Sloan® Model OPTIMA® Sensor Activated Flushometers SLOAN 152-1.6 DFB 2-10 3/4 LDIM WB ESS

▶ Code Number
3771604

▶ Description
Concealed, Sensor Operated Water Closet Flushometer, enclosed behind a 13" x 17" Wall Box with Stainless Steel Access Panel, for floor mounted or wall hung rear spud bowls.

▶ Flush Cycle
Model 152-1.6 WB ES-S Low Consumption (1.6 gpf/6.0 Lpf)

▶ Specifications
Quiet, Concealed, Diaphragm Type, Rough Brass Closet Flushometer with the following features:

- 1" I.P.S. Wheel Handle Bak-Chek® Angle Stop
- Chrome Plated Exposed Flushometer Parts
- Spud Coupling for 1½" Concealed Back Spud
- Vacuum Breaker with Flush Connection
- Low Consumption flush accuracy
- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action
- User friendly three (3) second Flush Delay
- No External Volume Adjustment to Ensure Water Conservation
- Courtesy Flush® Override Button
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Diaphragm, Stop Seat and Vacuum Breaker Molded from PERMEX® Rubber Compound for Chloramine Resistance
- 13" x 17" EASY ACCESS® Wall Box with Stainless Steel Access Panel and Vandal Resistant Screws
- Adjustable Tailpiece
- High Copper, Low Zinc Brass Castings for Dezincification 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 A112.19.2. Installation conforms to ADA requirements.

▶ Variations
10 3/4 LDIM

DFB Dual-Filtered Bypass Diaphragm

▶ 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

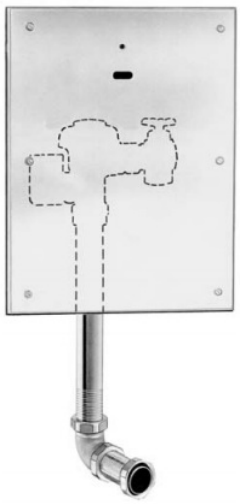
Cover (Access Panel): 14½" x 18½" (368 mm x 470 mm) #15 Gauge #304 Stainless Steel, #4 Finish

Screws: (6) #8-32 x ¾" Drilled Spanner Head — Spanner Bit Provided

▶ Control Circuit
Solid State

8 Second Arming Delay

3 Second Flush Delay



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

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

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

▶ 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. 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.

▶ Made in the U.S.A.

▶ Compliance & Certifications
Made In The USA

This space for Architect/Engineer Approval

▶ OPERATION

Sloan® Model OPTIMA® Sensor Activated Flushometers SLOAN 152-1.6 DFB 2-10 3/4 LDIM WB ESS

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 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.

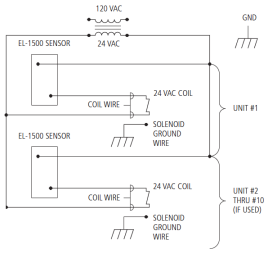
► Accessories (Sold Separately)

- See Accessories Section and OPTIMA Accessories Section of the Sloan catalog for details on these and other OPTIMA Flushometer variations.
- Transformer (120 VAC/24 VAC, 50 VA) EL-154
- Transformer (240 VAC/24 VAC, 50 VA) EL-342

► Sensor Range

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

► WIRING DIAGRAM



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

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.

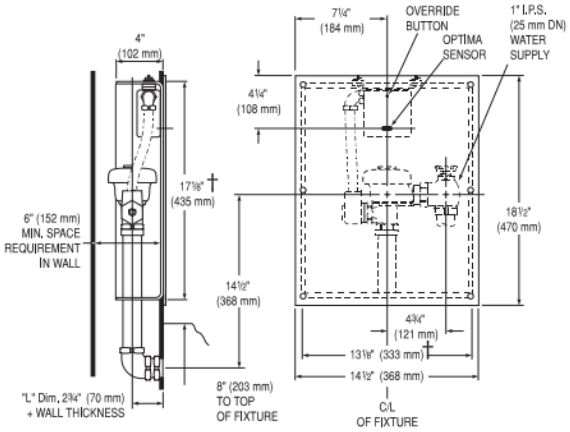
► ELECTRICAL BOX INSTALLATION

SENSOR LOCATION AND POSITIONING IS CRITICAL

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.

► ROUGH-IN



† Required Wall Opening