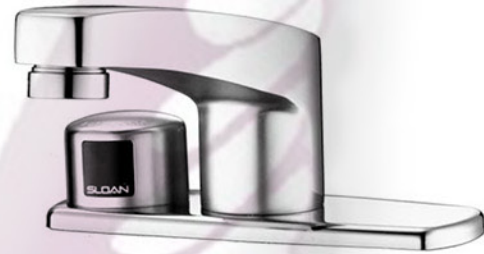


ETF-660

- ▶ **Description**
Sensor Activated Electronic Hand Washing Faucet for tempered or hot/cold water operation.
 - ▶ **Flow Rate**
 0.5 gpm/1.9 Lpm Vandal Resistant Spray Head
(See **Accessories** for other Spray Head options)
 - ▶ **Specifications**
ADA Compliant, Sensor Activated, 24 VAC, Chrome Plated Brass, Hand Washing Faucet with the following features:
 - On-Q® Deck Mounted Infrared Sensor
 - Splash-proof Circuit Control Module
 - Sensor Range Adjustment Screw
 - Troubleshooting LED Indicator Lights
 - User friendly Variable Time Out Settings
 - Filtered Solenoid Valve with serviceable Strainer Filter
 - Bak-Chek® Tee for Hot/Cold Supply
 - 120 VAC/24 VAC Transformer (specify Plug-in or Box Mount)
 - Vandal Resistant Spray Head with Pressure Compensating Flow Control
 - Metal Jacketed Wire Protection for Sensor and Solenoid Leads
 - Modular Quick-Release Sensor and Solenoid Connections
 - ▶ **Variations**
(Add suffix to Model Number for inclusion with Faucet)
 - **Trim Plate** (must be specified)
 - 4** Trim Plate for 4" Center-set Sink
 - 8** Trim Plate for 8" Center-set Sink
 - **Transformer Type** (must be specified)
 - P** Plug-in Transformer (furnished with ETF-233)
 - B** Box Mount (furnished with EL-248-40)
 - LT** Less Transformer
(specify Transformer separately - See **Accessories**)
 - **Temperature Mixing Valves** (optional)
 - ADM** Above Deck Mechanical Mixing Valve
 - BDM** Below Deck Mechanical Mixing Valve
 - BDT** Below Deck Thermostatic Mixing Valve
 Bak-Chek® Tee not required or provided when a Temperature Mixing Valve is included with the faucet.
- Consult Factory for Finish Variations*
- ▶ **Accessories** (Specify separately)
 - **Transformers**
 - ETF-233** 120 VAC/24 VAC, 50/60 Hz (35 VA) - Plug-in
(will operate up to 2 faucets)
 - EL-248-40** 120 VAC/24 VAC, 50/60 HZ (40 VA) - Box Mount
(will operate up to 2 faucets)
 - EL-154** 120 VAC/24 VAC, 50/60 Hz (50 VA) - Box Mount
(will operate up to 3 faucets)
 - EL-208** 120 VAC/24 VAC, 50/60 HZ (100 VA) - Foot Mount
(will operate up to 6 faucets)
 - EL-342** 240 VAC/24 VAC, 50/60 Hz (50 VA) - Box Mount
(will operate up to 3 faucets)
 - **Vandal Resistant Spray Heads**
 - ETF-1029-A** 2.2 gpm/8.3 Lpm Laminar Flow Spray Head
(recommended for medical applications)
 - ETF-1024-A** 2.2 gpm/8.3 Lpm Aerator
 - **Grid Strainer**
 - ETF-460-A** Chrome Plated Brass Grid Strainer w/1/4" Outlet Tube

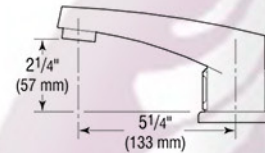


- ▶ **ADA Compliant**
- ▶ **Automatic**
The Sloan OPTIMA® ETF-660 Electronic Hand Washing Faucet operates by means of an infrared sensor. Once the user's hands enter the sensor's effective range, the Solenoid activates the water flow. Tempered water flows from the Faucet until hands are moved away. The Faucet then automatically shuts off.
- ▶ **Hygienic**
The ultimate in sanitary protection — there are no handles to turn or buttons to push. Helps to control the spread of infectious diseases.
- ▶ **Economical**
Automatic operation provides water usage savings over other faucet devices. Reduces maintenance and operation costs.
- ▶ **Warranty**
3 year (limited)
- ▶ **Compliant to:**
ASME A112.18.1 and CSA B125.1



ETF-660

FAUCET DIMENSIONS



- ▶ **Description**
Sensor Activated Electronic Hand Washing Faucet for tempered or hot/cold water operation.
- ▶ **Flow Rate**
□ 0.5 gpm/1.9 Lpm Vandal Resistant Spray Head
(See **Accessories** for other Spray Head options)

