OPTEVA® 522 LOBBY CASH DISPENSER
FRONT LOAD
4 HIGH WITH 13mm (1/2") SAFE

CONSULT WITH DIEBOLD INSTALLATION/SERVICE BRANCH FOR ADDITIONAL DETAILS AND INFORMATION. PLEASE SEE PLANNING AND SITE PREPARATION GUIDE TP-821298-001.

**Dimensions in Millimetres (Dimensions in Inches)**

- **Top Function Key**: 1072mm (429/16") x 182mm (715/16")
- **Receipt Printer**: 868mm (347/8") x 133mm (51/8")
- **Keypad (Top Row)**: 837mm (3215/16") x 100mm (4")
- **Headphone Jack (ADA)**: 824mm (3215/16") x 25mm (1")
- **Advanced Function Dispenser**: 679mm (263/8") x 15mm (1/2")
- **Headphone Jack (CSA)**: 953mm (3715/16") x 115mm (41/2")
- **Motorized Card Reader**: 868mm (347/8") x 135mm (51/2")
- **Dip Card Reader**: 868mm (347/8") x 80mm (3")
- **Bar Code Scanner**: 636mm (25")
- **Top of Monitor**: 1176mm (4615/32") x 225mm (81/2")

**Heights - From Bottom of Safe**

- **Depth - From Front Edge of Bezel**

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**Additional Dimensions**

- **POWER CORD - LENGTH**: 2210mm (87") FROM SIDE OF UNIT
- **AIR VENTS**: 0mm TO 76mm (0" TO 3") LEVELING
- **OPTIONAL CONSUMER BAR CODE SCANNER (SEE "CAUTION LABEL" ON SHEET 2 OF 4)

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**Subject to Change Without Notice**

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**File No**: 177-807-REV 2

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**Call 1-800-999-3600**

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**Third Angle Projection**

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**Front View**

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**Side View**

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**Plan View**

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**Third Angle Projection**

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**Front View**
CONDUIT AND JUNCTION BOX REQUIREMENTS

1. 25mm (1") METAL CONDUIT FROM ALARM CONTROL CABLE TO 305mm (12") OR 76mm (3") DP. JUNCTION BOX TO AFTER HOUR DEPOSITORY, OR FROM OWNERS E.C. TO 152mm (6") OR 127mm (5") RIGID CONDUIT FROM BOX TO CABLE CONNECTING PLATE.

2. OWNERS E.C. TO CABLE 305mm (12") METAL CONDUIT FROM 102mm (4") SQ. X 4mm (2") DP. JUNCTION BOX TO AFTER HOUR DEPOSITORY.

3. OWNERS E.C. TO RUN 152mm (6") LIQUID TIGHT FLEX METAL CONDUIT OR 127mm (5") RIGID CONDUIT FROM JUNCTION BOX TO CABLE CONNECTING PLATE.

4. OWNERS E.C. TO CABLE 127mm (5") LIQUID TIGHT ELECTRICAL SUPPLY TO 152mm (6") SQ. X 4mm (2") DP. JUNCTION BOX WITH RECEPTACLE WITHIN 2210mm (87") OF SIZE CONNECTING PLATE. BOTTOM CONNECTION MUST BE COMPENSATED ACCORDINGLY (ALL BY OWNERS E.C.) (SIDE POWER REQUIREMENTS).

5. OWNERS E.C. TO CABLE SUITABLE COMPATIBLE RECEPTACLE FOR COUNTRY SPECIFIC PLUG-IN CONNECTOR SUPPLIED WITH UNIT. POWER CORD LENGTH 2210mm (87") FROM SIDE OF UNIT.

NOTE: JUNCTION BOXES MUST BE LOCA TED WITHIN 2210mm (87") OF CONNECTING PLATE. LENGTH OF ELECTRICAL POWER CABLE PROVIDED WITH UNIT. LOCATE IN AN EASILY ACCESSIBLE AREA. BOXES CAN BE FLUSH MOUNTED WITH CONCEALED CONDUIT FOR NEW CONSTRUCTION OR BOXES CAN BE SURFACE MOUNTED WITH EXPOSED CONDUIT FOR EXISTING CONSTRUCTION.

PHYSICAL SECURITY

THE SECURITY SAFE MEETS THE BANK PROTECTION ACT 82 STAT 295, 10 USC 580, AND MEETS THE ATTACK TEST PER UL 291, 1995. THE SAFE DOOR HAS A POSITIVE RELOCKING FEATURE. THE SAFE DOOR IS CONTROLLED BY A GROUP 2 COMBINATION LOCK OR WITHOUT KEYING CAPABILITY OR OPTIONAL ELECTRONIC LOCK.

ALARM PROTECTION

THE UNLOCKED SAFE IS EQUIPPED WITH A BASIC ALARM SENSOR PACKAGE. THE BASIC PACKAGE INCLUDES A SAFE DOOR OPEN SWITCH, ALARM SHU TTING SWITCH, AND RATE-OF-RISE HEAT SENSOR.

