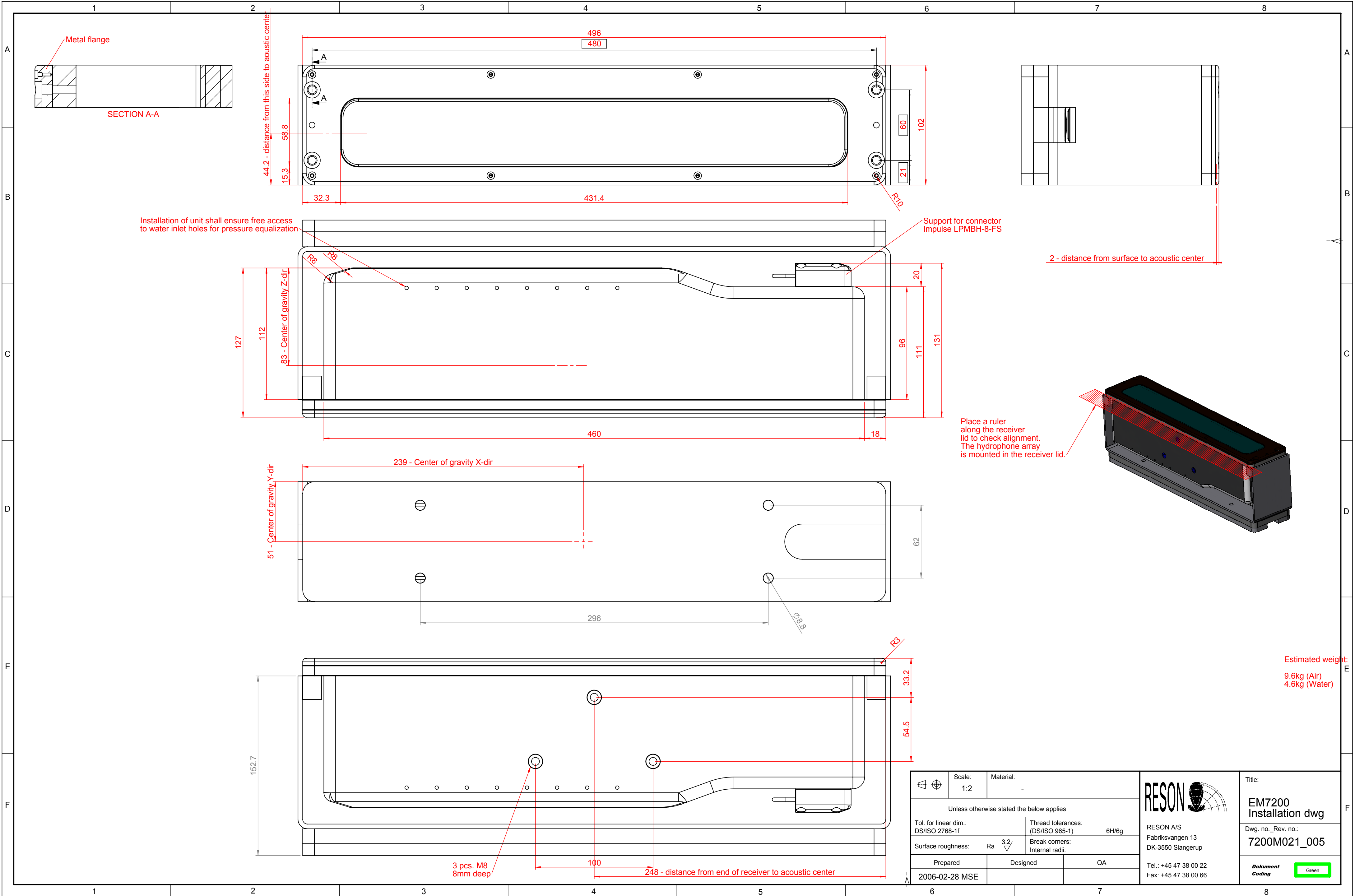
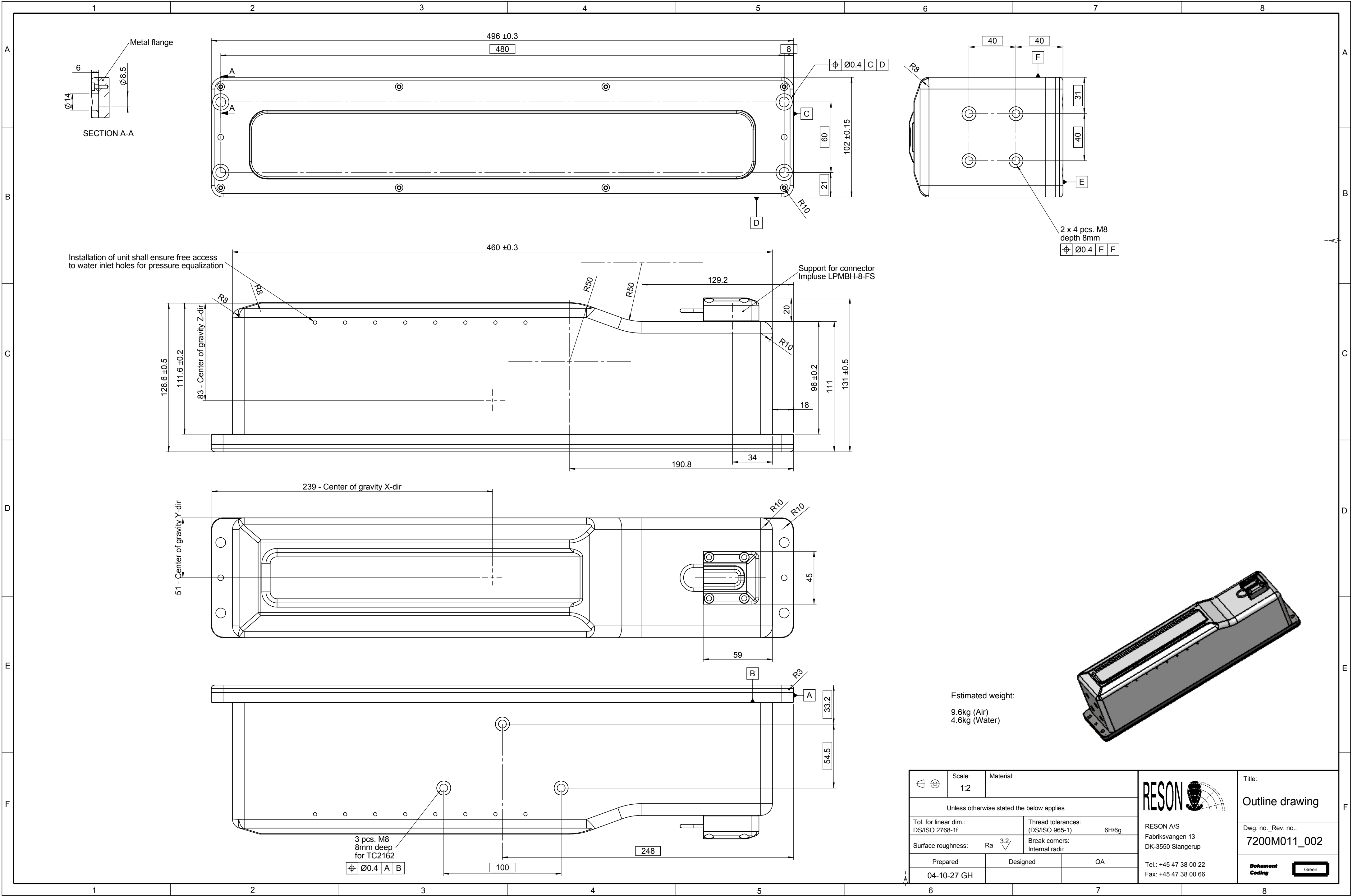
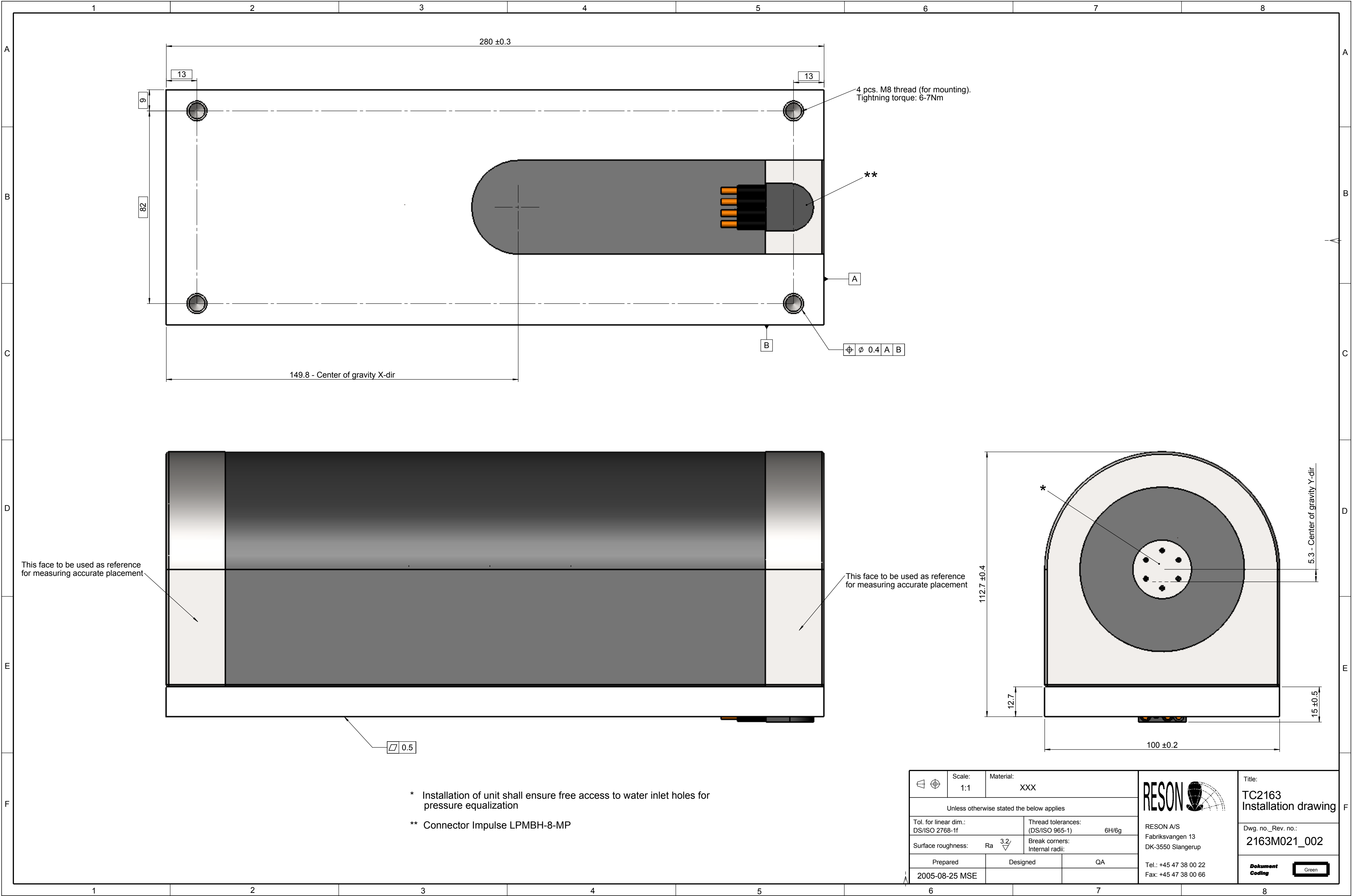




