TX (TRANSMITTER)

RX (RECEIVER)

Path Length: 5 - 200 m (Gas Dependent)

TERMINAL ENCLOSURE SCREW LID & CERTIFICATION PLATE

TERMINAL ENCLOSURE SCREW LID & CERTIFICATION PLATE

S.No Sxxxxxx
(SERIAL NUMBER)

S.No Sxxxxxx
(SERIAL NUMBER)

ELDS TRANSMITTER

ELDS RECEIVER

All Dimensions in mm unless stated

METRIC TOLERANCES

UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M)

0.5 TO >6
>130 TO >120 TO >400 TO >1000

ANGULAR

6mm
30mm
120mm
400mm
1000mm

SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE Tolerances

DO NOT SCALE DWG.

MSA STANDARD SHOP PRACTICES APPLY

CODE SYMBOLS

CRITICAL △ CRITICAL
MAJOR A MAJOR
MINOR B MINOR (NO MARK)
100% INSPECTION C
MINOR (NO MARK)

INSTALLATION OUTLINE DRAWINGS

GENERAL ARRANGEMENT

01-01-2556-D

Rev 1 - 21/3/17
Rev 2 - 23/3/18 DR 226

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A Senscient ELDS Series 2000 system is made up of a Transmitter and Receiver (Receiver not shown). The illustrations show the Transmitter Unit (Tx) and Receiver (Rx) unit with their respective dimensions and mounting details. The transmitter and receiver are designed to be mounted on a pole, with a recommended 6" bracket. The materials and weights for different units are listed in the table below:

<table>
<thead>
<tr>
<th>UNIT</th>
<th>WEIGHT (Kg)</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket</td>
<td>3.05</td>
<td>SS 316</td>
</tr>
<tr>
<td>Sunshade</td>
<td>1.0</td>
<td>SS 316</td>
</tr>
<tr>
<td>Rx (Unit Only)</td>
<td>7.4</td>
<td>SS 316</td>
</tr>
<tr>
<td>Tx (Unit Only)</td>
<td>8.2</td>
<td>SS 316</td>
</tr>
<tr>
<td>Rx (Complete)</td>
<td>11.45</td>
<td>SS 316</td>
</tr>
<tr>
<td>Tx (Complete)</td>
<td>12.24</td>
<td>SS 316</td>
</tr>
</tbody>
</table>

M25 or 3/4 NPT cable entry is dependent on certification. The 6" (152mm) bracket is recommended for pole mounting, supporting 4 - 6" sections. All dimensions are in mm unless stated.
Illustrations of Senscient ELDS Series 2000 Transmitter (Tx) - For Reference only.
A Senscient ELDS Series 2000 system is made up of a Transmitter and Receiver (Receiver not Shown)

<table>
<thead>
<tr>
<th>UNIT</th>
<th>WEIGHT (Kg)</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket</td>
<td>3.05</td>
<td>SS-316</td>
</tr>
<tr>
<td>Enhanced Sunshade</td>
<td>4</td>
<td>SS-316</td>
</tr>
<tr>
<td>Rx (Unit Only)</td>
<td>7.4</td>
<td>SS-316</td>
</tr>
<tr>
<td>Tx (Unit Only)</td>
<td>8.2</td>
<td>SS-316</td>
</tr>
<tr>
<td>Rx (Complete)</td>
<td>14.45</td>
<td>SS-316</td>
</tr>
<tr>
<td>Tx (Complete)</td>
<td>15.25</td>
<td>SS-316</td>
</tr>
</tbody>
</table>

All Dimensions in mm unless stated.
Illustrations of Senscient ELDS Series 2000 Transmitter Unit (Tx) with Optional Snow Shield - For Reference only.

A Senscient ELDS Series 2000 system is made up of a Transmitter and Receiver (Receiver not shown)

<table>
<thead>
<tr>
<th>UNIT</th>
<th>WEIGHT (Kg)</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket</td>
<td>3.05</td>
<td>SS 316</td>
</tr>
<tr>
<td>Snow Cover</td>
<td>3.5</td>
<td>SS 316</td>
</tr>
<tr>
<td>Rx (Unit Only)</td>
<td>7.4</td>
<td>SS 316</td>
</tr>
<tr>
<td>Tx (Unit Only)</td>
<td>8.2</td>
<td>SS 316</td>
</tr>
<tr>
<td>Rx (Complete)</td>
<td>13.95</td>
<td>SS 316</td>
</tr>
<tr>
<td>Tx (Complete)</td>
<td>14.75</td>
<td>SS 316</td>
</tr>
</tbody>
</table>

