



98 and 99 Rim exit devices for all types of single and double doors with mullion, UL listed for panic exit hardware. Devices are ANSI A156.3 - 2001 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (special dogging), -2 (double cylinder) or SS (signal switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

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 98/99 Rim exit devices



Specifications

Specifications		
Device functions	Device s	hips EO/DT/NL. Field selectable. For TP, K or L remove
	NL drive	screw from device.
Device lengths	3'	2'4' to 3' (711mm to 914 mm) Door size
J	4'	2'10" to 4' (864 mm to 1219 mm) Door size
Device centerline	3913/16" (1011 mm)
from finished floor	39"/16" (1008 mm) with mullion
Center case	8" x 2 ³ / ₄	" x2³/ ₈ " (203mm x 70mm x 60mm)
dimensions		
Mechanism case	21/4" x 21	/ ₄ " (57mm x 57mm)
dimensions		
Projection	Pushbar	neutral – 3 ¹³ / ₁₆ " (97 mm)
	Pushbar	depressed – 3 ¹ / ₁₆ " (78 mm)
Latch bolt	Deadloc	king, 3/4" (19mm) throw
Fasteners & sex	Includes	screw pack for 1 ³ / ₄ " (44mm) and 2 ¹ / ₄ " (57mm) thick
bolts (SNB)		wood doors. Optional 425 SNB available,
	see page	9 for quantities.
Electric options	LX	Latchbolt monitor switch
	RX	Pushpad monitor switch
	RX2	Double pushpad monitor switch
	E	Electric locking & unlocking trim
	EL	Electric latch retraction
	QEL	Quiet electric latch retraction
	SS CX	Signal switch
	ALK	Chexit delayed exit Alarm exit kit
	WP-RX	Waterproof request to exit
	CON	Allegion Connect
Mechanical	-2	Double cylinder
options	AX	Accessible device
	GBK	Glass bead kit
	PN	Pneumatic latch retraction
	XP	Extra protection
	SNB	Sex bolts
	SEC	Security screws
Dogging feature	Hex key	dogging standard
Dogging options	CD	Cylinder dogging
	SD	Special center case dogging
	LD	Less dogging
	DI	Dogging indicator
2.1	CI	Cylinder dogging indicator
Strikes	299 – Di	ull black

Extra protection

- 90° latch-tostrike contact
- Force resistance of 2,000+ lbs.

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

Pushpad monitor switch

- · Signals use of an opening
- SPDT switch to monitor pushpad

CX

Chexit delayed exit

- · Meets NFPA 101 requirements
- Self-contained controls, locking, alarm

Accessible device

- · UL certified to meet new 5 lb. maximum operating force requirement
- Exceeds ANSI/ ВНМА requirements

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

PN

Pneumatic latch retraction

- For areas where electrical devices banned
- Special linkage for mechanical or pneumatic dogging

CON

Allegion Connectors

 Common connectors to connect various door hardware all the way to the power supply

Standard trim				
	No outside trim Exit only	Dummy trim Pull when dogged	Night latch Key retracts latchbolt	NL-OP Night latch Key retracts latchbolt optional pull required
Product description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim description	_	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon plate size	_	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	3" x 14 ¹³ / ₁₆ " x 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

		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	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-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 ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)
Pull center to center	_	_	_	_
Projection	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

Notes

98-F/99-F Rim exit device



98-F and 99-F Rim fire exit devices for all types of single doors up to 4' \times 10' (1219mm \times 3048mm) or 8' \times 10' (2438mm \times 3048mm) double doors with 9954 or 9854 mullion, UL listed for fire exit hardware. See page 72 for detailed information on UL listed fire exit hardware label and door opening size information. Devices are ANSI A156.3 – 2001 Grade 1. The 98-F device has a smooth mechanism case and the 99-F device has a grooved case. The rim device is non-handed except when the following device options are used: -2 (double cylinder) 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.



Specifications

Specifications		
Device functions	Device ships EO/DT/ NL drive screw from	NL. Field selectable. For TP, K or L remove device.
Device lengths	3' 2'4' to 3' (7	11mm to 914 mm) Door size
Device tengths		(864 mm to 1219 mm) Door size
Device centerline	39 ¹³ / ₁₆ " (1011 mm)	(00 1 11111 to 1213 11111) Boot Size
from finished floor	l ' '	
	39"/16" (1008 mm) w	
Center case	8" x 2 ³ / ₄ " x2 ³ / ₈ " (203	mm x 70mm x 60mm)
dimensions		
Mechanism case	21/4" x 21/4" (57mm x	57mm)
dimensions		
Projection	Pushbar neutral – 313	/ ₁₆ " (97 mm)
/	Pushbar depressed -	` ,
Latab balt	<u>`</u>	<u>`</u>
Latch bolt	Deadlocking, 3/4" (19	<u>`</u>
Fasteners & sex	•	for 1³/₄" (44mm) and 2¹/₄" (57mm) thick
bolts (SNB)	metal or wood doors	. Optional 425 SNB available for metal
		B required on wood doors without SLM
	blocking. See page 11	for quantities.
Electric options	LX Latchbolt r	nonitor switch
·	RX Pushpad m	nonitor switch
	RX2 Double pus	hpad monitor switch
		king & unlocking trim
		ch retraction
	OEL Quiet elect	ric latch retraction
	SS Signal swit	
	CX Chexit dela	
	ALK Alarm exit I	•
		frequest to exit
	CON Allegion Co	•
Mechanical	-2 Double cyli	
options	AX Accessible	
options	GBK Glass bead	
		latch retraction
	XP Extra prote SNB Sex bolts	CHOH
		rows
	SEC Security sc	
		ninate Material Blocking
Dogging option	No mechanical dogging. EL and QEL option available	
Strikes	299F – Dull black, 499F with mullions	

XP

Extra protection

- 90° latch-tostrike contact
- Force resistance of 2,000+ lbs.