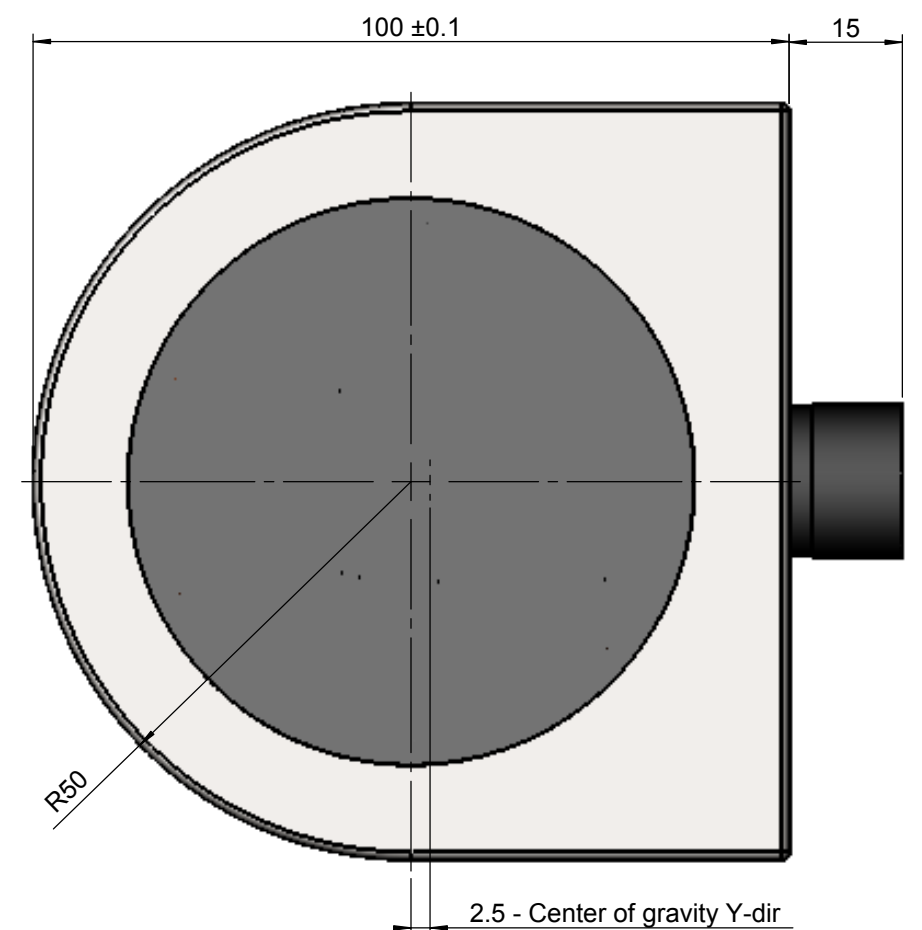
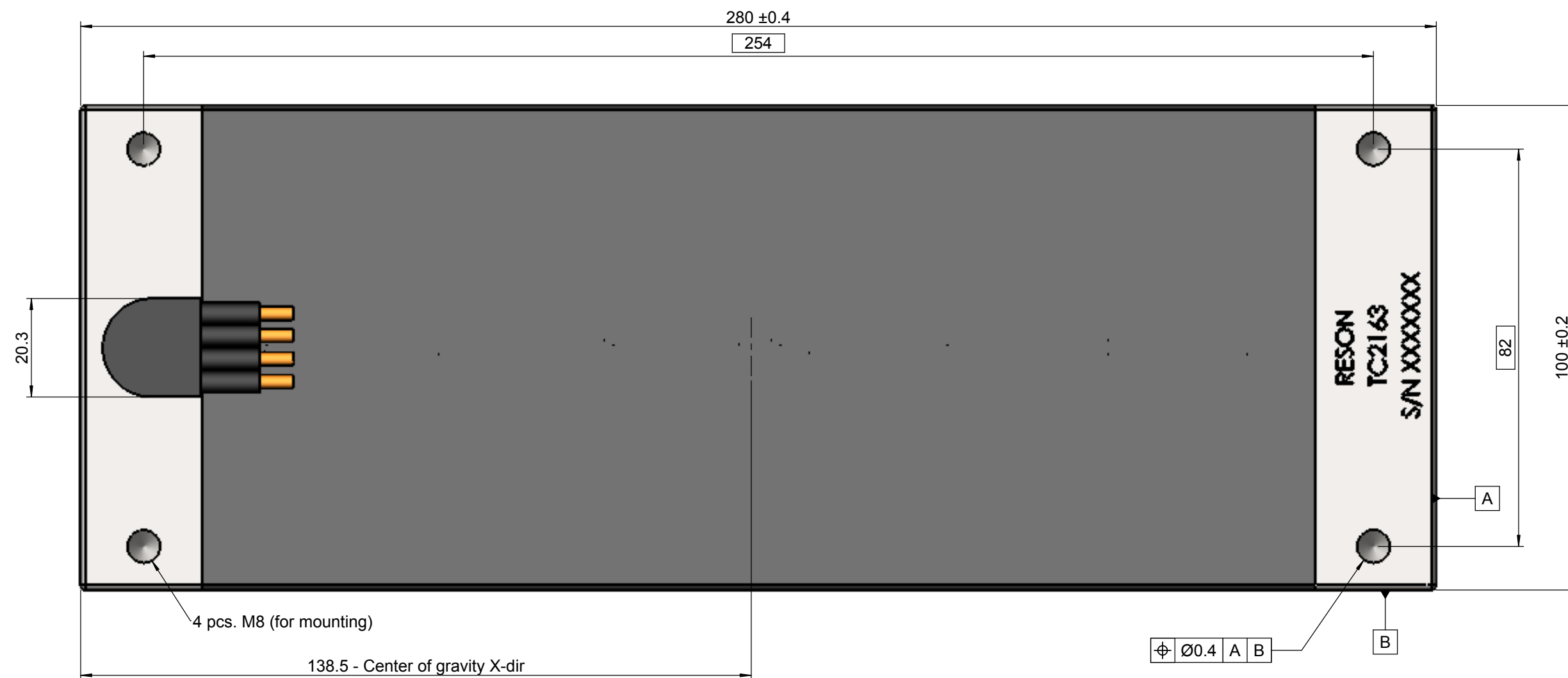
Estimated weight:  
9.6kg (Air)  
4.6kg (Water)

|                                                        |          |                                            |                                                                                                        |
|--------------------------------------------------------|----------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                                        |          | Scale:<br>1:2                              | Material:<br>-                                                                                         |
| Unless otherwise stated the below applies              |          |                                            |                                                                                                        |
| Tol. for linear dim.:<br>DS/ISO 2768-1f                |          | Thread tolerances:<br>(DS/ISO 965-1) 6H/6g |                                                                                                        |
| Surface roughness: Ra 3.2                              |          | Break corners:<br>Internal radii:          |                                                                                                        |
| Prepared                                               | Designed | QA                                         |                                                                                                        |
| 2006-02-28 MSE                                         |          |                                            |                                                                                                        |
| <br>RESON A/S<br>Fabriksvangen 13<br>DK-3550 Slangerup |          |                                            | Title:<br>EM7200<br>Installation dwg<br>Dwg. no._Rev. no.:<br>7200M021_005<br>Dokument Coding<br>Green |
| Tel.: +45 47 38 00 22<br>Fax: +45 47 38 00 66          |          |                                            |                                                                                                        |



