590T Series – Electronic Faucet
With Surface Mount Control Box

TECK®
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Specification: (example)
- Supplied as complete product
- **H₂OPTICS®** technology – no external adjustments required
- Chrome plated one piece **CAST** Hi-Rise spout with integral sensor
- **Battery** (4 'C" cell) or **Hardwire** (24 VAC) infrared electronic handwash system
- Adjustable sensing range and timeout
- Forged brass solenoid valve
- Surface mount housing
- Mixing valve required (order separately)
- Serviceable filter screen upstream of the valve

and... with... (specify battery or hardwire)
  with... (add outlet required)
  with... (4" or 8" coverplates – specify separately – see next page)
  with... (for hardwire with battery backup – specify separately – see next page)
  with... (transformer required for hardwire models – specify separately –
    see next page)

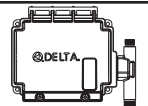**590T0120**

Engineer/Architect Approval

Model Specified:

Approval: Date:

DESCRIPTION	PRODUCT NO.			
Hardwire	**590T0**	**1**		**0**
Battery Operated	**590T1**	**1**		**0**

SPOUT & SENSOR	✔
0	☐
1 Single Hole Deckmount Hi-Rise Spout with Integral Sensor	✔
2	☐
3	☐
4	☐
5	☐
6	☐
7	☐
8	☐
9	☐

OUTLET	✔
0	☐
1	☐
2 Vandal Resistant 1.5 gpm (5.7 L/min.) Laminar w/Agion® Antimicrobial	☐
3 Vandal Resistant 1.5 gpm (5.7 L/min.) Flow Control Aerator	☐
4	☐
5 Vandal Resistant 0.5 gpm (1.9 L/min.) Laminar Outlet	☐
6 Vandal Resistant 1.0 gpm (3.8 L/min.) Laminar Outlet	☐
7	☐
8	☐
9 Vandal Resistant 0.35 gpm (1.32 L/min.) Non-Aerating Spray Outlet	☐

CONTROL BOX	✔
0 Surface Mount Housing* SEE Specification Drawing #13	✔
1	☐
2	☐
3	☐
4	☐
5	☐
6	☐
7	☐
8	☐
9	☐

*Mixing valve (order separately).
Refer to www.specselect.com for individual models.

Flow Rates are at 60 PSI.
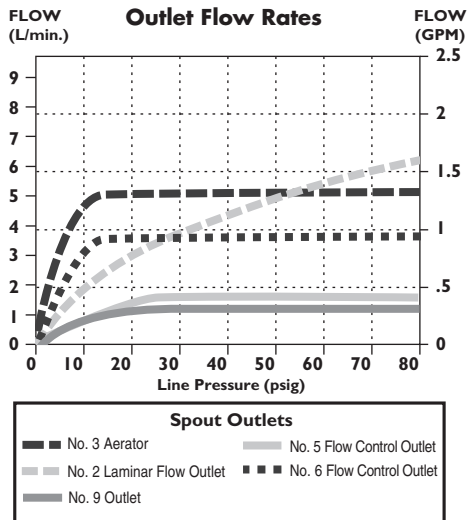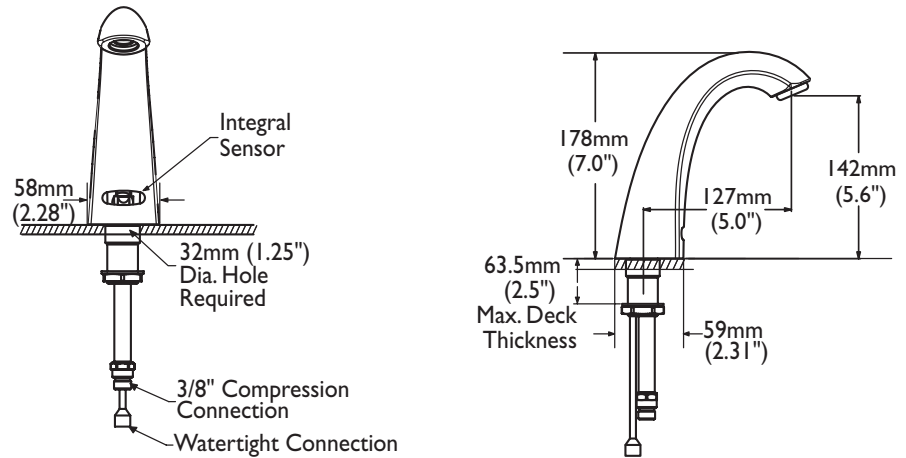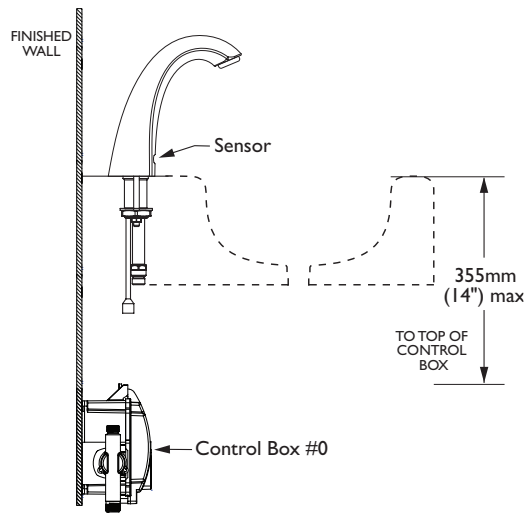Note: Use this page front and back, with specification drawing page referenced above, as product submittal sheets.

