

186 ES-S

186-1.0 ES-S

186-0.5 ES-S

► Description

Exposed, Sensor Operated Regal® Model Urinal Flushometer, for 3/4" top spud urinals.

► Flush Cycle

- ☐ Model 186 ES-S Water Saver (1.5 gpf/5.7 Lpf)
- ☐ Model 186-1.0 ES-S Low Consumption (1.0 gpf/3.8 Lpf)
- ☐ Model 186-0.5 ES-S (0.5 gpf/1.9 Lpf)

► Specifications

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

- 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
- 3/4" I.P.S. Screwdriver Bak-Chek™ Angle Stop
- Vandal Resistant Stop Cap
- Adjustable Tailpiece
- Vacuum Breaker Flush Connection
- Spud Coupling and Flange for 3/4" Top Spud
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Low Consumption flush accuracy controlled by Para-Flo™ Technology
- Diaphragm, Stop Seat and Vacuum Breaker to be 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, ANSI/ASME A112.19.6 and Military Specification V-29193. Installation conforms to ADA requirements.

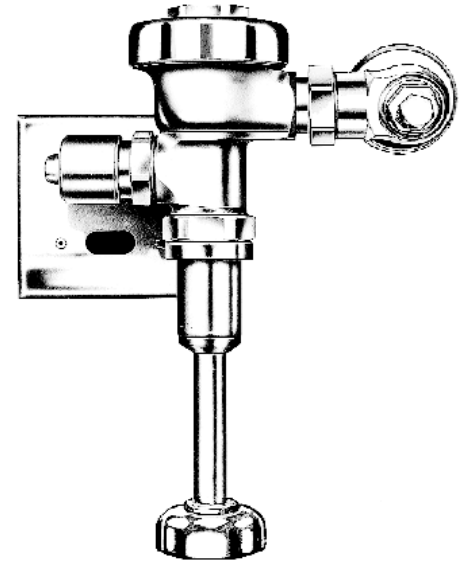
► Variations

- ☐ **YB** Sweat Solder Adapter Kit with Stamped Flange
- ☐ **YBYC** Sweat Solder Adapter Kit with Cast Wall Flange w/Set Screw

► 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.



► 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 Regal® Flushometer.

► Warranty

3 year (limited)

► Made in the U.S.A.



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

186 ES-S 186-1.0 ES-S 186-0.5 ES-S

Description

Exposed, Sensor Operated Regal® Model Urinal Flushometer, for 3/4" top spud urinals.

Flush Cycle

- Model 186 ES-S Water Saver (1.5 gpf/5.7 Lpf)
- Model 186-1.0 ES-S Low Consumption (1.0 gpf/3.8 Lpf)
- Model 186-0.5 ES-S (0.5 gpf/1.9 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: $\pm 8"$
(203 mm)

Solenoid Operator

24 VAC, 50/60 Hz

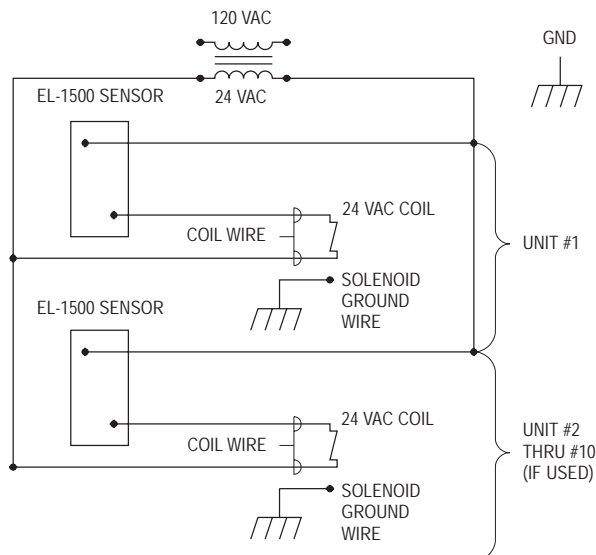
Transformer

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.

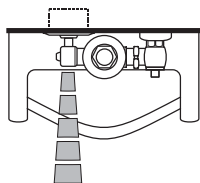
WIRING DIAGRAM



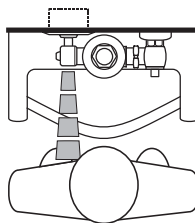
One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.

OPERATION

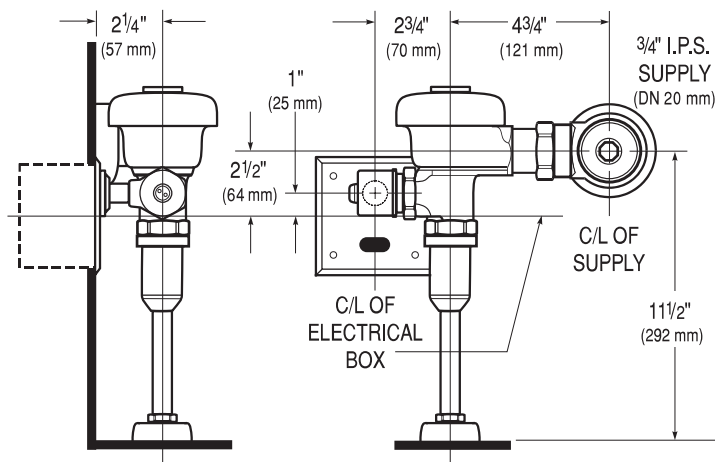
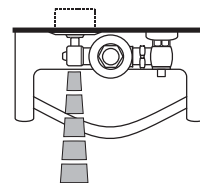
1. A continuous, invisible light beam is emitted from the OPTIMA Sensor.



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 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.

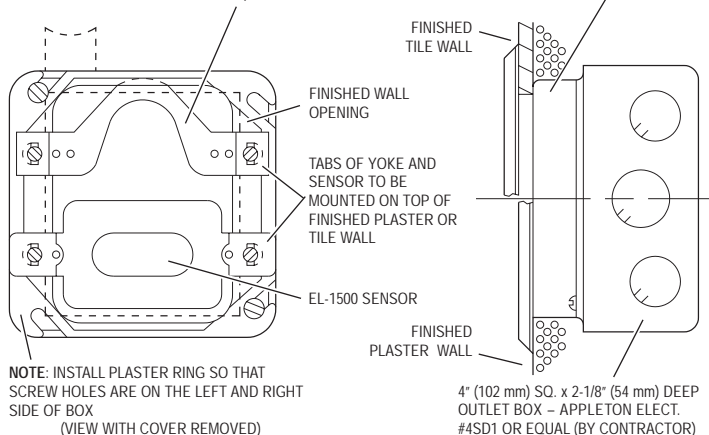


ELECTRICAL BOX INSTALLATION

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.

EL-168-A YOKE ASSEMBLY (INSTALL WITH OFFSET PORTION IN DEVICE COVER)



NOTE: INSTALL PLASTER RING SO THAT SCREW HOLES ARE ON THE LEFT AND RIGHT SIDE OF BOX
(VIEW WITH COVER REMOVED)

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.

SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • <http://www.sloanvalve.com>