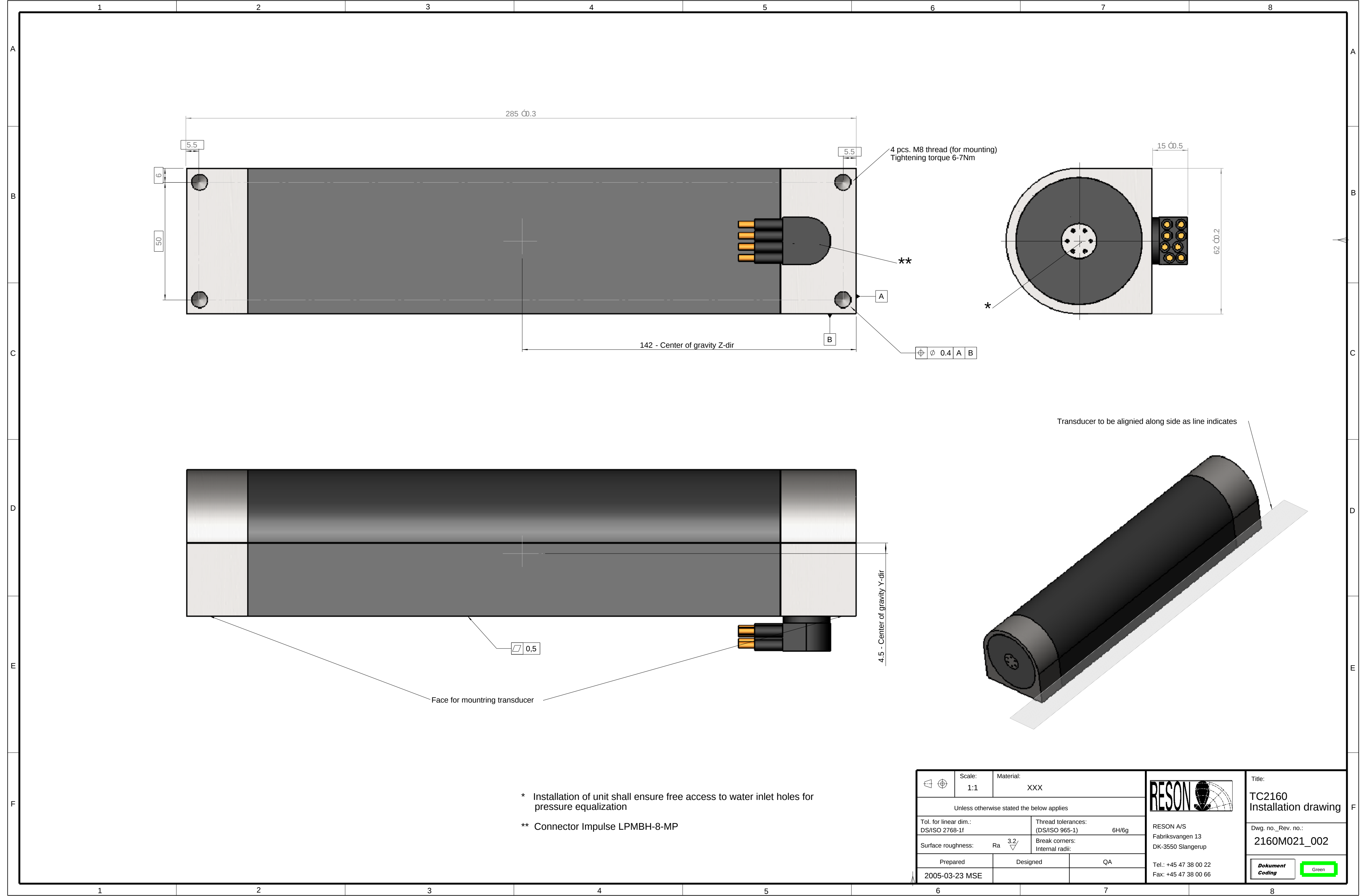


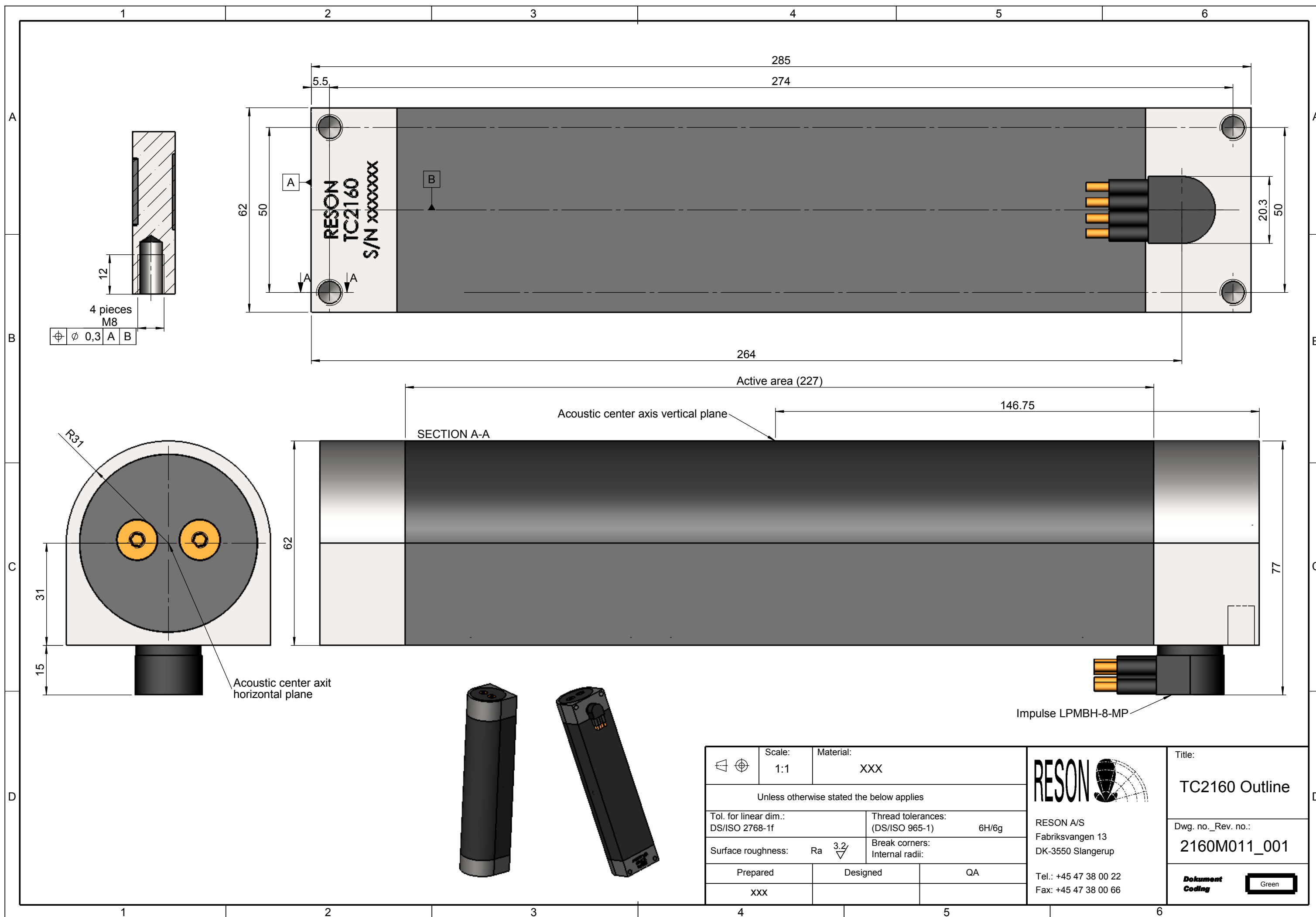
|                                                                                                                    |               |                                            |                                                                                                                                          |                                          |
|--------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|                               | Scale:<br>1:1 | Material:<br>XXX                           |                                                     | Title:<br>TC2163<br>Installation drawing |
| Unless otherwise stated the below applies                                                                          |               |                                            |                                                                                                                                          |                                          |
| Tol. for linear dim.:<br>DS/ISO 2768-1f                                                                            |               | Thread tolerances:<br>(DS/ISO 965-1) 6H/6g |                                                                                                                                          |                                          |
| Surface roughness:<br>Ra 3.2  |               | Break corners:<br>Internal radii:          |                                                                                                                                          |                                          |
| Prepared                                                                                                           | Designed      | QA                                         | RESON A/S<br>Fabriksvangen 13<br>DK-3550 Slangerup<br><br>Tel.: +45 47 38 00 22<br>Fax: +45 47 38 00 66                                  | Dwg. no. Rev. no.:<br>2163M021_002       |
| 2005-08-25 MSE                                                                                                     |               |                                            |                                                                                                                                          |                                          |
|                                                                                                                    |               |                                            | <div><b>Dokument Coding</b></div> <div> Green</div> |                                          |



