

Royal[®] OPTIMA[®] Model

Sensor Operated Flushometers

153-1.28 WB ES-S

Description

Concealed, Sensor Operated Royal® Model Water Closet Flushometer, enclosed behind a 13" x 17" Wall Box with Stainless Steel Access Panel, for floor mounted or wall hung top spud bowls.

Flush Cycle

Model 153-1.28 WB ES-S Low Consumption (1.28 gpf/4.8 Lpf)

Specifications

Quiet, Concealed, Diaphragm Type, Rough Brass Closet Flushometer with the following features:

- PERMEX[™] Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- User friendly three (3) second Flush Delay
- Courtesy Flush™ Override Button
 Non-Hold-Open Integral Solenoid Operator
- 13" x 17" EASY ACCESS® Wall Box with Stainless Steel Access Panel and Vandal Resistant Screws
- 1" I.P.S. Wheel Handle Bak-Chek™ Angle Stop
- Adjustable Tailpiece
- · High Back Pressure Vacuum Breaker Flush Connection, Spud Coupling and Flanges for 11/2" Exposed Top Spud
- Sweat Solder Adapter
- Chrome Plated Exposed Flushometer Parts
- 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
- Flush Accuracy Controlled by CID[™] 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.

L Dimension

Specify the "L" Dimension for the proper length of the Flush Connection. The "L" Dimension is equal to the Wall Thickness (to nearest whole inch) plus 23/4".

Variations

Trap Primer Elbow

Accessories

Transformer (120 VAC/24 VAC, 50 VA) □ EL-154

□ EL-342 Transformer (240 VAC/24 VAC, 50 VA)

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

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



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. Wall Box allows for vandal-proof concealed installation where pipe chase is not available or pipe space is limited.

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. 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 Royal® Flushometer, proven by 90 years of experience.

Warranty

3 year (limited)

Made in the U.S.A.

153-1.28 WB ES-S

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Flush Cycle ►

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ELECTRICAL SPECIFICATIONS

- **Control Circuit** Solid State 24 VAC Input 24 VAC Output
- Solenoid Operator 24 VAC, 50/60 Hz

Gauge Steel

#4 Finish

Provided

Wall Box Specifications

EASY ACCESS® Wall Box

x 432 mm x 102 mm) #16

Assembly - Part #EL-192-A

Frame: 13" x 17" x 4" (330 mm

Cover (Access Panel): 141/2" x

181/2" (368 mm x 470 mm) #15

Screws: (6) #8-32 x 3/4" Drilled

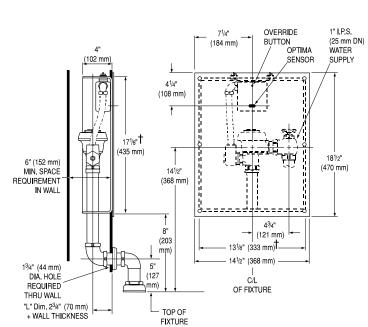
Spanner Head — Spanner Bit

Gauge #304 Stainless Steel,

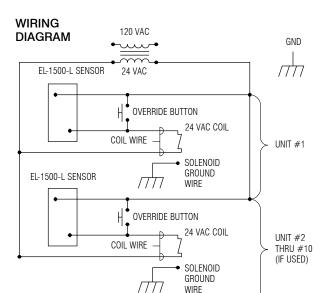
- 8 Second Arming Delay 3 Second Flush Delay 24 Hour Sentinel Flush
- **OPTIMA Sensor Range** Nominal 22" - 42" (559 mm -1067 mm) Self-adaptive Window \pm 10" (254 mm)
- **OPERATION**
- 1. A continuous, invisible light beam is emitted from the **OPTIMA Sensor.**



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.



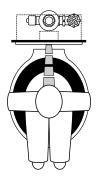
Required wall opening +



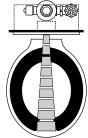
WIRE

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.



3. When the user steps away from the OPTIMA Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "onetime" 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.



One Transformer serves

up to ten (10) OPTIMA

Flushometers. Specify

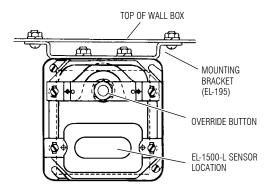
required accordingly.

number of transformers

Closet/Urinal

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.



Adjust the Mounting Bracket so that the Sensor sits flush against the Cover Plate.

Refer to the instructions packaged with the Flushometer for additional installation information

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

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