

Sloan Optima® ES-S TMO Flushometer & Wall Hung Toilet Fixture Model 2450.1320-1.28 ES-S TMO

▶ Code Number

24501320

Description

Complete system with exposed, sensor activated, Sloan® OPTIMA® ES-S TMO Flushometer & Vitreous China Wall Huna Fixture

► Flush Cycle

1.28 gpf/4.8 Lpf

Specifications

Quiet, exposed, diaphragm type, chrome plated closet Flushometer for either left or right hand supply and vitreous china wall hung water closet with the following features:

- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action™
- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- Non-Hold-Open True Mechanical Override
- User Friendly Three (3) Second Flush Delay
- 1" IPS screwdriver Bak-Chek® angle stop with free spinning vandal resistant stop cap
- Spud coupling and flange for 11/2" top spud
- Non-Hold-Open Integral Solenoid Operator
- Chrome Plated Wall Cover Plate (for 2-gang Electrical Box) with Vandal Resistant Screws
- High copper, low zinc brass castings fordezincification resistance
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1-1/2" Top Spud

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037/ ASME A112.19.2/CSA B45.1

- "Walk By" Delay of Eight (8) Seconds Prevents Unintentional Flushes
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange with Set Screw
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance

► Fixture Specification

- Wall hung vitreous china elongated bowl
- Siphon jet flushing action
- 1½" IPS top spud inlet
- 21/8" fully glazed trapway diameter
- Integral flushing rim with bed pan lugs
- Water spot area 11-1/4" x 8-1/2"
- Mounting hardware, carrier and toilet seat not included
- Recommended seats: Bemis 1955CT/1955SSCT & 2155CT/2155SSCT Church - 295CT/295SSCT & 2155CT/2155SSCT
- Water closet shall be in compliance to the applicable sections of ASME A112.19.2/CSA B45.1
- Compliant with Buy American Act when purchased as a combination

Plumbing System Requirements

Minimum Operating Pressure: 25 PSI

Maximum Fixture Operating Pressure: 80 PSI Minimum Operating Flow Rate: 18 GPM



▶ 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.

▶ 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.

▶ Compliance & Certifications







This space for Architect/Engineer Approval



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► Electrical Specifications

Control Circuit

- Solid state
- 24 VAC Input/Output
- 8 second arming delay
- 24 hour Sentinel Flush

Sensor Range

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

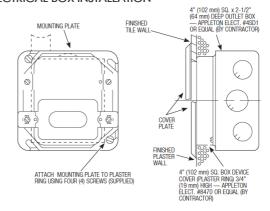
Solenoid Operator

• 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.

► ELECTRICAL BOX INSTALLATION



▶ OPERATION

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

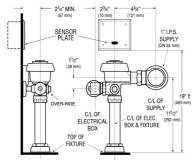


As the user enters the beam's
effective range (22" to 42")
the beam is reflected into
the Optima® scanner window
and transformed into a low
voltage electrical circuit. Once
activated, the output circuit
continues in a "hold" mode for
as long as the user remains
within the effective range of
the sensor.

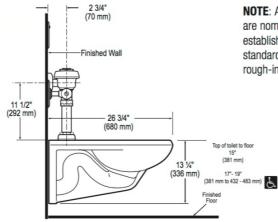


3. When the user steps away from the Optima® sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "one-time" signal that operates the solenoid. This initiates the flushing cycle to flush the fixture. The circuit then automatically resets and is ready for the next user.





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



NOTE: All vitreous china dimensions shown in these drawings are nominal. Dimensions can vary within the tolerances established in the governing ASME A112.19.2/CSA B45.1 standard. Please take this into consideration when planning rough-in and plumbing layouts.