Approvals:

- CSA certified
- Complies to ASME A112.18.1/CSA B125.1
- ♿ Indicates compliance to ICC / ANSI A117.1
- 💧 Outlet options 2, 3 and 6 are EPA WaterSense listed
- Verified compliant with 0.25% weighted average Pb content regulations

(Contact Delta Representative for State and/or Local Approvals.)

Patented

FLOW RATE vs PRESSURE

Outlet Flow Rates

FLOW (L/min.) — FLOW (GPM)

Spout Outlets

- — — No. 3 Aerator
- — — No. 2 Laminar Flow Outlet
- ——— No. 9 Outlet
- ——— No. 5 Flow Control Outlet
- ▪ ▪ ▪ No. 6 Flow Control Outlet

590T SERIES

Integral Sensor

58mm (2.28")

32mm (1.25") Dia. Hole Required

3/8" Compression Connection

Watertight Connection

178mm (7.0")

127mm (5.0")

142mm (5.6")

63.5mm (2.5") Max. Deck Thickness

59mm (2.31")

TYPICAL INSTALLATION

FINISHED WALL

Sensor

355mm (14") max

TO TOP OF CONTROL BOX

Control Box #0

Available Options for Field Conversion

❏ **061047A**
Hardwire with Battery Backup
See DSP-BB for detailed specification.

❏ **060651A**
3 Position Switch
See DSP-ELACC for detailed specification.

Note: Measurements may vary ± 6mm (0.25")

Refer to www.specselect.com for individual models.
Product supplied as shown by solid lines. All items shown by dotted lines supplied by others.

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590T SERIES 4" AND 8" COVERPLATE (ORDER SEPARATELY)

OPTIONAL COVERPLATES	
PRODUCT NO.	**DESCRIPTION**
060546A	**4" Coverplate**
060547A	**8" Coverplate**

Available Optional Coverplates for field conversion.
Includes anti-rotation pin for secure public lavatory installation.

Integral Sensor

58mm (2.28")

63.5mm (2.5") Max. Deck Thickness

4" Coverplate 191mm (7.5")
8" Coverplate 282mm (11.1")

32mm (1.25") Dia. 3 Holes Required

3/8" Compression Connection

Watertight Connector

4" Coverplate 102mm (4.0")
8" Coverplate 203mm (8.0")

194mm (7.6")

127mm (5.0")

158mm (6.2")

63.5mm (2.5")
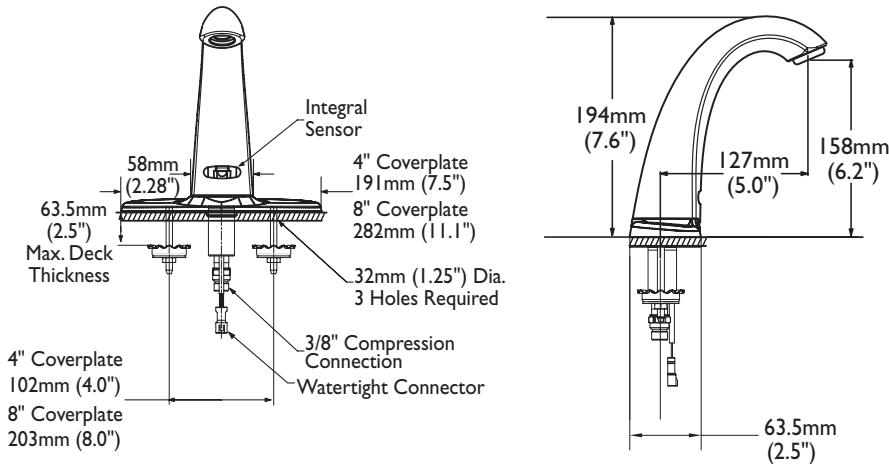
OPERATION:

