

## **Electronic Hand Washing Faucet**

#### 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:

- 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
- Trim Plate with Anti-Rotation Pin (specify 4" or 8")
- 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)

•	Irim 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)	
□В	Box Mount (furnished with EL-248-40)	
	Less Transformer (specify Transformer separately - See Accessories)	

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Temperature Mixing Valves (optional)				
$\square$ ADM	Above Deck	Mechanical Mi	ixing Valve	
□ BDM	Below Deck I	Mechanical Mi	xing Valve	
□ BDT	Below Deck	Thermostatic N	/lixing Valve	
Bak-Chek® Tee	e not required or	r provided wher	n a Temperatur	e Mixing Valve is

Consult Factory for Finish Variations

### Accessories (Specify separately)

included with the faucet.

#### 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-1028-A1.5 gpm/5.7 Lpm Laminar Flow Spray Head (recommended for medical applications)

#### Grid Strainer

□ ETF-460-A Chrome Plated Brass Grid Strainer w/11/4" Outlet Tube

See OPTIMA Accessories Section of the Sloan Catalog for a complete listing of OPTIMA Faucet Accessories and Variations.



#### **ADA Compliant**

#### Automatic

The Sloan OPTIMA® ETF-80 Electronic Hand Washing Faucet operates by means of an infrared sensor. Once the user enters 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. High style design makes the ETF-80 ideal for upscale public rest rooms.

#### 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



Certified





Listed by I.A.P.M.O.

75

This space for Architect/Engineer approval			
Job Name	Date		
Model Specified	Quantity		
Variations Specified			
Customer/Wholesaler			
Contractor			
Architect			



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#### Flow Rate

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#### **ELECTRICAL SPECIFICATIONS**

#### Control Circuit

24 VAC Input/Output, 50/60 Hz, Adjustable Range Time Out Settings, Modular Plugs and Troubleshooting LED Indicators.

### OPTIMA® Sensor Range

Factory Set: 4"-5" (102 mm - 127 mm)
Adjustable: 1" - 8" (25 mm - 203 mm) — Adjustability dependent upon depth and reflectivity of basin.

#### Solenoid Valve

24 VAC, 50/60Hz 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-80 is factory set at the 30 second time out.

#### OPERATION

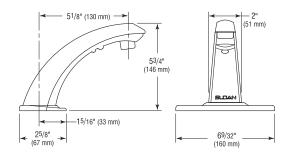
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor located on the throat of the lavatory faucet.



2. As the user's hands enter the beam's effective range, the beam is reflected back into the Sensor Receiver 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.

#### **FAUCET DIMENSIONS**

(Shown with 4" Trim Plate)



#### 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)

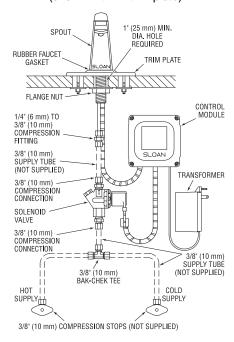
From Sensor to	Control Module:	: From Solenoid V	/alve to Con	trol Module:
ETF-1005-26	26" (660 mm)	n) ETF-1003-36	36"	(914 mm)
ETF-1005-36	36" (914 mm)	i) ETF-1003-48	48"	(1219 mm)
ETF-1005-72	72" (1829 mm)	i) ETF-1003-72	72"	(1829 mm)
ETF-1005-108	108" (2743 mm)	i) ETF-1003-108	108"	(2743 mm)



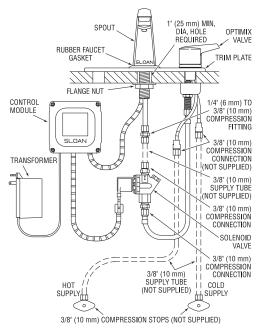
3. When hands are moved away from the OPTIMA® Sensor, the loss of reflected light initiates an electrical signal that deactivates the Solenoid Valve shutting off the water flow. The Circuit then automatically resets and is ready for the next user.



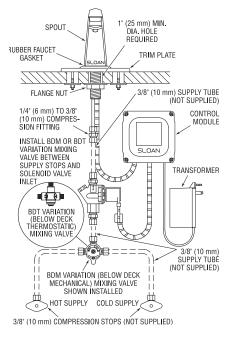
#### ETF-80 Faucet with Bak-Chek® Tee for Hot and Cold Water Supply (shown with 4" trim plate)



#### ETF-80 Faucet with ADM Variation Mixing Valve for Hot and Cold Water Supply (shown with 8" trim plate)



#### ETF-80 Faucet with BDM and BDT Variation Mixing Valves for Hot and Cold Water Supply (shown with 4" trim plate)



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