All Dimensions in mm unless stated

*Code Symbols*
- CAPITAL
- MAJOR
- MINOR
- NON-MARK
- 100% INSPECTION
- RELIEF
- CRITICAL
- MAJOR A
- MAJOR B
- MINOR A
- MINOR B
- CRITICAL
- 100% INSPECTION
- MINOR A
- NON-MARK
- 100% INSPECTION
- RELIEF
- MAJOR A
- MAJOR B
- CRITICAL
- 100% INSPECTION
- MINOR A
- NON-MARK
- 100% INSPECTION
- RELIEF

*Metric Tolerances*

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unspecified</td>
<td>0.1</td>
</tr>
<tr>
<td>30mm</td>
<td>0.2</td>
</tr>
<tr>
<td>120mm</td>
<td>0.3</td>
</tr>
<tr>
<td>400mm</td>
<td>0.5</td>
</tr>
<tr>
<td>1000mm</td>
<td>0.8</td>
</tr>
</tbody>
</table>

*Angles Tolerances*

- 6mm
- 1/2
Illustrations of Senscient ELDS Series 2000 Transmitter Unit (Tx) with FM Approval - For Reference only.

A Senscient ELDS Series 2000 system is made up of a Transmitter and Receiver (Receiver not shown)

UNIT | WEIGHT (Kg) | MATERIAL
---|---|---
Bracket (FM) | 3.7 | SS 316
Sunshade (FM) | 0.9 | SS 316
Rx (Unit Only) | 8 | SS 316
Tx (Unit Only) | 8.9 | SS 316
Rx (Complete) | 12.6 | SS 316
Tx (Complete) | 17.2 | SS 316

All Dimensions in mm unless stated
Illustrations of Senscient ELDS Series 2000 Mounting Bracket Footprint - For Reference only.

A Senscient ELDS Series 2000 system is made up of a Transmitter and Receiver (Both not shown)
Illustrations of Enhanced Sunshade for Senscient ELDS Series 2000 Unit - For Reference only.
A Senscient ELDS Series 2000 system is made up of a Transmitter and Receiver (not shown).

Material: SS 316

All Dimensions in mm unless stated

SCALE 2 : 5

Details A
Terminal PCB Example (Tx - Transmitter Shown)

Nominal Power Supply 24 V DC
Power Supply Range 18 - 32 V DC

Power Supply Connections, Wiring, and Fuses

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>MAXIMUM POWER CONSUMPTION</th>
<th>MAXIMUM CABLE LENGTH WITH 1.5mm² CONDUCTORS (12 Ohms/Km) AND 24 VDC SUPPLY</th>
<th>MAXIMUM CABLE LENGTH WITH 2.5mm² CONDUCTORS (7.6 Ohms/Km) AND 24 VDC SUPPLY</th>
<th>TERMINAL SIZES</th>
<th>MINIMUM FUSE RATING</th>
<th>RECOMMENDED FUSE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter</td>
<td>12 W</td>
<td>450 m (1476 ft)</td>
<td>710 m (2329 ft)</td>
<td>0.5 mm² - 2.5 mm² (20 AWG - 14 AWG)</td>
<td>1 A</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Receiver</td>
<td>10 W</td>
<td>375 m (1230 ft)</td>
<td>1936 m (1936 ft)</td>
<td>0.5 mm² - 2.5 mm² (20 AWG - 14 AWG)</td>
<td>0.75 A</td>
<td>1 A</td>
</tr>
<tr>
<td>System (Tx+Rx)</td>
<td>22W</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1.75 A</td>
<td>2.0 A</td>
</tr>
</tbody>
</table>

All Dimensions in mm unless stated
ELDS Transmitter Connections
CONTROL CABINET CONNECTIONS

**TX TERMINAL COMPARTMENT**

- 1
- 2
- 3
- 4
- +24V
- 0V

**SCREEN/SHIELD**

- 0V
- +24V

**SAFETY / PROTECTIVE EARTH**

**INSTRUMENT EARTH (CLEAN)**

ELDS Receiver Connections (Current Source)

**RX TERMINAL COMPARTMENT**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- +24V

**SCREEN/SHIELD**

**INSTRUMENT EARTH (CLEAN)**

**SAFETY / PROTECTIVE EARTH**

**4-20mA (1)**

**4-20mA (2)**

All Dimensions in mm unless stated

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Revisions

REV 1 - 21-3-17

Rev 2 - 23/3/18 DR 226

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