SLOAN®

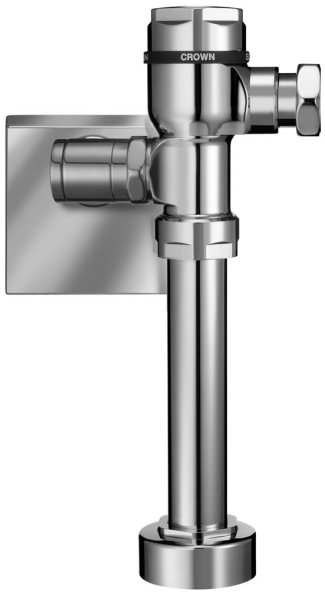
Water Connects Us™

Crown® Model OPTIMA®

Sensor-Activated Flushometers

111-1.28 ES-S

HET HIGH-EFFICIENCY TOILET



Description

Exposed, sensor-activated Crown® water closet flushometer, for floor mounted or wall hung top spud bowls. Valve cannot be converted to exceed a low consumption flush.

Flush Cycle

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

Specifications

Quiet, Exposed, piston-type, Chrome Plated Closet flushometer for either left or right hand supply with the following features:

- Fixed Volume Piston with filtered o-ring bypass
- Two (2) chrome plated wall cover plates (for 2-gang Electrical Box) with vandal resistant screws
- Adjustable Tailpiece
- High back pressure vacuum breaker flush connection w/ one-piece bottom hex coupling nut
- Spud Coupling and Flange for 1-1/2" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange with Set Screw
- Main Seat filters water supplied to the Solenoid Operator
- Type 316 Stainless Steel Non-Hold-Open Relief Valve Assembly
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Valve designed to accept Low Consumption and High Efficiency Pistons only to ensure Water Conservation
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Main Seat and Vacuum Breaker molded from PERMEX Rubber Compound for Chloramine Resistance

Valve Body and Tailpiece shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2. 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-485-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 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 except to initiate the override button when required. Helps control the spread of infectious diseases. The 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 operated Crown® flushometer.

Warranty

3 year (limited)

This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

111-1.28 ES-S

Description
Exposed, sensor-activated Crown® water closet flushometer, for floor mounted or wall hung top spud bowls. Valve cannot be converted to exceed a low consumption flush.

Flush Cycle
Model 111-1.28 ES-S High Efficiency (1.28 gpf/4.8 Lpf)

Electrical Specifications

Control Circuit
Solid State
24 VAC Input
24 VAC Output
8 Second Arming Delay
3 Second Flush Delay
24 Hour Sentinel Flush

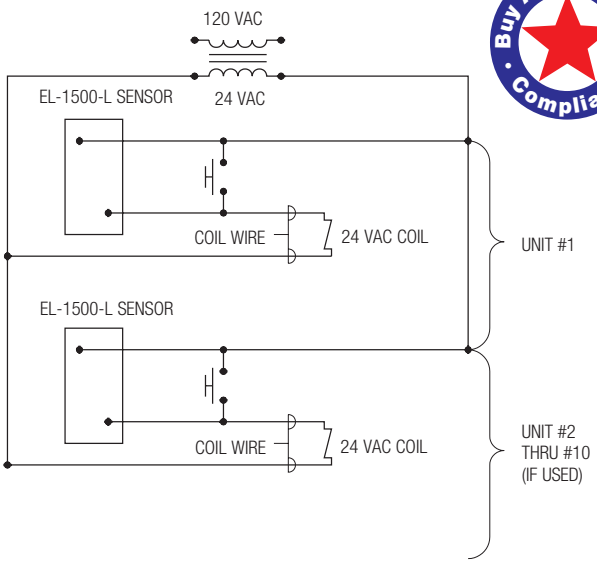
OPTIMA Sensor Range
Nominal 22" - 42" (559 mm - 1067 mm)
Self-adaptive Window: ± 10" (254 mm)

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.

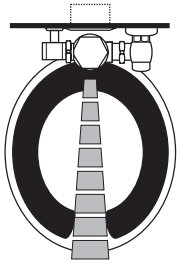
Wiring Diagram



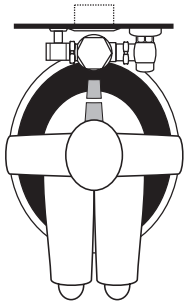
One transformer serves up to ten (10) Optima Closet/Urinal flushometers. Specify number of transformers required accordingly.

Operation

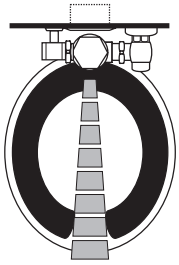
1. A continuous, invisible light beam is emitted from the Optima sensor.



2. As the user enters the beam's effective range (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.



3. When the user steps away from the Optima sensor, the circuit waits 3 seconds (to prevent false flushing) then 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.



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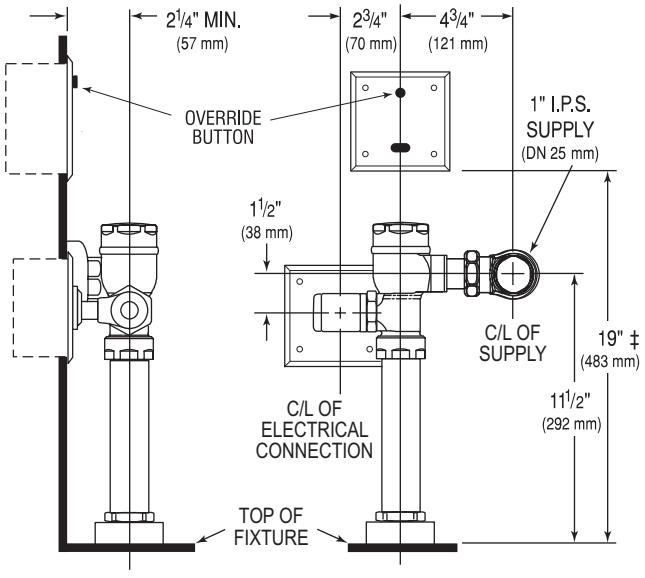
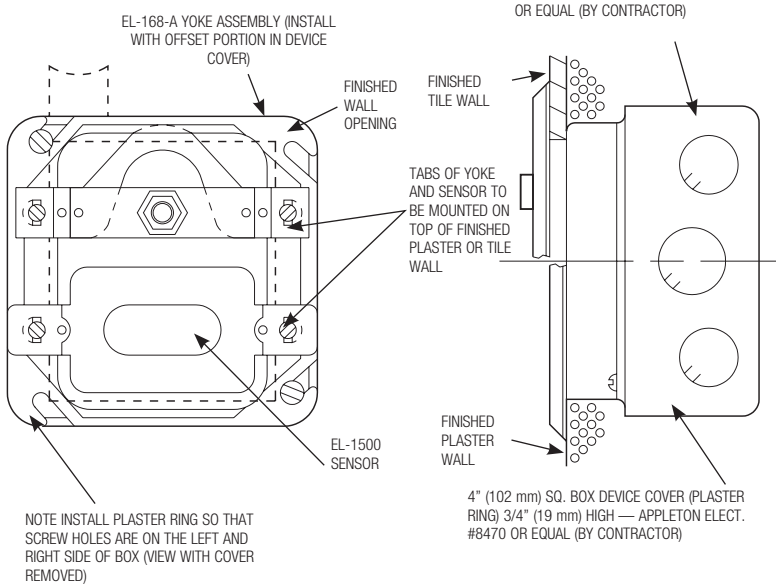


Electrical Box Installation



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

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