Mass properties:  
7.5kg (Air)  
6.4kg (Water)

|                                                                                       |               |                                               |                                                                                                     |                                       |
|---------------------------------------------------------------------------------------|---------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------|
|  | Scale:<br>1:1 | Material:<br>XXX                              |                | Title:<br>TC2163<br>Outline dimension |
| Unless otherwise stated the below applies                                             |               |                                               |                                                                                                     |                                       |
| Tol. for linear dim.:<br>DS/ISO 2768-1f                                               |               | Thread tolerances:<br>(DS/ISO 965-1)<br>6H/6g |                                                                                                     |                                       |
| Surface roughness:<br>Ra 3.2/√                                                        |               | Break corners:<br>Internal radii:             |                                                                                                     |                                       |
| Prepared                                                                              | Designed      | QA                                            | RESON A/S<br>Fabriksvangen 13<br>DK-3550 Slangerup<br>Tel.: +45 47 38 00 22<br>Fax: +45 47 38 00 66 | Dwg. no. _Rev. no.:<br>2163M011_003   |
| 2005-03-30 MSE                                                                        |               |                                               |                                                                                                     |                                       |
|                                                                                       |               |                                               |                |                                       |





4

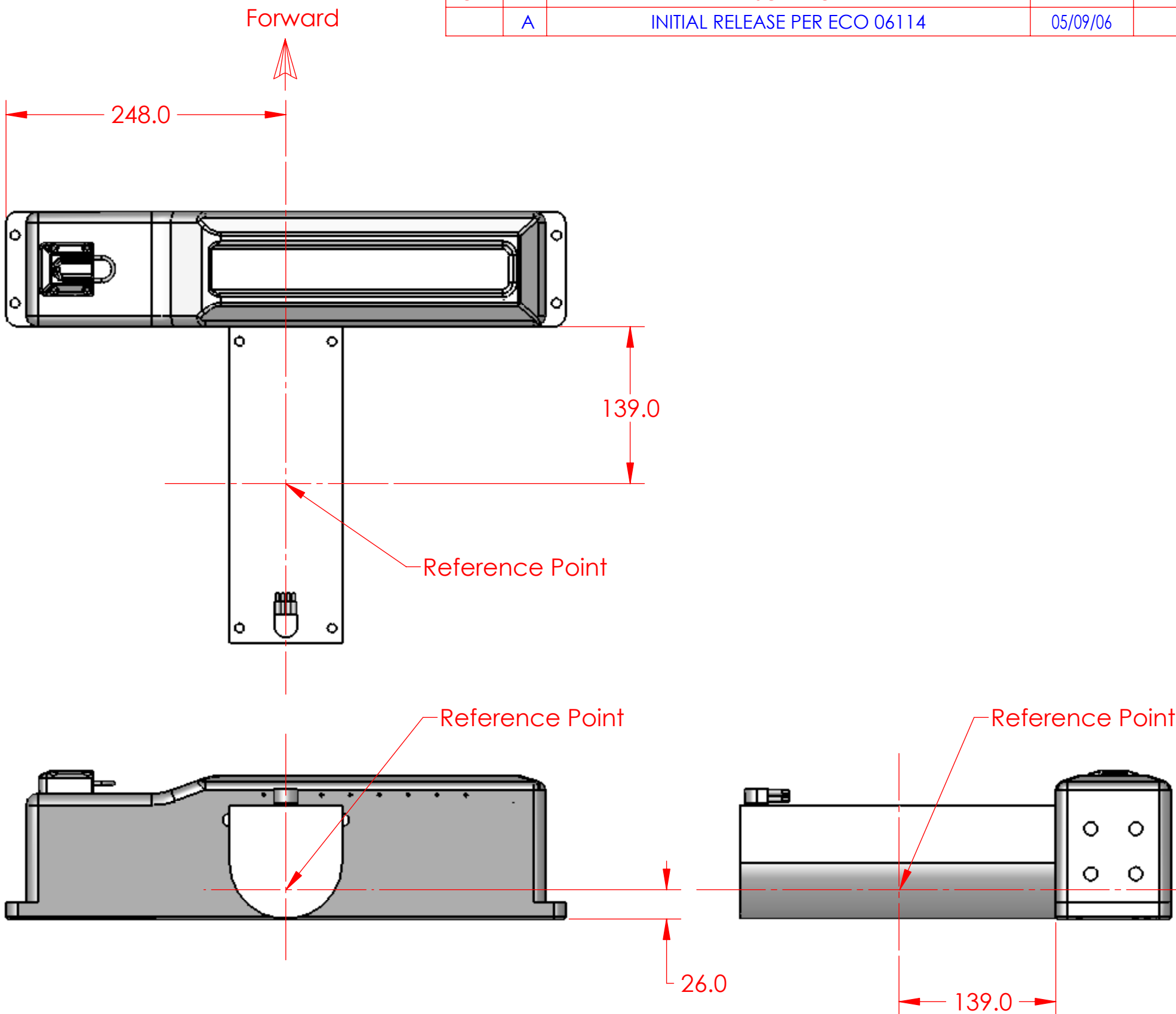
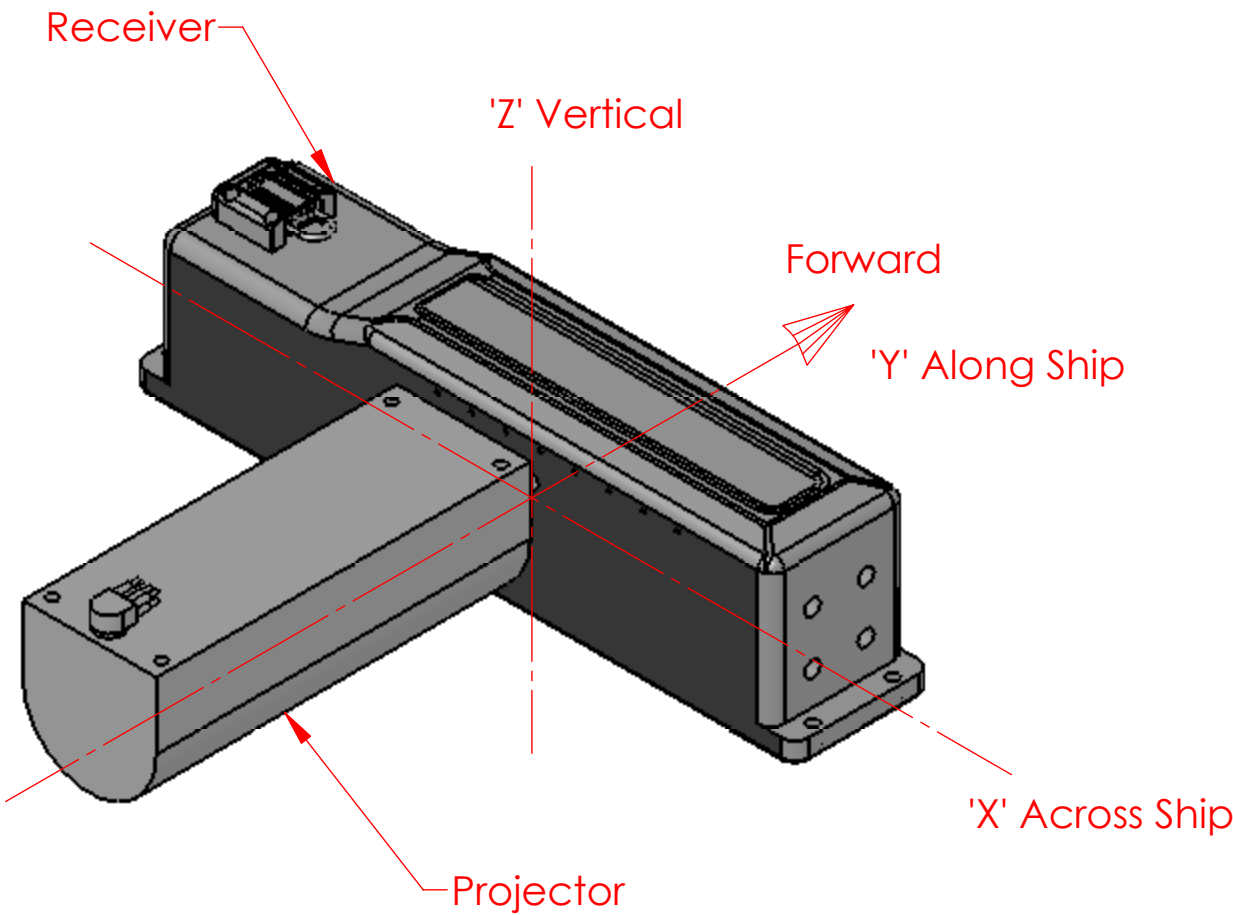
3

2

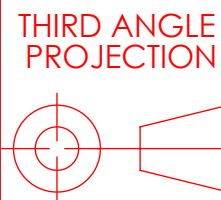
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| REVISIONS |     |                               |          |          |
|-----------|-----|-------------------------------|----------|----------|
| ZONE      | LTR | DESCRIPTION                   | DATE     | APPROVED |
|           | A   | INITIAL RELEASE PER ECO 06114 | 05/09/06 | RL       |



- Notes:
1. It is critical that the faces of the Projector and Receiver are aligned in the vertical ('Z') Plane within  $\pm 2.0$  mm
  2. Alignment along ship ('Y') plane, and across ship ('x') plane should be within  $\pm 250$  mm



