

# Sensor Activated Flushometers

# Description

Exposed, Sensor Activated Sloan® Model Water Closet Flushometer with True Mechanical Override Button, for top spud bowls.

# Flush Cycle

☐ Model 111-1.28 ES-S TMO High Efficiency (1.28 gpf/4.8 Lpf)

# **Specifications**

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer with the following features:

- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed bypass
- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- "Walk By" Delay of Eight (8) Seconds Prevents Unintentional Flushes
- User friendly three (3) second Flush Delay
- Non-Hold-Open True Mechanical Override
- Non-Hold-Open Integral Solenoid Operator
- Chrome Plated Wall Cover Plate (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 with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Low Consumption Flush Accuracy
- Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine Resistance

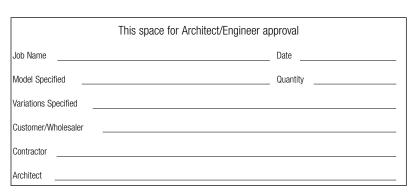
Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037. Installation conforms to ADA requirements.

# **Variations**

□ TP	Trap Primer
□ YG	Extended Bumper on Angle Stop (for seat with cover)
□ <b>Y0</b>	Bumper on Angle Stop (for open seat without cover)
Accessories	
☐ EL-154	Transformer (120 VAC/24 VAC 50 VA)
☐ EL-342	Transformer (240 VAC/24 VAC 50 VA)
See Accessories	Section and OPTIMA® Accessories Section of the Sloan catalog for details on these

Consult Sloan for Sloan brand matching fixture options.

and other Optima® flushometer variations.









# **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.

# Hvaienic

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.

# **Economical**

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

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, proven by over 100 years of experience.

# Warranty

3 year (limited)

# **Patent Pending**



Sloan Valve Company is buying renewable energy certificates to meet 100% of the company's purchased electricity use at its Franklin Park, Illinois facility

Sloan Electronics are:





# 111-1.28 ES-S TMO



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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:  $\pm$  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.

# EL-1500-L SENSOR 24 VAC COIL WIRE 24 VAC COIL UNIT #1 COIL WIRE 24 VAC COIL UNIT #2 THRU #10 (IF USED)

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

# **OPERATION**

 A continuous, invisible light beam is emitted from the Optima<sup>®</sup> sensor.



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.

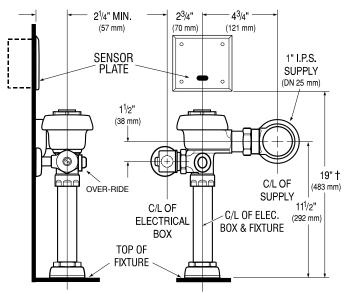


**ELECTRICAL BOX INSTALLATION** 

3. When the user steps away from the Optima sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical operates the solenoid. This initiates the flushing cycle to flush the fixture. The circuit then automatically resets and is ready for the next user.



# ROUGH-IN



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

# 4" (102 mm) SQ. x 2-1/2" (64 mm) DEEP OUTLET BOX — APPLETON ELECT. #4SD1 **FINISHED** MOUNTING PLATE OR EQUAL (BY CONTRACTOR) TILE WAL 0 0 ď Ø COVER PLATE FINISHED PLASTER WALL 4" (102 mm) SQ. BOX DEVICE COVER (PLASTER RING) 3/4" ATTACH MOUNTING PLATE TO PLASTER RING USING FOUR (4) SCREWS (SUPPLIED) (19 mm) HIGH — APPLETON ELECT. #8470 OR EQUAL (BY



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