- Hands free (touchless) operation.
- Water flows when sensor is activated.
- Water flow stops upon de-activiation of sensor.
- Adjustable auto shut-off feature. Factory set to 45 seconds. Will reset once obstruction is removed.
- Adjustable sensing distance 76 to 381mm (3" to 15") factory set to 229 mm (9") (± 3.0")
- Low battery audible beep (for battery models only) will activate after faucet shuts off when approximately 1500 cycles remain.
- Metering mode with selectable flow times of 7 seconds to 4 minutes, factory set off.
- Periodic Rinse feature, time adjustable in 6 hour increments up to 2 days. Selectable rinsing lengths from 10 to 180 seconds. Factory set off.

NOTE 1: For optimum performance of this product, we recommend a system pressure between 20 and 80 PSI static. This product will operate up to a maximum of 125 PSI static per ANSI and CSA requirements. However, we do not recommend pressures above 80 PSI. Thermal expansion or leaking pressure reducing valves may require use of expansion tanks or relief valves to ensure your system never exceeds its maximum intended pressure setting.

NOTE 2: Designed for routine 171°F (77°C) disinfection cycles up to 30 minutes.
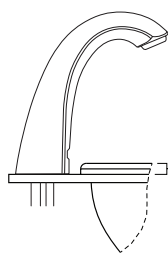
SENSOR CLEARANCE

For above deck mounted sinks, the sensor requires a clearance.

With Cover Plate
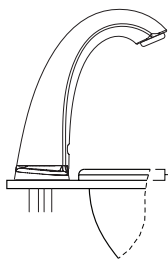
For sensor clearance: 25 mm (1.0") maximum sink lip height from deck

No Cover Plate

For sensor clearance: 10 mm (0.40") maximum sink lip height from deck

OPTIONAL ACCESSORIES

✔	TRANSFORMERS		
	060704A	110 to 24VAC Class II 20VA	(Up to 5 Electronic Valves)
	060771A	110 to 24VAC Class II 40VA	(Up to 10 Electronic Valves)
✔	**CORDS**		
	061256A	36" Cable Extension	

Note: Measurements may vary ± 6mm (0.25")

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SURFACE MOUNT CONTROL BOX #0

	590T SERIES					
✔	**PRODUCT NO.**				**VALVE TYPE**	**COVER**
	590T	0	1	0	Deckmount Handwash Hardwire	Surface Mounted, Vandal Proof Control Housing
	590T	1	1	0	Deckmount Handwash Battery	Surface Mounted, Vandal Proof Control Housing

VANDAL PROOF SURFACE MOUNT CONTROL HOUSING
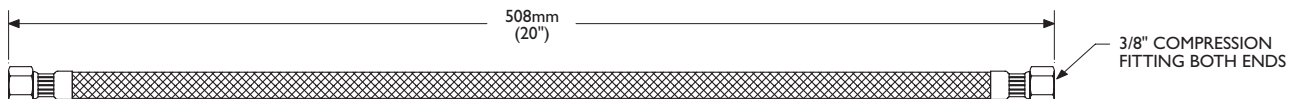
590T SERIES

Battery Operated – Box shown.

Hardwire Version comes complete with Watertight Connector and Hardwire Converter 24VAC to 6VDC.

Hardwire with Battery Backup (Available option for field conversion) comes complete with Watertight Connector, Hardwire Converter 24VAC to 6VDC and 9V battery. **See DSP-BB for detailed specification**.