12851.DRW  
SolidWorks Drawing File

|             |         |                                                                                                                |                 |                                                                                                                                  |                                           |               |  |
|-------------|---------|----------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------|--|
|             |         | UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN MILIMETERS<br>DO NOT SCALE DRAWING<br>DIMENSIONS ARE REFERENCE | DESIGNED:       | <br>RESON, INC.<br>GOLETA, CALIFORNIA 93117 |                                           |               |  |
|             |         |                                                                                                                | DATE:           |                                                                                                                                  |                                           |               |  |
|             |         |                                                                                                                | DRAWN I SALINAS |                                                                                                                                  | TITLE:<br><br>SEABAT 7125 REFERENCE POINT |               |  |
|             |         |                                                                                                                | DATE: 05/09/06  |                                                                                                                                  |                                           |               |  |
|             |         |                                                                                                                | CHECKED R LEAR  |                                                                                                                                  |                                           |               |  |
|             |         |                                                                                                                | DATE: 05/09/06  | SIZE:<br><br>C                                                                                                                   | DRAWING NO:<br><br>12851                  | REV:<br><br>A |  |
|             |         |                                                                                                                | RELEASED R LEAR |                                                                                                                                  |                                           |               |  |
|             |         |                                                                                                                | DATE: 05/09/06  | SCALE: 1:4                                                                                                                       |                                           | SHEET: 1 of 1 |  |
| NEXT ASSY   | USED ON |                                                                                                                |                 |                                                                                                                                  |                                           |               |  |
| APPLICATION |         |                                                                                                                |                 |                                                                                                                                  |                                           |               |  |

4

3

2

1

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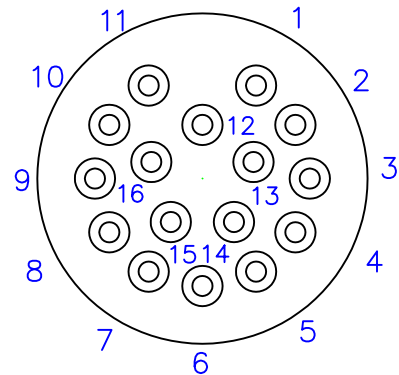
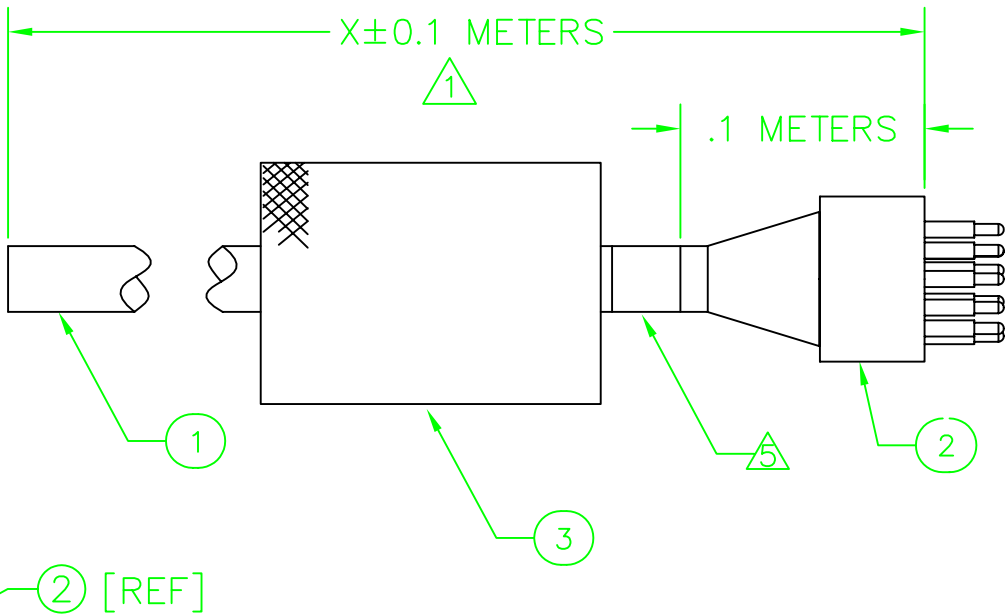
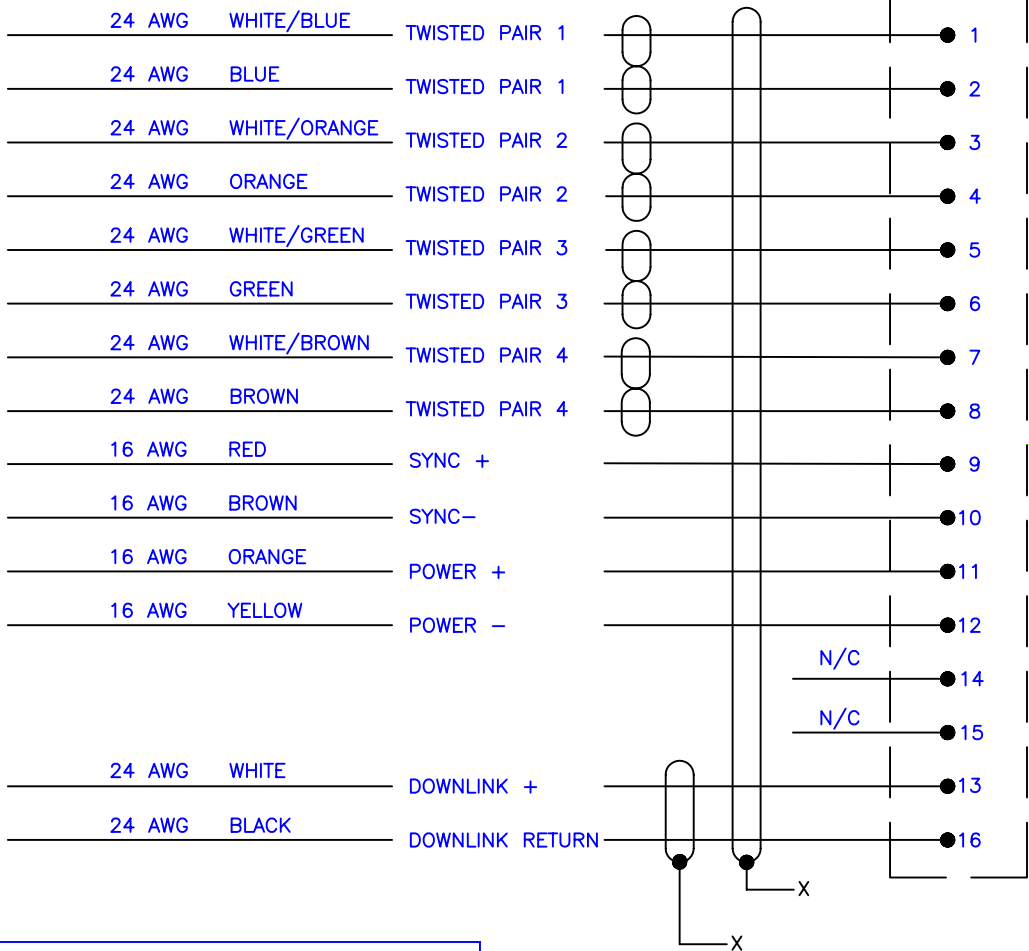
NOTES: UNLESS OTHERWISE SPECIFIED

- X IS BUILD LEVEL AND CABLE LENGTH IN METERS.
- ITEMS 2 AND 3 ARE VENDOR SUPPLIED PARTS. 100% EQUIVALENT PARTS MAY BE USED, BUT ONLY AFTER RESON APPROVAL.
- NO STRAIN RELIEF LOOPS ON WIRES.
- CABLES NOT TO BE UNTWISTED MORE THAN 9.5MM AT EACH END.

- LABEL: TEXT SIZE 0.156"  
RESON PN, REV \_\_\_\_
- LABEL TO BE PERMANENTLY ATTACHED TO CABLE.
- OBSERVED MINIMUM BEND RADIUS OF 6.0 INCHES DURING HANDLING, PACKAGING, OR INSTALLATION.

REVISIONS

| ZONE | LTR | DESCRIPTION                   | DATE     | APPROVED |
|------|-----|-------------------------------|----------|----------|
|      | A   | INITIAL RELEASE PER ECO 04089 | 04-03-09 | RQA      |
|      | B   | RELEASED PER ECO 04429        | 04-10-15 | DFL      |
|      | C   | RELEASED PER ECO 04497        | 04-12-06 | RQA      |
|      | D   | RELEASED PER ECO 06003        | 06-02-09 | DFL      |



| CONFIGURATION TABLE |          |        |
|---------------------|----------|--------|
| DASH NO.            | RESON PN | LENGTH |
| -5                  | 85000937 | 5m     |
| -25                 | 85001154 | 25m    |