SIGNAL CABLE RUN CONSTRAINTS

THE FOLLOWING CHART DEMONSTRATES THE PHYSICAL SPACING REQUIREMENTS OF THE SIGNAL CABLE RUN WITH RESPECT TO OTHER POWER AND ELECTRICAL EQUIPMENT CABLE RUN.

<table>
<thead>
<tr>
<th>TYPE OF ELECTRICAL RUN</th>
<th>SEPARATION FROM OTHER CABLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELOW 2 KVA</td>
<td>2.5 KVA</td>
</tr>
<tr>
<td>FLUORESCENT, NEON OR INCANDESCENT LIGHTING FIXTURES</td>
<td>127mm (5&quot;)</td>
</tr>
<tr>
<td>UNSHIELDED POWER LINE OR ELECTRICAL EQUIPMENT</td>
<td>127mm (5&quot;)</td>
</tr>
<tr>
<td>UNSHIELDED POWER LINE OR ELECTRICAL EQUIPMENT WITH SIGNAL CABLES ENCLOSED IN GROUNDED CONDUIT</td>
<td>64mm (2 1/2&quot;)</td>
</tr>
<tr>
<td>POWER LINES IN GROUNDED CONDUIT WITH SIGNAL CABLES IN GROUNDED CONDUIT</td>
<td>30mm (1&quot;)</td>
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</tbody>
</table>

SIGNAL CABLE INSTALLATION CONSTRAINTS

RELATIVE CARE IS REQUIRED WHEN INSTALLING SIGNAL CABLES IN CONDUITS, UNLIKE POWER AND LIGHTING CABLES. SIGNAL CABLES HAVE SMALL CONDUCTORS AND LIGHT INSULATION AND WILL NOT WITHSTAND AS MUCH STRAIN IN INSTALLATION.

POWER REQUIREMENTS

THE CASH DISPENSER REQUIRE A SINGLE-PHASE, THREE-WIRE UNSHIELDED POWER RECEPTACLE. WIRING TO THE RECEPTACLE MUST INCLUDE A THIRD-WIRE EARTH GROUND (CONDUIT GROUND IS NOT ACCEPTABLE). THE CASH DISPENSER WILL PROVIDE A POWER CORD WITH A COUNTRY SPECIFIC PLUG. THE POWER SUPPLIED MUST BE AS SPECIFIED BELOW.

<table>
<thead>
<tr>
<th>POWER REQUIREMENTS</th>
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</thead>
<tbody>
<tr>
<td>100-127 VAC (+/-10%) 50Hz (+/-1%) SINGLE PHASE</td>
</tr>
<tr>
<td>100-127 VAC (+/-10%) 60Hz (+/-1%) SINGLE PHASE</td>
</tr>
<tr>
<td>200-240 VAC (+/-10%) 50Hz (+/-1%) SINGLE PHASE</td>
</tr>
<tr>
<td>200-240 VAC (+/-10%) 60Hz (+/-1%) SINGLE PHASE</td>
</tr>
</tbody>
</table>

POWER TO THE CASH DISPENSER IS TO BE A DEDICATED SERVICE AND MUST BE PROTECTED BY A SAFETY QUICK-DISCONNECT DEVICE TO BREAK LINE VOLTAGE SUCH AS A CIRCUIT BREAKER AT THE ELECTRICAL SERVICE PANEL. THE QUICK-DISCONNECT DEVICE (OR CIRCUIT BREAKER) MUST TURN OFF THE LINE VOLTAGE AT THE FOLLOWING AMPERAGE.

<table>
<thead>
<tr>
<th>POWER REQUIREMENTS</th>
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</thead>
<tbody>
<tr>
<td>100-127 VAC (+/-10%) 50Hz (+/-1%) SERVICE, DISCONNECT AT 20 AMPERES</td>
</tr>
<tr>
<td>200-240 VAC (+/-10%) SERVICE, DISCONNECT AT 10 AMPERES</td>
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</tbody>
</table>

THE MODULES BULK POWER SUPPLY AND PROCESSOR POWER SUPPLY WILL PROVIDE POWER CONDITIONING TO PREVENT THE TERMINAL FROM MALFUNCTIONING DUE TO SHORT-TERM AC POWER FLUCTUATIONS AS OUTLINED IN EN61000-4-11.

POWER USAGE

<table>
<thead>
<tr>
<th>MACHINERY STATUS</th>
<th>POWER USAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDLE NO TRANSACTIONS</td>
<td>169 WATTS</td>
</tr>
<tr>
<td>TRANSACTION IN PROGRESS</td>
<td>230 WATTS</td>
</tr>
</tbody>
</table>

CONFIGURATION

1. PROCESSOR, CO-ON (CO-COMMUTER DISPLAY, MOTORIZED CARD READER, RECEIPT PRINTER, AND CASSETTE DISPENSER)

THE POWER USAGE DEPENDS ON THE NUMBER AND TYPE OF DEVICES PRESENT IN THE CASH DISPENSER, AND THE TYPE OF TRANSACTION THE CASH DISPENSER IS PERFORMING.

