

► **Code Number**

24601311

► **Description**

Complete System with concealed, sensor activated, Royal® Optima® ES-S Flushometer & Vitreous china wall hung fixture.

► **Flush Cycle**

1.28 gpf/4.8 Lpf

► **Flushometer Specification**

- Non-Hold-Open Integral Solenoid Operator
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with Hex Coupling Nut and Spud Coupling for 1½" Rear Spud
- Fixed Metering Bypass and no external volume adjustment to ensure water conservation
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- 1" I.P.S screwdriver Bak-Chek® angle stop
- Courtesy Flush® Override Button
- High copper, low zinc brass castings for dezincification resistance
- "Walk By" Delay of Eight (8) Seconds Prevents Unintentional Flushes
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance

Valve Body, 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 A112.19.2. Installation conforms to ADA requirements.

► **Transformer Accessories**

- EL-154 Transformer (120 VAC/24 VAC 50 VA)
- EL-342 Transformer (240 VAC/24 VAC 50 VA)

► **Fixture Specification**

- Elongated Bowl
- Siphon jet flushing action achieves 1000g Map score
- Water spot area 11-1/4" x 8-1/2"
- ASME A112.19.2/CSA B45.1
- 1 1/2" I.P.S. rear spud inlet

► **Recommended Seats**

Bemis - 1955CT/1955SSCT & 2155CT/2155SSCT

► **Plumbing System Requirements**

Maximum Static Pressure: 80 PSI

Minimum Flowing Pressure: 25 PSI

Minimum Flow Rate: 18 GPM

► **Note**

All information contained in this document subject to change without written notice

All vitreous china dimensions shown in these drawings are nominal and not to scale. Dimensions can vary within the tolerances established in the governing ASME A112.19/CSA B45.1 standard. It is important to consider this when planning rough-in and plumbing layouts.



► **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. Wall Box allows for vandal-proof concealed installation where pipe chase is not available or pipe space is limited.

► **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.

► **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, troublefree operation. The operational components of the Flushometer are identical to a handle activated Royal® Flushometer, proven by over 100 years of experience.

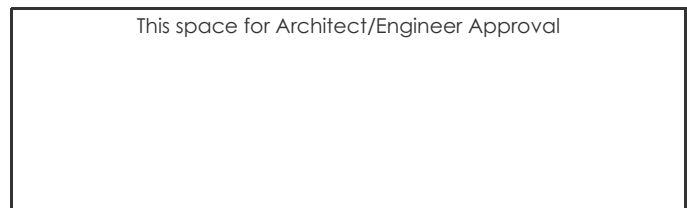
► **Compliance & Certifications**

CEC Compliant



CALGreen

This space for Architect/Engineer Approval



► Variations

2-10 3/4 LDIM

► Solenoid Operator

24 VAC, 50/60 Hz

► OPTIMA Sensor Range

Nominal 22" – 42" (559 mm – 1067 mm)

Self-adaptive Window ± 10" (254 mm)

► Control Circuit

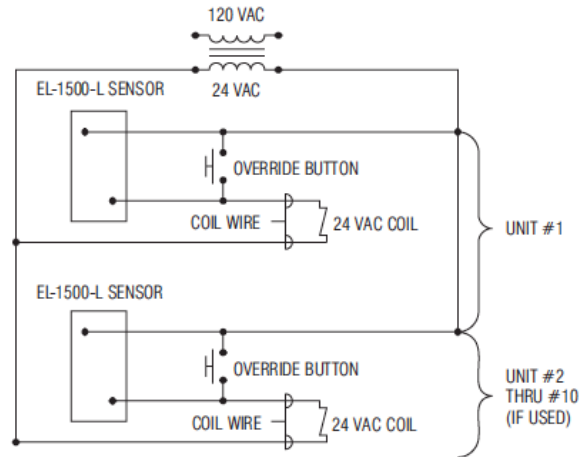
Solid State

24 VAC Input/Output

8 Second Arming Delay

3 Second Flush Delay

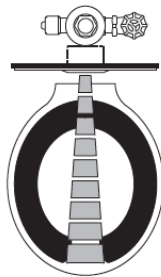
24 Hour Sentinel Flush



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

► OPERATION

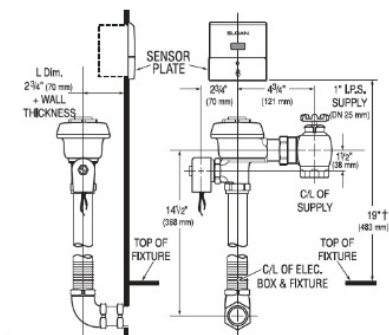
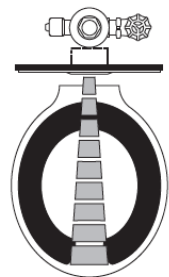
1. A continuous, invisible light beam is emitted from the OPTIMA Sensor.



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 "one-time" 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.



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