ACAD FILE: 12019d.DWG

| 1   | 64500067    | LOCKING SLEEVE, FEMALE (IMPULSE: DLSB-F)      | 3    | 0     |
|-----|-------------|-----------------------------------------------|------|-------|
| 1   | 64500059    | CONNECTOR, MIL-16-MP                          | 2    | 0     |
| Xm  | 67700021    | CABLE, PER RESON DRAWING # 11676 (SEE NOTE 1) | 1    | 0     |
| QTY | PART NUMBER | DESCRIPTION                                   | ITEM | LEVEL |

|                        |  |         |  |                                                                                                                                                                                                          |  |                     |  |                                                                      |  |                   |  |               |  |
|------------------------|--|---------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|----------------------------------------------------------------------|--|-------------------|--|---------------|--|
| THIRD ANGLE PROJECTION |  |         |  | UNLESS OTHERWISE SPECIFIED                                                                                                                                                                               |  | DESIGNED: R. ABBOTT |  | <div>RESON</div> <div>RESON, INC.<br/>GOLETA, CALIFORNIA 93117</div> |  |                   |  |               |  |
|                        |  |         |  | DIMENSIONS ARE IN INCHES<br>DO NOT SCALE DRAWING                                                                                                                                                         |  | DATE: 03-03-06      |  |                                                                      |  |                   |  |               |  |
|                        |  |         |  | <div>TOLERANCES</div> <div>.XX ±0.03<br/>.XXX ±0.010<br/>X" ±0.5"</div> <div>REMOVE ALL BURRS</div> <div>BREAK CORNERS: 0.005/0.010</div> <div>INTERNAL RADII: 0.005/0.001</div> <div>FINISH: 125✓</div> |  | DRAWN A ROSS        |  | TITLE:<br>CABLE ASSY, PIGTAIL,<br>MIL-16-MP, 7K                      |  |                   |  |               |  |
|                        |  |         |  |                                                                                                                                                                                                          |  | DATE: 03-03-06      |  |                                                                      |  |                   |  |               |  |
|                        |  |         |  |                                                                                                                                                                                                          |  | CHECKED R. ABBOTT   |  |                                                                      |  |                   |  |               |  |
|                        |  |         |  |                                                                                                                                                                                                          |  |                     |  | DATE: 03-11-24                                                       |  | DRAWING NO: 12019 |  | REV: D        |  |
| NONE                   |  | 7XXX    |  |                                                                                                                                                                                                          |  | RELEASED R. ABBOTT  |  |                                                                      |  |                   |  |               |  |
| NEXT ASSY              |  | USED ON |  |                                                                                                                                                                                                          |  | DATE: 04-03-09      |  | SIZE: C                                                              |  | SCALE: NONE       |  | SHEET: 1 of 1 |  |
| APPLICATION            |  |         |  |                                                                                                                                                                                                          |  |                     |  |                                                                      |  |                   |  |               |  |

TOLERANCES  
.XX ±0.03  
.XXX ±0.010  
X" ±0.5"  
REMOVE ALL BURRS  
BREAK CORNERS: 0.005/0.010  
INTERNAL RADII: 0.005/0.001  
FINISH: 125



RESON, INC.  
GOLETA, CALIFORNIA 93117

CABLE ASSY, PIGTAIL,  
MIL-16-MP, 7K

DRAWING NO:

12019

REV:

D

SIZE: C

SCALE: NONE

SHEET: 1 of 1

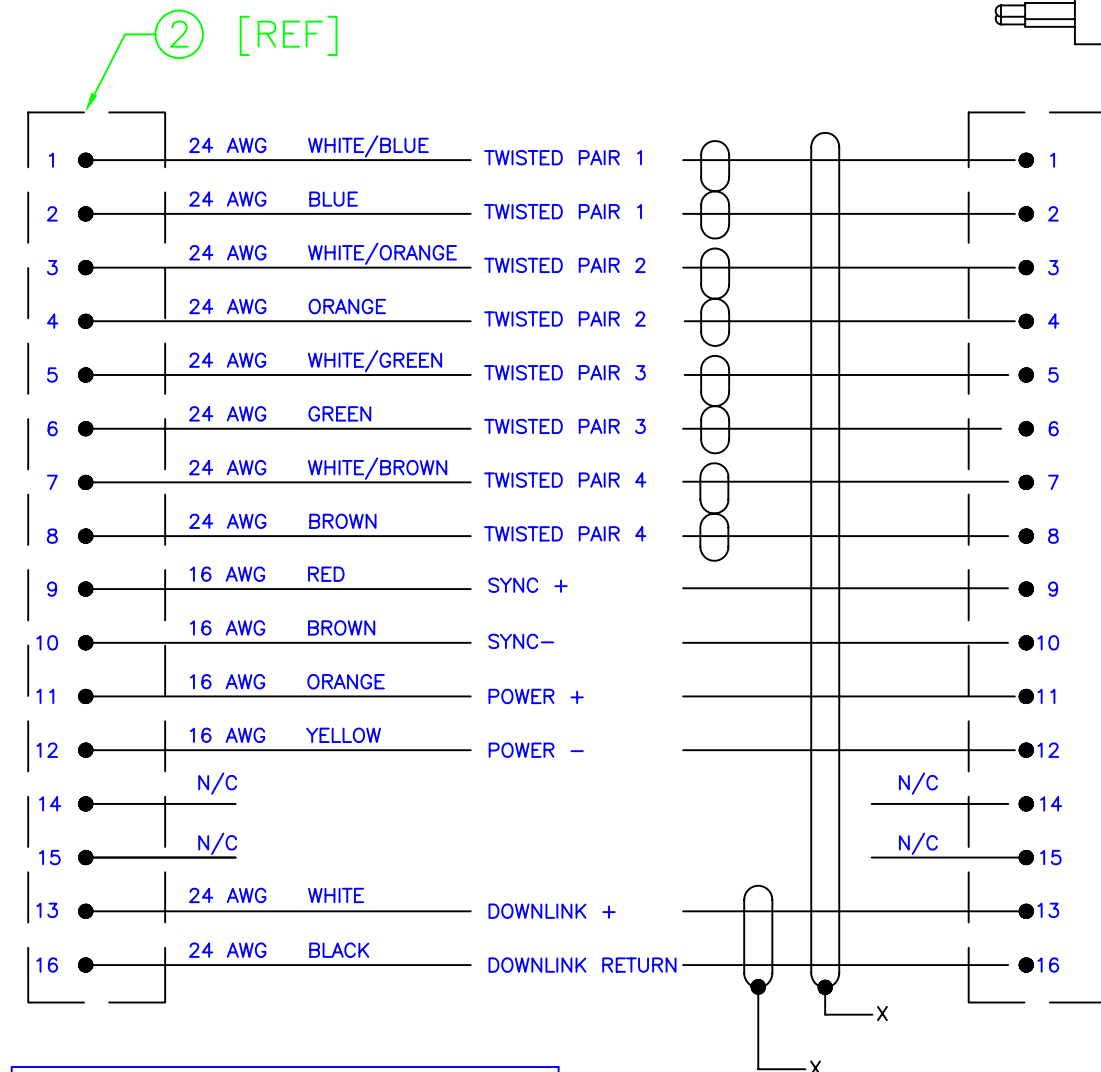
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NOTES: UNLESS OTHERWISE SPECIFIED

1. X IS BUILD LEVEL AND CABLE LENGTH IN METERS.
2. ITEMS WITH QTY IN PARENTHESIS DENOTE VENDOR SUPPLIED PARTS. 100% EQUIVALENT PARTS MAY BE USED, BUT ONLY AFTER RESON APPROVAL.
3. NO STRAIN RELIEF LOOPS ON WIRES.
4. CABLES NOT TO BE UNTWISTED MORE THAN 9.5MM AT EACH END.

5. LABEL: TEXT SIZE 0.156"  
RESON PN, REV A  
MIN BEND RADIUS  
3.3 INCHES
6. LABEL TO BE PERMANENTLY ATTACHED TO CABLE

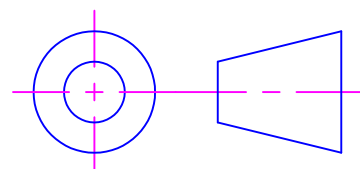
| REVISIONS |     |                               |          |          |
|-----------|-----|-------------------------------|----------|----------|
| ZONE      | LTR | DESCRIPTION                   | DATE     | APPROVED |
|           | A   | INITIAL RELEASE PER ECO 04033 | 04-02-05 | RQA      |



| CONFIGURATION TABLE |          |        |
|---------------------|----------|--------|
| DASH NO.            | RESON PN | LENGTH |
| -4.00               | 85001141 | 4.0    |
| -25                 | 85000980 | 25m    |

ACAD FILE: 11680a.DWG

THIRD ANGLE PROJECTION



|             |         |
|-------------|---------|
| NONE        | 7XXX    |
| NEXT ASSY   | USED ON |
| APPLICATION |         |

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES  
DO NOT SCALE DRAWING

TOLERANCES  
.XX ±0.03  
.XXX ±0.010  
X" ±0.5"

