

#### **CODE NUMBER**

3450047

### **DESCRIPTION**

1.6 gpf, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, 1" Control Stop, Electrical Override, Hardwired, Sensor-Operated, 24V, Royal® Exposed Sensor Hardwired Water Closet Flushometer.

#### **DETAILS**

Flush Volume: 1.6 gpf (6.0 Lpf)
Finish: Polished Chrome (CP)
Power Type: Hardwired (HW)

Valve: Diaphragm

• Valve Body Material: Semi-red Brass

Fixture Type: Water ClosetFixture Connection: Top Spud

• Rough-In Dimension: 11 ½" (292mm)

Spud Coupling: 1 ½" (38mm)
Supply Pipe: 1" (25mm)
Override: Electrical
Control Stop: 1"

• Voltage: 24V

#### **FEATURES**

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- Handle Packing, Main Seat, Stop Seat and Vacuum Breaker Molded from PERMEX® Rubber Compound for Chloramine resistance
- User friendly three (3) second Flush Delay
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Die Cast Sensor Plate with no visible Fasteners (for 2-gang Electrical Box)
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 11/2" Top Spud
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Courtesy Flush® Override Button
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop with Free Spinning Vandal Resistant Stop Cap

#### **VIDEOS**

ESS Flushometer

PVD Special Finishes



### **COMPLIANCES & CERTIFICATIONS**











(ADA Compliant, BAA Compliant, BABAA Compliant, cUPC Certified, UL Certified)

#### RECOMMENDED SPECIFICATION

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 and ANSI/ASME 112.19.2.

### **ELECTRICAL SPECIFICATIONS**

• Arming Delay: 16 seconds

• Control Circuit: Solid State/24 VAC Input/24 VAC Output

• Flush Delay: 3s

Self-Adaptive Window: ±10

• Sensor Range: 22"-42" (559-1,067mm)

• Solenoid Operator: 24 VAC

• Transformers (specify separately):

0345154

0345999

# **VALVE OPERATING PRESSURE (FLOWING)**

15-80 PSI (103-552 kPa). Specific fixtures may require greater minimum flowing pressure - consult manufacturer requirements.

# DOWNLOADS

- Royal ESS 110/111 Electrical Box Installation Instructions
- Royal ESS Concealed and Exposed Installation Instructions
- Royal ESS TMO Installation Instructions
- Royal 110/111/180/186 ESS TMO (Spanish) Installation Instructions
- Control Stop Repair and Maintenance Guide
- Flush Connections Flanges Repair and Maintenance Guide
- Tail Piece Repair and Maintenance Guide
- Optima ESS Repair and Maintenance Guide
- Optima ESS TMO Exposed Repair and Maintenance Guide
- Additional Downloads

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## **NOTES**

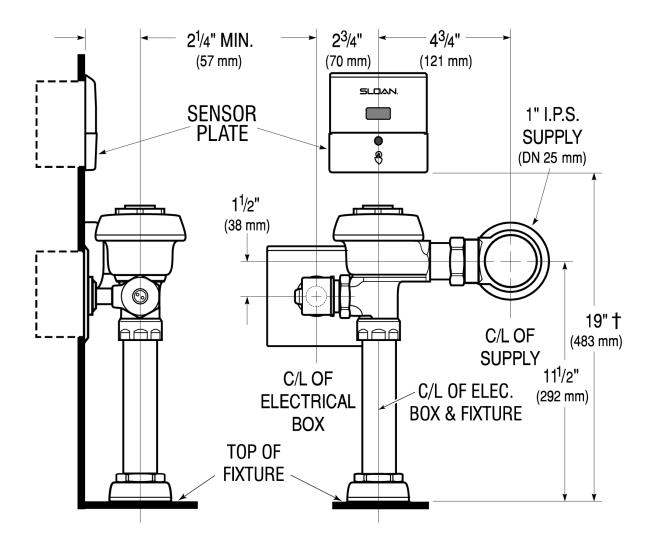
All information contained within this document subject to change without notice.

Looking for other variations of the ROYAL 111 ESS product? View the general spec sheet with all options.

### WARRANTY

View Warranty Information

### **ROUGH-IN**



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