

# 186-1.0 ES-S TMO

► **Description**

Exposed, Sensor Activated Sloan® Model Urinal Flushometer with True Mechanical Override, for ¾" top spud urinals.

► **Flush Cycle**

□ 186-1.0 ES-S TMO Low Consumption (1.0 gpf/3.8 Lpf)

► **Specifications**

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

- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Bypass
- OPTIMA® EL-1500 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
- ¾" 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 ¾" 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.

► **Accessories**

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

► **Fixtures**

Consult Sloan for Sloan brand matching fixture options.



► **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.

► **Hygienic**

User makes no physical contact with the Flushometer surface. 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.

► **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, proven by over 100 years of experience.

► **Warranty**

3 year (limited)

► **Patent Pending**

This space for Architect/Engineer approval	
Job Name _____	Date _____
Model Specified _____	Quantity _____
Variations Specified _____	
Customer/Wholesaler _____	
Contractor _____	
Architect _____	

Sloan Electronics are:



# 186-1.0 ES-S TMO

## Description

Exposed, Sensor Activated Sloan® Model Urinal Flushometer with True Mechanical Override, for 3/4" top spud urinals.

## Flush Cycle

☑ Model 186-1.0 ES-S TMO Low Consumption (1.0 gpf/3.8 Lpf)

## ELECTRICAL SPECIFICATIONS

### Control Circuit

Solid State  
24 VAC Input  
24 VAC Output  
8 Second Arming Delay  
24-Hour Sentinel Flush

### OPTIMA Sensor Range

Nominal 15" - 30" (381 mm - 762 mm)  
Self-adaptive Window ± 8" (203 mm)

### Solenoid Operator

24 VAC, 50/60 Hz

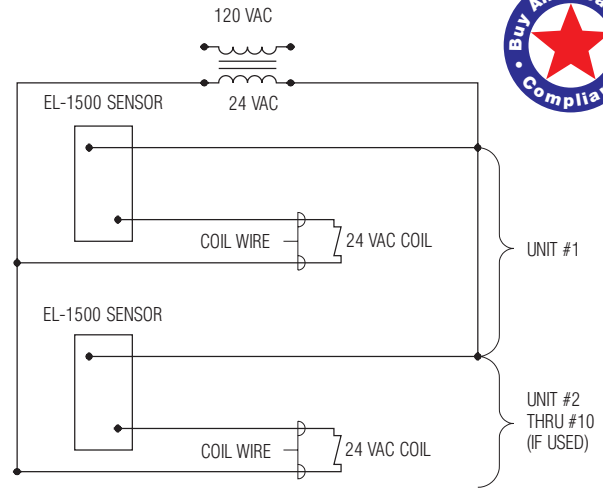
### Transformer

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.

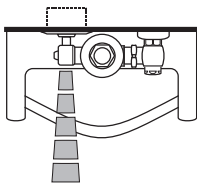
## WIRING DIAGRAM



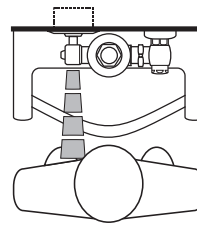
One Transformer serves up to ten (10) OPTIMA® Closet/Urinal Flushometers. Specify number of transformers required accordingly.

## OPERATION

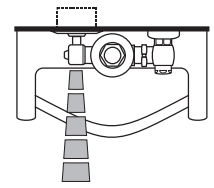
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



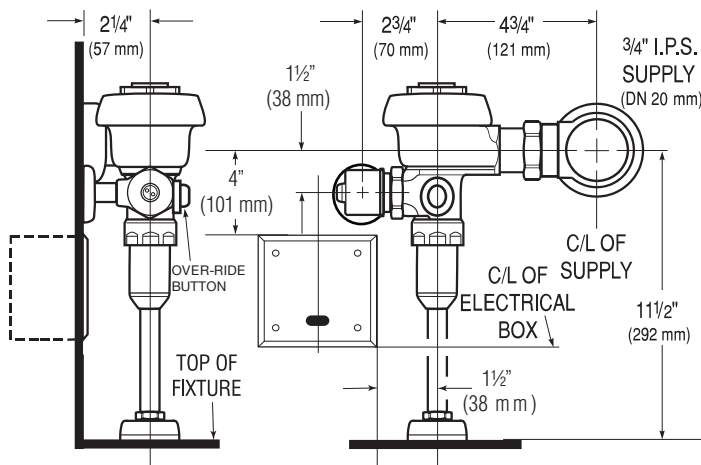
2. As the user enters the beam's effective range (15" to 30") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the



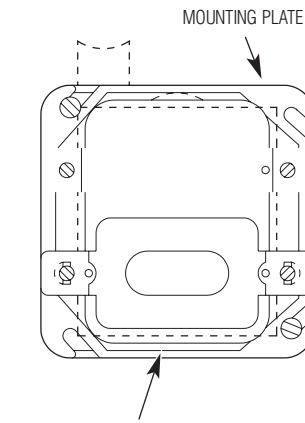
3. When the user steps away from the OPTIMA® Sensor, the circuit immediately initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.



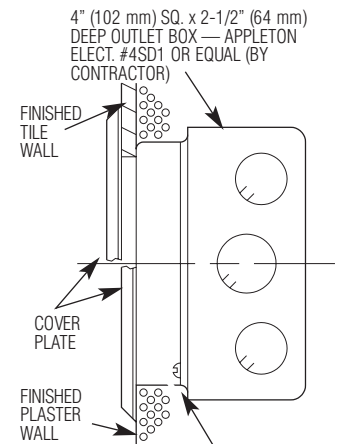
## ROUGH-IN



## ELECTRICAL BOX INSTALLATION



ATTACH MOUNTING PLATE TO PLASTER RING USING FOUR (4) SCREWS (SUPPLIED)



4" (102 mm) SQ. BOX DEVICE COVER (PLASTER RING) 3/4" (19 mm) HIGH — APPLETON ELECT. #8470 OR EQUAL (BY CONTRACTOR)

# SLOAN

10500 SEYMOUR AVE. - FRANKLIN PARK, IL 60131  
PHONE: 1-800-9-VALVE-9 - FAX: 1-800-447-8329  
http://www.sloanvalve.com

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# Air Delights

11170 SW 5TH STREET, SUITE 100 - BEAVERTON, OR 97005  
PHONE: 1-800-440-5556 - FAX: 1-503-643-8224  
http://www.airdelights.com - Customer\_Service@AirDelights.com

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