REMOVE ALL BURRS  
BREAK CORNERS: 0.005/0.010  
INTERNAL RADII: 0.005/0.001  
FINISH: 125

DESIGNED: R. ABBOTT

DATE: 03-03-06

DRAWN A ROSS

DATE: 03-03-06

CHECKED R. ABBOTT

DATE: 03-11-24

RELEASED R. ABBOTT

DATE: 04-02-05

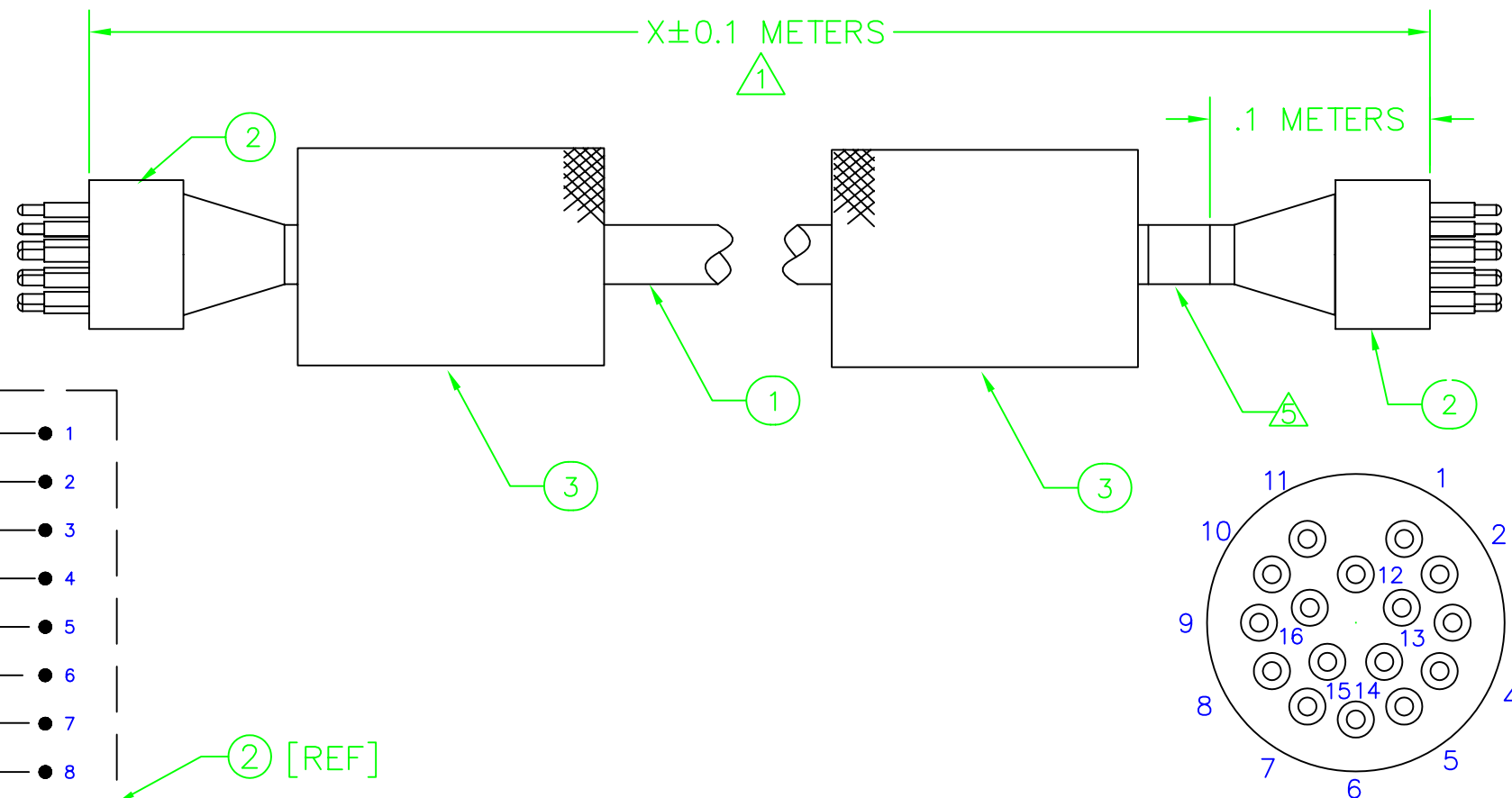
RESON, INC.  
GOLETA, CALIFORNIA 93117

TITLE:  
CABLE ASSY TP, WET  
MIL-16-MP, MIL-16-MP  
7K

DRAWING NO: 11680

REV: A

SIZE: C SCALE: NONE SHEET: 1 of 1



| (2) | 64500067    | LOCKING SLEEVE, FEMALE (IMPULSE: DLSB-F)      | 3    | 0     |
|-----|-------------|-----------------------------------------------|------|-------|
| (2) | 64500059    | CONNECTOR, MIL-16-MP                          | 2    | 0     |
| Xm  | 67700021    | CABLE, PER RESON DRAWING # 11676 (SEE NOTE 1) | 1    | 0     |
| QTY | PART NUMBER | DESCRIPTION                                   | ITEM | LEVEL |

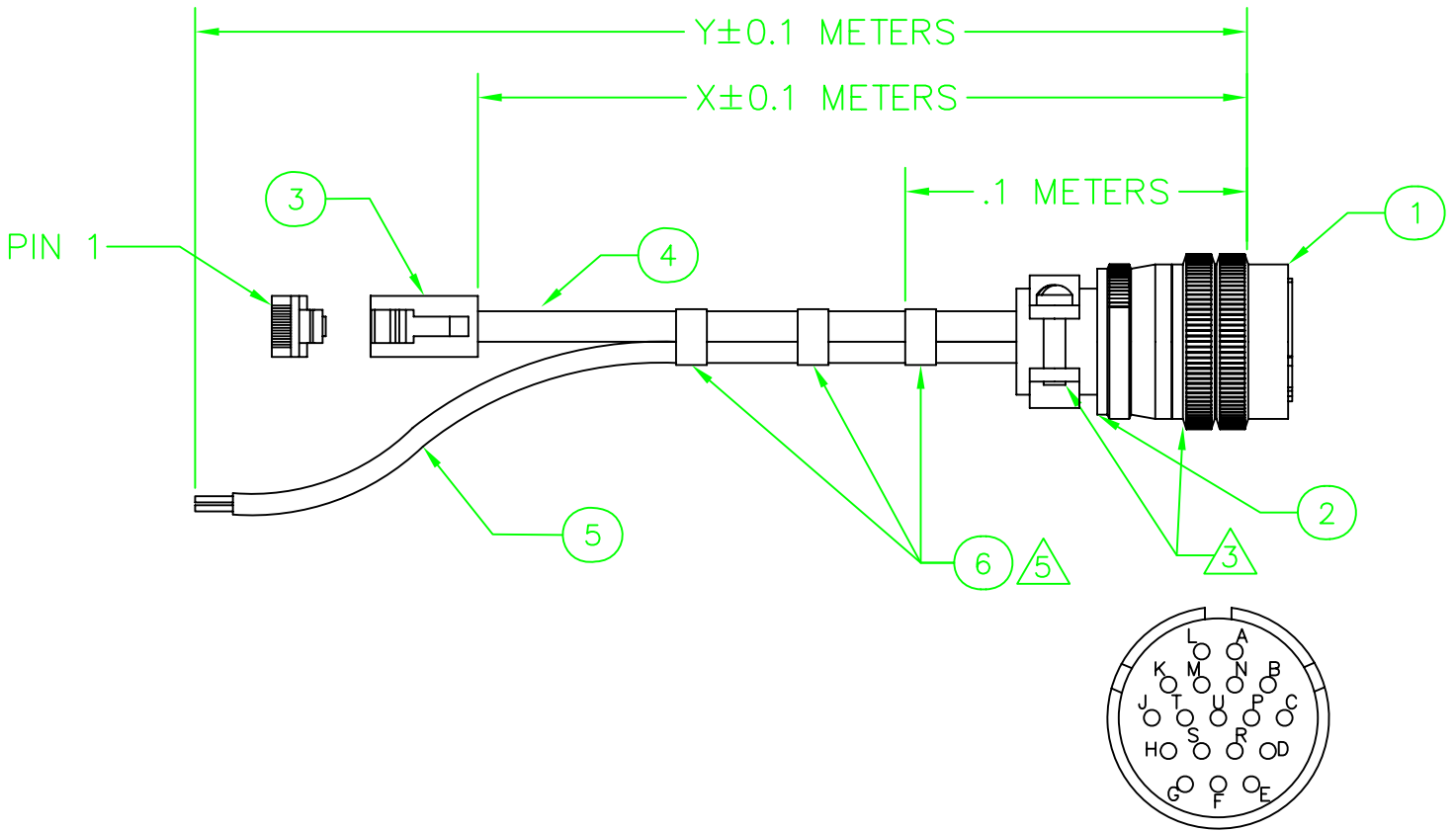
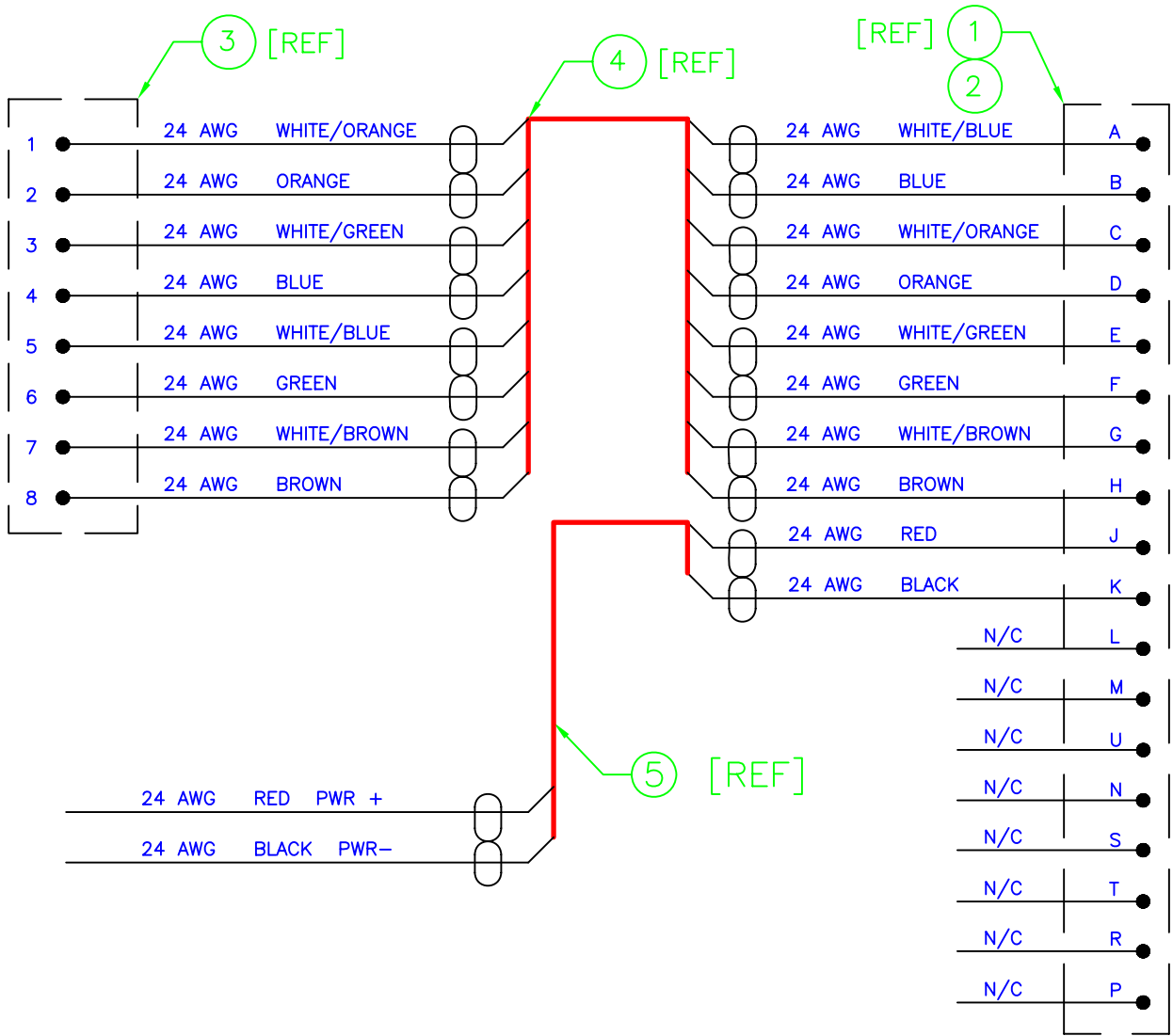
PARTS LIST