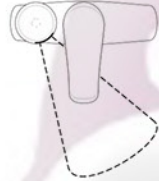

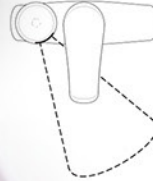
ELECTRICAL SPECIFICATIONS

- ▶ **Control Circuit**
24 VAC Input/Output, 50/60 Hz, Adjustable Range & Time Out Settings, Modular Plugs & Troubleshooting LED Indicators.
- ▶ **OPTIMA® Sensor Range**
Factory Set: 8" - 10" (203 mm - 254 mm)
Adjustable: 1" - 14" (25 mm - 356 mm)
- ▶ **Solenoid Valve**
24 VAC, 50/60 Hz with Integral Strainer Filter & 3/8" Compression Connection Inlet/Outlet.
- ▶ **Time Out Adjustment Settings**
3, 6, 12, 30 & 45 seconds; 1, 3 & 20 minutes. The Faucet Time Out Setting determines the maximum time the faucet will run upon continuous activation. This timing can be changed to meet individual application requirements. Unless otherwise specified the ETF-660 is factory set at the 30 second time out.

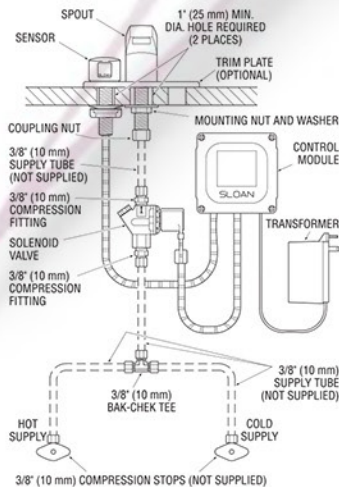
- ▶ **Transformer**
All Sloan Transformers are 50/60 Hz. Multiple faucets can be powered by a single transformer, provided that the transformer has been properly sized. Allow a minimum of 15 VA of current rating for each faucet being used.
- ▶ **Plug-in** ETF-233 120 VAC/24 VAC - 35 VA (supplied with "P" variation)
- ▶ **Box Mount** EL-248-40 120 VAC/24 VAC - 40 VA (supplied with "B" variation)
- ▶ **Box Mount** EL-154 120 VAC/24 VAC - 50 VA
- ▶ **Foot Mount** EL-208 120 VAC/24 VAC - 100 VA
- ▶ **Box Mount** EL-342 240 VAC/24 VAC - 50 VA
- ▶ **Max. Distance Control Module may be Installed from Spout**
With Standard Cable: 12" (305 mm)
- ▶ **Extension Cables (Optional)**
From Sensor to Control Module: From Solenoid Valve to Control Module:

ETF-1005-26	26" (660 mm)	ETF-1003-36	36" (914 mm)
ETF-1005-36	36" (914 mm)	ETF-1003-48	48" (1219 mm)
ETF-1005-72	72" (1829 mm)	ETF-1003-72	72" (1829 mm)
ETF-1005-108	108" (2743 mm)	ETF-1003-108	108" (2743 mm)

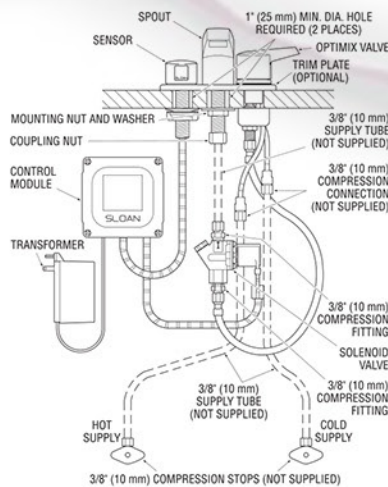
OPERATION

1. A continuous invisible light beam is emitted from the "ON-Q" OPTIMA® Sensor. 
2. As the user's hands enter the beam's effective range, the beam is reflected back into the OPTIMA® Scanner Window and activates the solenoid valve allowing tempered water to flow from the faucet. Water will flow until the hands are removed or until the faucet reaches its automatic time out limit setting. 
3. When hands are moved away from the "ON-Q" OPTIMA® Sensor, the loss of reflected light initiates an electrical signal that deactivates the Solenoid Valve, shutting off the water flow. The Circuit then automatically resets and is ready for the next user. 

ETF-660 Faucet with Bak-Chek® Tee for Hot and Cold Water Supply (shown with 4" trim plate)



ETF-660 Faucet with ADM Variation Mixing Valve for Hot and Cold Water Supply (shown with 4" trim plate)



ETF-660 Faucet with BDM and BDT Variation Mixing Valves for Hot and Cold Water Supply (shown with 4" trim plate)