HEAT OUTPUT CONFIGURATION

760 BTU/HOUR

OPERATING ENVIRONMENT

<table>
<thead>
<tr>
<th>SAFE LOCATION</th>
<th>TEMPERATURE</th>
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</thead>
<tbody>
<tr>
<td>10º C TO 40º C (50º F TO 104º F)</td>
<td></td>
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<tr>
<td>20 TO 55% AT 40º C (104º F)</td>
<td></td>
</tr>
</tbody>
</table>

WEIGHT OF UNIT

381kg (840 LBS.)

CAUTION LABEL

CAUTION: LASER Do not stare into beam
NOTE: SHOWN IS THE MINIMUM/RECOMMENDED AREA REQUIRED FOR INSTALLATION AND SERVICE. DIMENSIONS SHOWN MAY BE INCREASED WHEREVER POSSIBLE TO IMPROVE INSTALLATION AND SERVICE ACCESS. USE OF ANY AREA LESS THAN THE RECOMMENDED AREA MAY RESULT IN AN INCREASE IN INSTALLATION AND SERVICE TIME. CONSULT WITH DIEBOLD INSTALLATION/SERVICE BRANCH FOR SPECIAL BUILDING CONDITIONS.
NOTES:

FOR ADDITIONAL SECURITY: IT IS RECOMMENDED THAT THE CASH DISPENSER SAFE BE SECURED TO THE FLOOR WITH ANCHOR BOLTS. USE THE FOLLOWING GUIDELINES TO DETERMINE THE APPROPRIATE METHOD FOR YOUR INSTALLATION.

ANCHORING THE CASH DISPENSER TO CONCRETE FLOORS:
IT IS RECOMMENDED THAT THE CASH DISPENSER BE ANCHORED TO CONCRETE FLOORS WHENEVER POSSIBLE. DIEBOLD RECOMMENDS USING A M20 OR 19mm (3/4") ANCHOR BOLT THAT IS 203mm (8") LONG. CONCRETE FLOORS OR CONCRETE BASES MUST BE A MINIMUM OF 102mm (4") THICK FOR ANCHORING TO BE EFFECTIVE. THERE IS NO LIMIT FOR MAXIMUM THICKNESS. ANCHOR BOLTS MUST BE USED IN ALL AVAILABLE ANCHOR HOLES. IF THE TERMINAL IS EQUIPPED WITH LEGS, THE LEVELING LEGS MUST BE REMOVED BEFORE THE TERMINAL IS ANCHORED. REFER TO VIEW "A" AND "B" FOR ADDITIONAL DETAILS.

ANCHORING THE CASH DISPENSER TO WOOD FLOORING:
CASH DISPENSERS INSTALLED ON WOOD FLOORS OR FLOORS SUPPORTED BY WOODED BEAMS CAN BE SECURED BY A MACHINE-THREADED NUT AND BOLT METHOD. IT IS PREFERRED THAT THE HARDWARE BE ATTACHED THROUGH SUPPORTING POSTS OR BEAMS FOR MAXIMUM HOLDING CAPACITY. ADDITIONALLY, THIS HARDWARE MUST ATTACH TO A LOCALLY FABRICATED REINFORCEMENT PLATE INSTALLED UNDERNEATH THE FLOOR TO PROVIDE ADDITIONAL STRENGTH. THE REINFORCEMENT PLATE IS TYPICALLY 4mm (5/32") THICK. IT IS IMPORTANT TO NOTE THAT THE OVERALL HOLDING CAPACITY OF A WOOD FLOOR WILL BE LESS THAN THAT OF CONCRETE FLOORS.

ANCHORING THE CASH DISPENSER TO STEEL FLOORS:
CASH DISPENSERS INSTALLED ON STEEL FLOORS CAN BE SECURED BY A MACHINE-THREADED METHOD. IT IS PREFERRED THAT THE HARDWARE BE ATTACHED THROUGH SUPPORTING POSTS OR BEAMS FOR MAXIMUM HOLDING CAPACITY. ADDITIONALLY, THIS HARDWARE MUST ATTACH TO A LOCALLY FABRICATED REINFORCEMENT PLATE INSTALLED UNDERNEATH THE FLOOR TO PROVIDE ADDITIONAL STRENGTH. THE COMBINED BACKING PLATE AND FLOOR THICKNESS MUST BE AT LEAST 13mm (1/2").

CABLE ENTRY:

POWER CABLE PLATE

VIEW "A"
MINIMUM HOLE DEPTH
203mm (8"

VIEW "B"
MINIMUM CONCRETE DEPTH
102mm (4"

PLAN VIEW - ADJACENT UNITS
(MINIMUM SERVICE AREA)