

Sloan® Model



186 ES-S

Description

Exposed, Sensor Activated Sloan® Model Urinal Flushometer for 34" top spud urinals.

Flush Cycle

☐ Model 186-1.0 ES-S Low Consumption (1.0 gpf/3.8 Lpf) ☐ Model 186 ES-S Water Saver (1.5 gpf/5.7 Lpf)

Variations

□ DFB Dual Filtered Fixed Bypass Diaphragm
□ OR Override Button

Specifications

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

- High Chloramine Resistant PERMEX™ Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action™
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- 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 with Flush Connection
- Spud Coupling and Spud Flange for ¾" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- No External Volume Adjustment to Ensure Water Conservation
- Low Consumption Flush Accuracy
- Stop Seat and Vacuum Breaker Molded from PERMEX™ Rubber Compound for Chloramine Resistance
- 100% of the energy used in manufacturing is offset with Renewable Energy Sources
 – Wind Energy

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)		
☐ EL-518-A	Flushometer Electrical Box Positioning and Support Kit		
See Accessories Section and OPTIMA Accessories Section of the Sloan catalog for details on			
these and other OPTIMA Flushometer variations.			

Fixtures

Consult Sloan for Sloan brand matching fixture options.



ADA Compliant

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. Twenty-four 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 operated Sloan® Flushometer.

Warranty

3 year (limited)

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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: \pm 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.

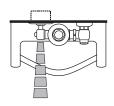
Sloan Part #EL-342 240 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

WIRING DIAGRAM 120 VAC GND FL-1500 SENSOR 24 VAC 24 VAC COIL COIL WIRE UNIT #1 SOI FNOID **GROUND** FL-1500 SENSOR WIRF 24 VAC COIL UNIT #2 COIL WIRE THRU #10 (IF USED) SOLENOID **GROUND** WIRF

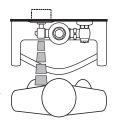
One Transformer serves up to ten (10) OPTIMA® Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

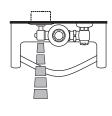
 A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



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.



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.

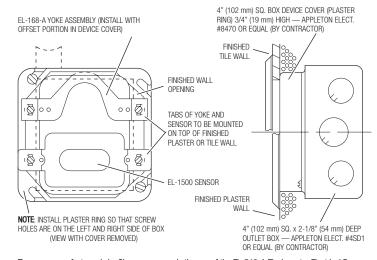


VALVE ROUGH-IN

- 21/4" MIN. 23/4" 43/4" (57 mm) 3/4" I.P.S. (121 mm) (70 mm) **SUPPLY** (DN 20 mm) (25 mm) 21/2" • (64 mm) C/L OF **SUPPLY** C/L OF 111/2" **ELECTRICAL** (292 mm) BOX

ELECTRICAL BOX INSTALLATION SENSOR LOCATION AND POSITIONING IS CRITICAL

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-518-A Flushometer Electrical Box Positioning and Support Kit. Specify and order the EL-518-A Kit separately. Consult factory for installation details.

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