Waterproof request to exit CON Allegion Connect
Mechanical options	GBK Glass bead kit LBL Less bottom latch AX Accessible device (LBL only) PN Pneumatic latch retraction SEC Security screws SG Safety glow SNB Sex bolts
Dogging feature Dogging option	Hex key dogging standard CD Cylinder dogging SD Special center case dogging LD Less dogging DI Dogging indicator CI Cylinder dogging indicator
Strikes	Top - 249 – Unfinished, Bottom – 349 – Unfinished

*For 98/9949 devices, LX switch monitors trim input or electric dogging of EL/QEL devices. LX switch does not monitor latchbolt condition.

CX
Chexit delayed exit
 • Meets NFPA 101 requirements
 • Self-contained controls, locking, alarm

RX
Pushpad monitor switch
 • Signals use of an opening
 • SPDT switch to monitor pushpad alarm

EL
Electric latch retraction
 • Enables remote unlatching
 • Alternative to manual dogging

ALK
Alarm exit kit
 • Unauthorized opening triggers 85-decibel horn
 • Set in armed or disarmed mode by key

AX
Accessible device
 • UL certified to meet new 5 lb. maximum operating force requirement
 • Exceeds ANSI/BHMA requirements

CON
Allegion Connectors
 • Common connectors to connect various door hardware all the way to the power supply





PN
Pneumatic latch retraction
 • For areas where electrical devices banned
 • Special linkage for mechanical or pneumatic dogging





DI
Dogging indicator
 • Monitor dogging status without a control panel
 • Red indicator light shows visibility to dogging from over 75 feet

CD
Cylinder dogging
 • Replaces hex key dogging
 • Requires standard 1 1/4" mortise cylinder

QEL
Quiet electric latch retraction
 • Bolt retraction via switch
 • Converts exit door to push-pull operation

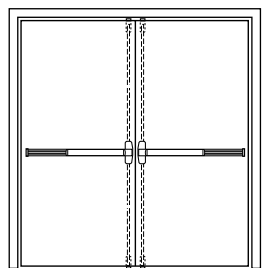
Standard trim

	EO	DT	NL	NL-OP
	 No outside trim Exit only	 Dummy trim Pull when dogged	 Night latch Key retracts latchbolt	 Night latch Key retracts latchbolt optional pull required
Product description	9849EO 9949EO	9849DT 9949DT	9849NL 9949NL	9849NL-OP 9949NL-OP
Trim description	—	990DT	990NL-R/V	110NL-MD
Escutcheon plate size	—	3" x 14 ^{13/16"} x 3 ^{3/32"} (76x360x2mm)	3" x 14 ^{13/16"} x 3 ^{3/32"} (76x360x2mm)	—
Pull center to center	—	5 ^{1/2"} (140mm)	5 ^{1/2"} (140mm)	—
Projection	—	2" (51mm)	2" (51mm)	—
ANSI function	01	02	03	03
Cylinder type	—	—	Rim	Rim
Handing	—	—	—	—
Optional trim	x990EO x996EO	x996K-DT x996L-DT x696DT x697DT	x996K-NL x996L-NL x696NL x697NL	
Optional #425 SNB quantity for device	6	2	2	6

	L	L-NL	L-BE	L-DT
	 Lever Key locks & unlocks	 Lever – night latch Key retracts latchbolt	 Lever – blank escutcheon Always operable (no cylinder)	 Lever dummy trim pull when dogged
Product description	9849L 9949L	9849L-NL 9949L-NL	9849L-BE 9949L-BE	9849L-DT 9949L-DT
Trim description	996L-R/V*	996L-NL-R/V	996L-BE-R/V*	996L-DT
Escutcheon plate size	2 ^{3/4"} x 10 ^{3/4"} x 2 ^{7/32"} (70x273x21mm)	2 ^{3/4"} x 10 ^{3/4"} x 2 ^{7/32"} (70x273x21mm)	2 ^{3/4"} x 10 ^{3/4"} x 2 ^{7/32"} (70x273x21mm)	2 ^{3/4"} x 10 ^{3/4"} x 2 ^{7/32"} (70x273x21mm)
Pull center to center	—	—	—	—
Projection	2 ^{7/8"} (73mm)	2 ^{7/8"} (73mm)	2 ^{7/8"} (73mm)	2 ^{7/8"} (73mm)
ANSI function	08	03	14	02
Cylinder type	Rim	Rim	—	—
Handing	Handed/Reversible	Handed/Reversible	Handed/Reversible	Handed/Reversible
Optional #425 SNB quantity for device	2	2	2	2

* Electrified lever operation available

Standard door opening height	
Feet	Inches
6'8"	80"
7'	84"
8'	96"
9'	108"
10'	120"



Door opening height is measured from finished floor to frame rabbet on door side.

See table on left for standard offering.

Note: Non-standard sizes available with extended lead time. Consult Customer Care for more information 1-877-671-7011.