

Regal® OPTIMA®

Sensor Operated Flushometers

110 ES-S 111 ES-S

Description

Exposed, Sensor Operated Regal® Model Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

► Flush Cycle

☐ Model 110 ES-S Water Saver (3.5 gpf/13.2 Lpf)
☐ Model 111 ES-S Low Consumption (1.6 gpf/6.0 Lpf)

Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:

- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- Courtesy Flush™ Override Button
- Non-Hold-Open Integral Solenoid Operator
- Two (2) Chrome Plated Wall Cover Plates (for 2-gang Electrical Box) with Vandal Resistant Screws
- 1" I.P.S. Screwdriver Bak-Chek™ Angle Stop
- Vandal Resistant Stop Cap
- · Adjustable Tailpiece
- Vacuum Breaker Flush Connection
- Spud Coupling and Flange for 11/2" Top Spud
- · High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Low Consumption flush accuracy controlled by Para-Flo™ Technology
- Diaphragm, Stop Seat and Vacuum Breaker to be Molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037, ANSI/ASME A112.19.6 and Military Specification V-29193. Installation conforms to ADA requirements.

Variations

□ TP	Trap Primer	
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☐ YBYC Sweat Solder Adapter Kit with Cast Wall Flange w/Set Screw

Accessories

☐ EL-154 Transformer (120 VAC/24 VAC 50 VA)

☐ EL-342 Transformer (240 VAC/24 VAC 50 VA)

☐ EL-485-A Flushometer Electrical Box Positioning and Support Kit

See Accessories Section and OPTIMA Accessories Section of the Sloan catalog for details on these and other OPTIMA Flushometer variations.





[®] Certified



Listed by I.A.P.M.O.



This space for Architect/Engineer approval		
Job Name	Date	
Model Specified	Quantity	
Variations Specified		
Customer/Wholesaler		
Contractor		
Architect		





Automatic

Sloan OPTIMA® equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There are no handles to trip or buttons to push. The Flushometer operates by means of an infrared sensor that adapts to its surrounding. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture.

Hygienic

User makes no physical contact with the Flushometer surface except to initiate the Override Button when required. Helps control the spread of infectious diseases. Twenty-four Hour Sentinel Flush keeps fixture fresh during periods of nonuse.

Economical

Automatic operation provides water usage savings over other flushing devices. Reduces maintenance and operation costs.

Practical

Solid state electronic circuitry assures years of dependable, trouble-free operation. The operational components of the Flushometer are identical to a handle operated Regal® Flushometer.

Warranty

3 year (limited)

Made in the U.S.A

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ELECTRICAL SPECIFICATIONS

Control Circuit

Solid State 24 VAC Input 24 VAC Output 8 Second Arming Delay 3 Second Flush Delay 24 Hour Sentinel Flush

OPTIMA Sensor Range

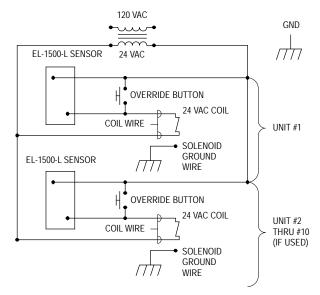
Nominal 22" - 42" (559 mm -1067 mm) Self-adaptive Window: ± 10" (254 mm)

Solenoid Operator 24 VAC, 50/60 Hz

Transformer Sloan Part #EL-154 120 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

Sloan Part #EL-342 240 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

WIRING DIAGRAM



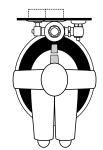
One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

1. A continuous, invisible light beam is emitted from the OPTIMA Sensor.



2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.

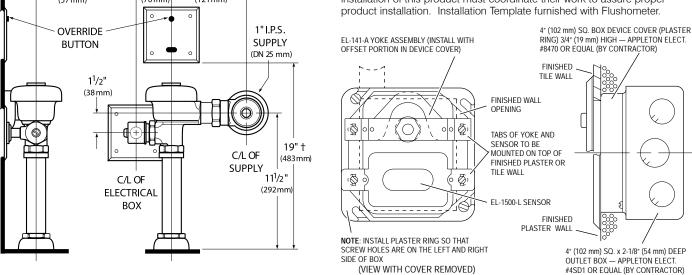


3. When the user steps away from the OPTIMA Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "onetime" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.

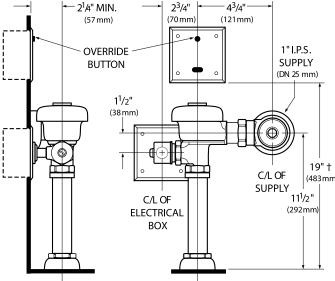


ELECTRICAL BOX INSTALLATION SENSOR LOCATION AND POSITIONING IS CRITICAL

Failure to properly position the electrical boxes to the plumbing rough-in will result in improper installation and impair product performance. All tradesmen (plumbers, electricians, tile setters, etc.) involved with the installation of this product must coordinate their work to assure proper



To ensure a perfect rough-in, Sloan recommends the use of the EL-485-A Flushometer Electrical Box Positioning and Support Kit. Specify and order the EL 485-A Kit separately. Consult factory for installation details.



Position of Sensor Box can be raised or lowered 1" (25 mm) if in conflict with Handicap Grab Bars.

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