Royal® Optima® TMO Flushometer & Wall Hung Closet Model WETS-2453.1304-1.6 Royal ESS TMO

▶ Code Number
24531304

▶ Description
Complete system with exposed, sensor activated, Royal® OPTIMA® TMO Flushometer & Vitreous China Wall Hung Fixture

▶ Flush Cycle
1.6 gpf/6.0Lpf

▶ Flushometer Specification
- 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
- Non-Hold-Open True Mechanical Override
- Non-Hold-Open Integral Solenoid Operator
- Die Cast Sensor Plate with no visible Fasteners (for 2-gang Electrical Box)
- Free spinning Vandal Resistant Stop Cap and Adjustable Tailpiece
- 1" I.P.S screwdriver Bak-Chek® angle stop
- Diaphragm, handle packing, stop seat and vacuum breaker molded from PERMEX rubber compound for chloramine resistance
- High copper, low zinc brass castings for dezincification resistance
- Flush accuracy controlled by CID® technology
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1-1/2" Top Spud
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange with Set Screw

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, ANSI/ASME 112.19.2

▶ Fixture Specification
- Elongated Bowl
- Siphon jet flushing action achieves 1000g Map score
- Mounting hardware, carrier and toilet seat not included
- Water spot area 11-1/4" x 8-1/2"
- 1-1/2" I.P.S. top spud inlet
- 2⅛" fully glazed trapway

▶ Control Circuit
- Solid State
- 24 VAC Input/Output
- 3 Second Flush Delay
- 24 Hour Sentinel Flush
- 16 Second Arming Delay

▶ Solenoid Operator

▶ Product Specification
Elongated water closet shall be made of vitreous china with a 1-1/2" top spud inlet. Bowl shall be ADA compliant when installed at required height of 17"-19" from floor to top of fixture (including seat). Water Closet shall be Sloan Model ST- 2459-A.

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.

▶ Disclaimer
NOTE: All vitreous china dimensions shown in these drawings are nominal and not to scale. Dimensions can vary within the tolerances established in the governing ASME A112.19.2/CSA B45.1 standard. It is important to consider this when planning rough-in and plumbing layouts.

▶ Plumbing System Requirements
- Maximum Static Pressure: 80 PSI
- Minimum Flowing Pressure: 25 PSI
- Minimum Flow Rate: 25 GPM

▶ Compliance & Certifications

This space for Architect/Engineer Approval

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

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24 VAC, 50/60 Hz

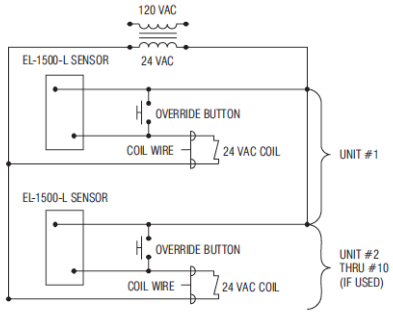
▶ Sensor Range

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

▶ Transformers

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.



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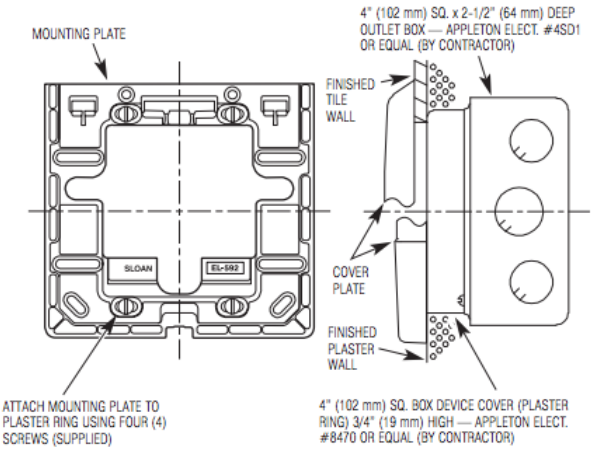
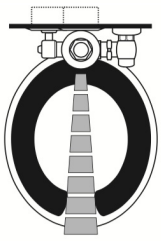
▶ ELECTRICAL BOX INSTALLATION

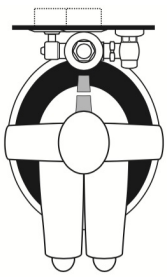


▶ OPERATION

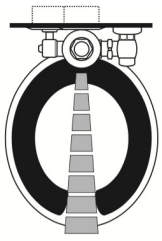
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



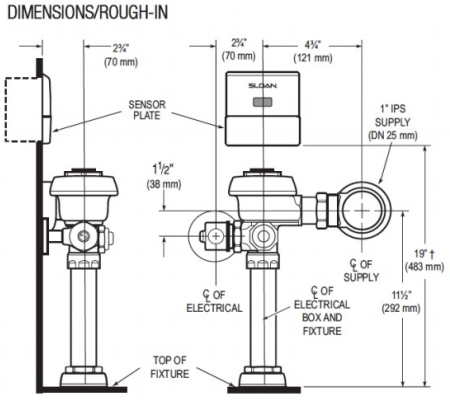
2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.

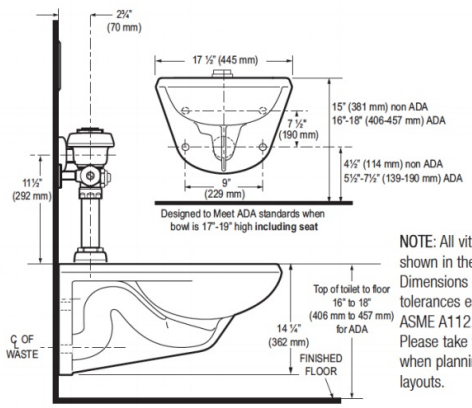


3. When the user steps away from the OPTIMA® Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next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



DIMENSIONS/ROUGH-IN





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.

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