RX

Pushpad monitor switch

- Signals use of an opening
- SPDT switch to monitor pushpad

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

QEL

Quiet electric latch retraction

- Bolt retraction via switch
- Converts exit door to push-pull operation

CX

Chexit delayed exit

- Meets NFPA 101 requirements
- Self-contained controls, locking, alarm

AX

Accessible device

- UL certified to meet new 5 lb. maximum operating force requirement
- Exceeds ANSI/ BHMA requirements

SG

Safety glow

- Shows exit door location in darkness or smoke
- Developed to meet MEA standards

PN

Pneumatic latch retraction

- For areas where electrical devices banned
- Special linkage for mechanical or pneumatic dogging

CON

Allegion Connectors

 Common connectors to connect various door hardware all the way to the power supply

Standard trim				
	No outside trim Exit only	Dummy trim Pull when dogged (not recommended for fire device)	NL Night latch Key retracts latchbolt	NL-OP Night latch Key retracts latchbolt optional pull required
Product description	98EO-F 99EO-F	98DT-F 99DT-F	98NL-F 99NL-F	98NL-OP-F 99NL-OP-F
Trim description	_	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon plate size	_	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	_
Pull center to center	_	5½" (140mm)	5½" (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	
#425 SNB optional - HMD req. WD w/o SLM pkg.	2	2	2	2
#825 SNB req. WD w/o SLM pkg.	2 (if using trim)	2	2	2
#425 SNB req. w/ 499F	2	2	2	2

	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 (not recommended for fire device)
Product description	98L-F 99L-F	98L-NL-F 99L-NL-F	98L-BE-F 99L-BE-F	98L-DT-F 99L-DT-F
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 ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)
Pull center to center	_	_	_	_
Projection	2 ⁷ / ₈ " (73mm)			
ANSI function	08	03	14	02
Cylinder type	Rim	Rim	_	_
Handing	Handed/Reversible	Handed/Reversible	Handed/Reversible	Handed/Reversible
#425 SNB optional - HMD req. WD w/o SLM pkg.	2	2	2	2
#825 SNB req. WD w/o SLM pkg.	2 (if using trim)	2	2	2
#425 SNB req. w/ 499F	2	2	2	2

^{*} Electrified lever operation available

98/99 Electrical options

EL Electric latch retraction

The EL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt, either for momentary unlatching, or for extended periods of time. The EL feature is an alternative to manual dogging.

If manual hex-key dogging is required, specify HD-EL. If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-EL. SD-EL is not available on the 9875 or 9975 devices.

EL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an **automatic fire alarm system**.

UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS914 power supply.

The PS914 with the 9002RS option card is the minimum option card required. Other option cards available for other functions, see PS914 power supply for additional information.

Solenoid specifications:

Continuous duty – 24 VDC Current inrush – 16 Amps Current holding – 0.3 Amps

Solenoid resistance:

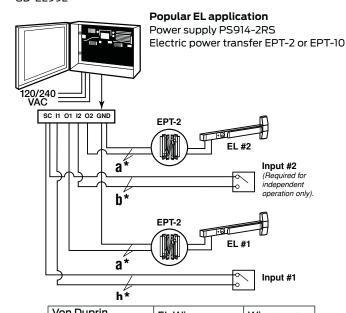
-grn-yel 1.2 – 2.2 OHMS -grn-org 100 – 150 OHMS

To order, specify:

a*

b*

Standard – use prefix EL, example EL99L. Hex Key dogging – Use prefix HD-EL, example HD-EL99L special center case dogging – Use prefix SD-EL, example SD-EL99L



exit device	EL Wire length (feet) ¹	Wire gauge (AWG)
	0-500	12
EL 98/99 Rim	0-300	14
	0-200	16
	0-250	12
All other 98/99EL	0-150	14
device types	0-100	16
Control Switch	0-1200	18

Wire lengths include an EPT, Door loop, electric hinge or pivot and are measured one way between the PS914/option board and the device.

QEL Quiet electric latch retraction

The QEL feature allows for the remote unlatching of exit devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit door to push-pull operation. Different than the popular EL, the QEL quiet operation is achieved using an electric drive motor which retracts the latch bolt either momentary unlatching or for extended periods of time. This feature is an alternative to manual dogging.

If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify

SD-QEL. SD-QEL is not available on the 9875 or 9975 devices.

QEL devices are also useful with automatic door operators, and may be applied to fire-rated applications when under the control of an automatic fire alarm system.

UL approved for Class II circuit applications.

The QEL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS902 or 914 power supply.

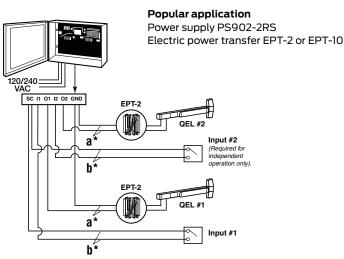
The PS902/914 with the 2RS, 4RL or 4R board is the minimum required. Other option boards available for other functions, see PS902/914 power supply for additional information.

QEL Electrical load		
Voltage	24VDC	
Current	1.4 A Inrush (0.5 sec.) 0.14 A Holding 2.0 A Calibrate (3 sec. one time)	

To order, specify:

a*

Standard — use prefix QEL, example QEL99L. Special center case dogging — use prefix SD-QEL, example SD-QEL99L



Distance (one-way)	Wire gauge
200′	18 AWG
320´	16 AWG
500´	14 AWG
800´	12 AWG

b*	Wire selection	Switch wire size
	1200 ft. Max.	18 gauge standard

^{2.} Table is applicable to devices that have shipped after August 2012.