

# Sloan® Optima® Flushometers SLOAN 110-3.5 ES-S

#### ▶ Code Number

3770110

## ▶ Electrical Specifications

Solid state

3 Second Flush Delay

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.

OPTIMA Sensor Range Nominal 22" - 42" (559 mm - 1067 mm) Self-adaptive Window:  $\pm$  10" (254 mm)

16 second arming delay

## ▶ Description

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

## ► Flush Cycle

3.5 gpf/13.2 lpf

#### Specifications

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

- Vacuum Breaker with Flush Connection
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- Low Consumption flush accuracy
- User friendly three (3) second Flush Delay
- No External Volume Adjustment to Ensure Water Conservation
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Courtesy Flush® Override Button

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.

- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action™
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance

### Accessories (Sold Separately)

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

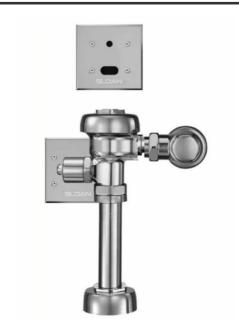
#### ▶ Fixtures

Consult factory for matching Sloan brand fixture options.

## ► ELECTRICAL SPECIFICATIONS

#### **▶ WIRING DIAGRAM**

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



## ► 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.

#### ► 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.

### ▶ Fconomical

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







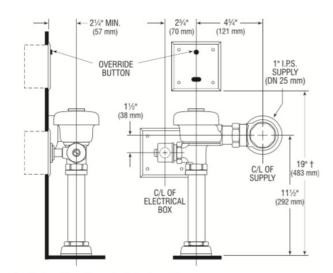
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#### **▶** OPERATION



# Sloan® Optima® Flushometers SLOAN 110-3.5 ES-S

## ▶ Line Drawing



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

Sloan 111 ESS rough-in

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



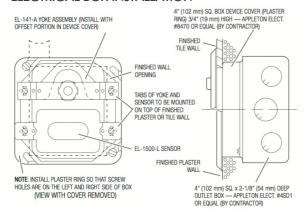
2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.



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.



#### **▶ ELECTRICAL BOX INSTALLATION**



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 product installation. Installation Template furnished with Flushometer.

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.