Royal® Model OPTIMA® Sensor Activated Flushometers
197 WB ES-S HEU

▶ Code Number
3453252

▶ Description
- Concealed, Sensor Activated, Royal® Model Urinal Flushometer, enclosed behind a 13" x 17" Wall Box with Stainless Steel Access Panel, for ¾" top spud urinals.

▶ Flush Cycle
☐ 0.5 gpf/1.9 Lpf

☐ 0.25 gpf (1.0 Lpf)

☐ 0.125 gpf/0.5 Lpf

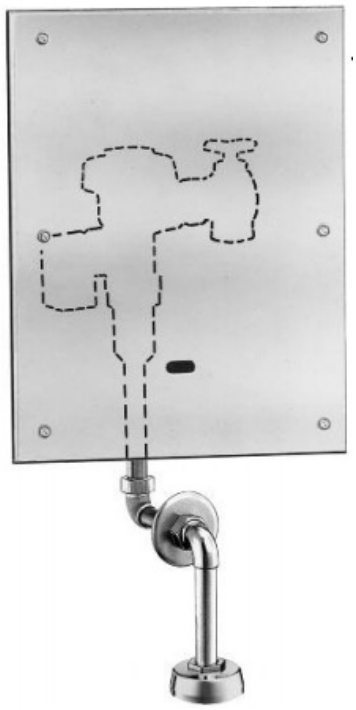
▶ Specifications
- Chrome Plated Exposed Flushometer Parts
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance
- 3/4" I.P.S. Wheel Handle Bak-Chek® Angle Stop
- 13 1/2" x 13 1/2" Wall Box with Stainless Steel Access Panel and Vandal Resistant Screws
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Quiet, Concealed, Diaphragm Type, Rough Brass Urinal Flushometer with the following features:
- PERMEX® Synthetic Rubber Diaphragm with Dual Linear Filtered Bypass
- High back pressure Vacuum Breaker with flush connection
- Spud Coupling and flanges for ¾" exposed top spud
- 13" x 17" EASY ACCESS® Wall Box with Stainless Steel Access Panel and Vandal Resistant Screws
- Flush accuracy controlled by CID® technology
- 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 and ANSI/ASME 112.19.2.

▶ Wall Box Specifications
- EASY ACCESS® Wall Box Assembly — Part #EL-192-A
- Frame: 13" x 17" x 4" (330 mm x 432 mm x 102 mm) #16 Gauge Steel
- Cover (Access Panel): 14½" x 18½" (368 mm x 470 mm) #15 Gauge #304 Stainless Steel, #4 Finish
- Screws: (6) #8-32 x ¾" Drilled Spanner Head — Spanner Bit Provided

▶ Control Circuit
- Solid State
- 8 Second Arming Delay
- 24 VAC Input
- 24 VAC Output

▶ Solenoid Operator
24 VAC, 50/60 Hz

▶ Transformers
- Sloan Part #EL-154 120 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz



▶ 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.

▶ Automatic Operation
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.

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

▶ 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 . 24-Hour Sentinel Flush keeps fixture fresh during periods of nonuse.

▶ Compliance & Certifications

This space for Architect/Engineer Approval

▶ ROUGH-IN

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.

► Sensor Range

Nominal 15"-30" (381 mm-762 mm), adjustable ± 8" (203 mm)

► L Dimension

Specify the "L" Dimension for the proper length of the Handle Assembly and Flush Connection. The "L" Dimension is equal to the Wall Thickness (to the nearest whole inch) plus 2¾" (70 mm).

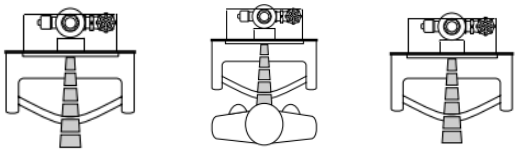
► Accessories (Sold Separately)

☐ EL-154 120 VAC/24 VAC, 50/60 Hz (50 VA) - Box Mount (will operate up to 3 faucets)

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

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

► OPERATION



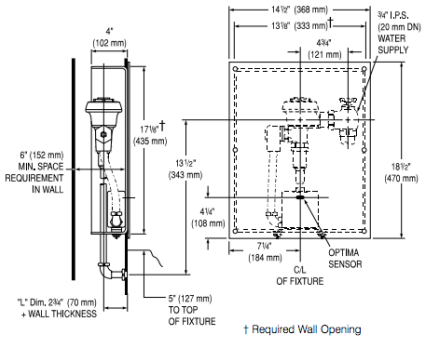
1. A continuous, invisible light beam is emitted from the OPTIMA Sensor.

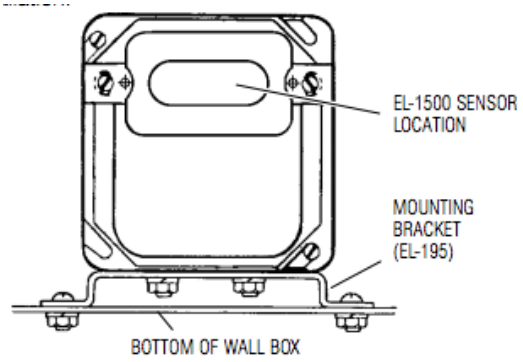
3. When the user steps away from the OPTIMA Sensor, the circuit immediately initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.

2. As the user enters the beam's effective range (15" to 30") 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.

► WIRING DIAGRAM

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





†† Required Wall Opening

► ELECTRICAL BOX INSTALLATION

SENSOR LOCATION AND POSITIONING IS CRITICAL

Adjust the Mounting Bracket so that the Sensor sits flush against the Cover Plate.

Refer to the instructions packaged with the Flushometer for additional installation information.