36 mm (1.43")

146 mm (5.73")

Recommended 381mm (15" max.) to top of counter

3/4" # 10 Screw

139 mm (5.47")

100 mm (3.96")

Battery Pack

3/8" Compression Connection Outlet

Driver Board

Inlet 3/8" NPT or 3/8" Compression Adaptor (Supplied)

89 mm (3.5") MAX
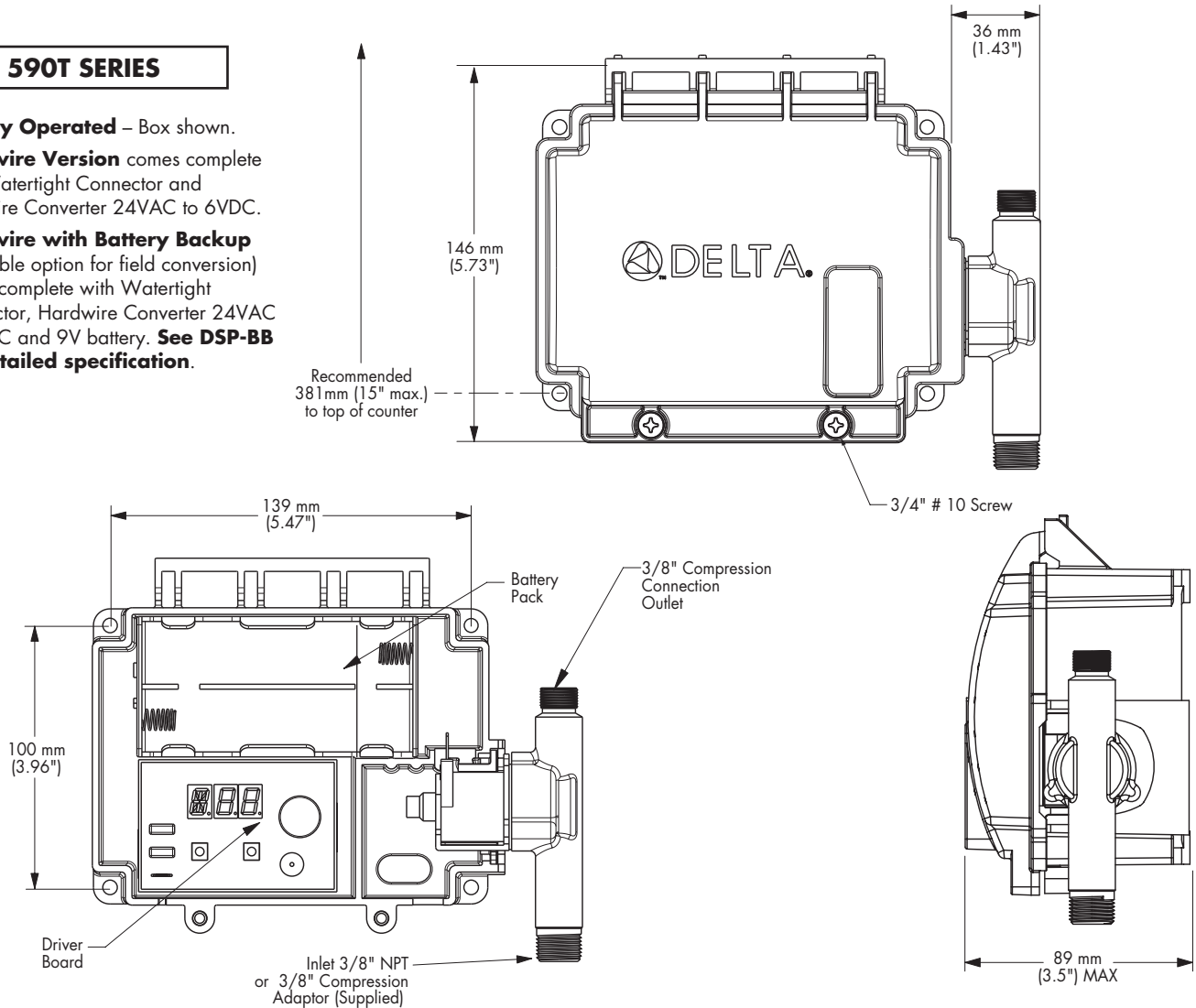
BRAIDED HOSE

Note: Hose connections supplied between Solenoid Valve and Spout

508mm (20")

3/8" COMPRESSION FITTING BOTH ENDS

Note: Measurements may vary ± 6mm (0.25")