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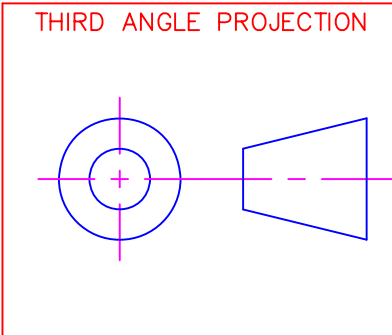
- NOTES: UNLESS OTHERWISE SPECIFIED
1. X IS BUILD LEVEL AND CABLE LENGTH IN METERS.
  2. CABLES NOT TO BE UNTWISTED MORE THAN 9.5MM AT EACH END.
  3. APPLY LOCTITE (ITEM 7) TO THE MS CONNECTOR THREADS, WHERE INDICATED, DURING ASSEMBLY.
  4. LABEL CABLE WITH RESON PART NUMBER AND REV.
  5. CUT ITEM 6 INTO 12.5mm LENGTH AND SHRINK OVER CABLES EVERY 125mm.

| CONFIGURATION TABLE |          |            |                |               |        |
|---------------------|----------|------------|----------------|---------------|--------|
| DASH NO.            | RESON PN | LENGTH(X)  | LENGTH(Y)      | Z (NOTE 5)    | Z/12.5 |
| -1                  | 85001361 | 1m/39.4"   | 1.25m/49.2"    | 87.5mm/3.5"   | 7      |
| -2                  | 85001420 | 2m/78.75"  | 2.25m/88.6"    | 187.5mm/7.4"  | 15     |
| -3                  | 85001421 | 3m/118.1"  | 3.25m/127.95"  | 287.5mm/11.3" | 23     |
| -5                  | 85001422 | 5m/196.85" | 5.25m/206.7"   | 487.5mm/19.2" | 39     |
| -10                 | 85001423 | 10m/393.7" | 10.25m/403.55" | 987.5mm/38.9" | 79     |

| REVISIONS |     |                        |          |          |
|-----------|-----|------------------------|----------|----------|
| ZONE      | LTR | DESCRIPTION            | DATE     | APPROVED |
|           | B   | RELEASED PER ECO 04491 | 04-12-03 | RQA      |
|           | C   | RELEASED PER ECO 05155 | 05-05-10 | RQA      |
|           | D   | RELEASED PER ECO 05427 | 05-12-12 | DFL      |
|           | E   | RELEASED PER ECO 05443 | 05-12-22 | DFL      |



|  |    |             |                                                  |      |       |
|--|----|-------------|--------------------------------------------------|------|-------|
|  | AR | 84000004    | ADHESIVE, THREAD LOCKING, BLUE [LOCTITE #242]    | 7    | 0     |
|  | Z  | 67800009    | TUBING, SHRINK, 1/2", CLEAR                      | 6    | 0     |
|  | Y  | 67700006    | CABLE, SHIELDED TW/PR, 24AWG, BLK/RED            | 5    | 0     |
|  | X  | 67700032    | CABLE, DATATUFF 5E, 24AWG, 4PR, UNSHLD           | 4    | 0     |
|  | 1  | 64000262    | CONN PLUG, RJ45, 24-26AWG STRANDED               | 3    | 0     |
|  | 1  | 64300059    | CABLE CLAMP, [AMPHENOL: 97-3057-1008]            | 2    | 0     |
|  | 1  | 64300057    | CONN, PLUG, 18-PIN, RND [AMPHENOL: PT06A-14-18P] | 1    | 0     |
|  | -X | PART NUMBER | DESCRIPTION                                      | ITEM | LEVEL |



| THIRD ANGLE PROJECTION |         | UNLESS OTHERWISE SPECIFIED  |                      |
|------------------------|---------|-----------------------------|----------------------|
|                        |         | DIMENSIONS ARE IN INCHES    | DO NOT SCALE DRAWING |
|                        |         | TOLERANCES                  |                      |
|                        |         | .XX ±0.03                   |                      |
|                        |         | .XXX ±0.010                 |                      |
|                        |         | X" ±0.5"                    |                      |
|                        |         | REMOVE ALL BURRS            |                      |
|                        |         | BREAK CORNERS: 0.005/0.010  |                      |
|                        |         | INTERNAL RADII: 0.005/0.001 |                      |
|                        |         | FINISH: 125                 |                      |
| NONE                   | 7XXX    |                             |                      |
| NEXT ASSY              | USED ON |                             |                      |
| APPLICATION            |         |                             |                      |

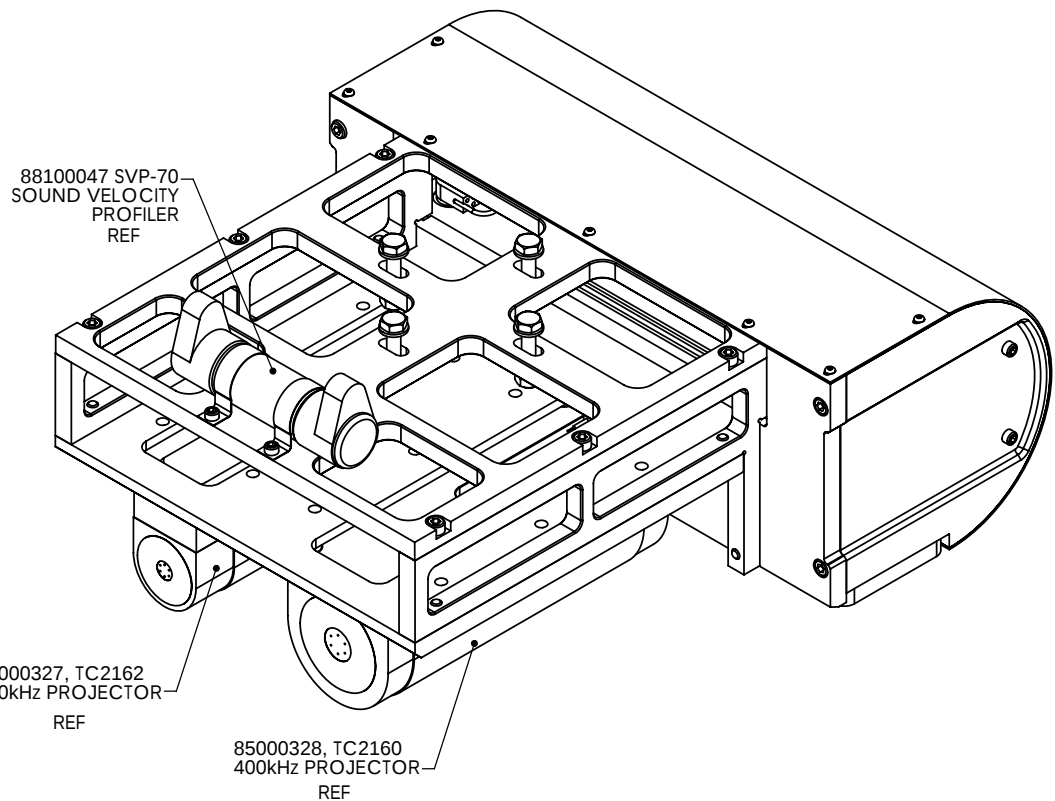
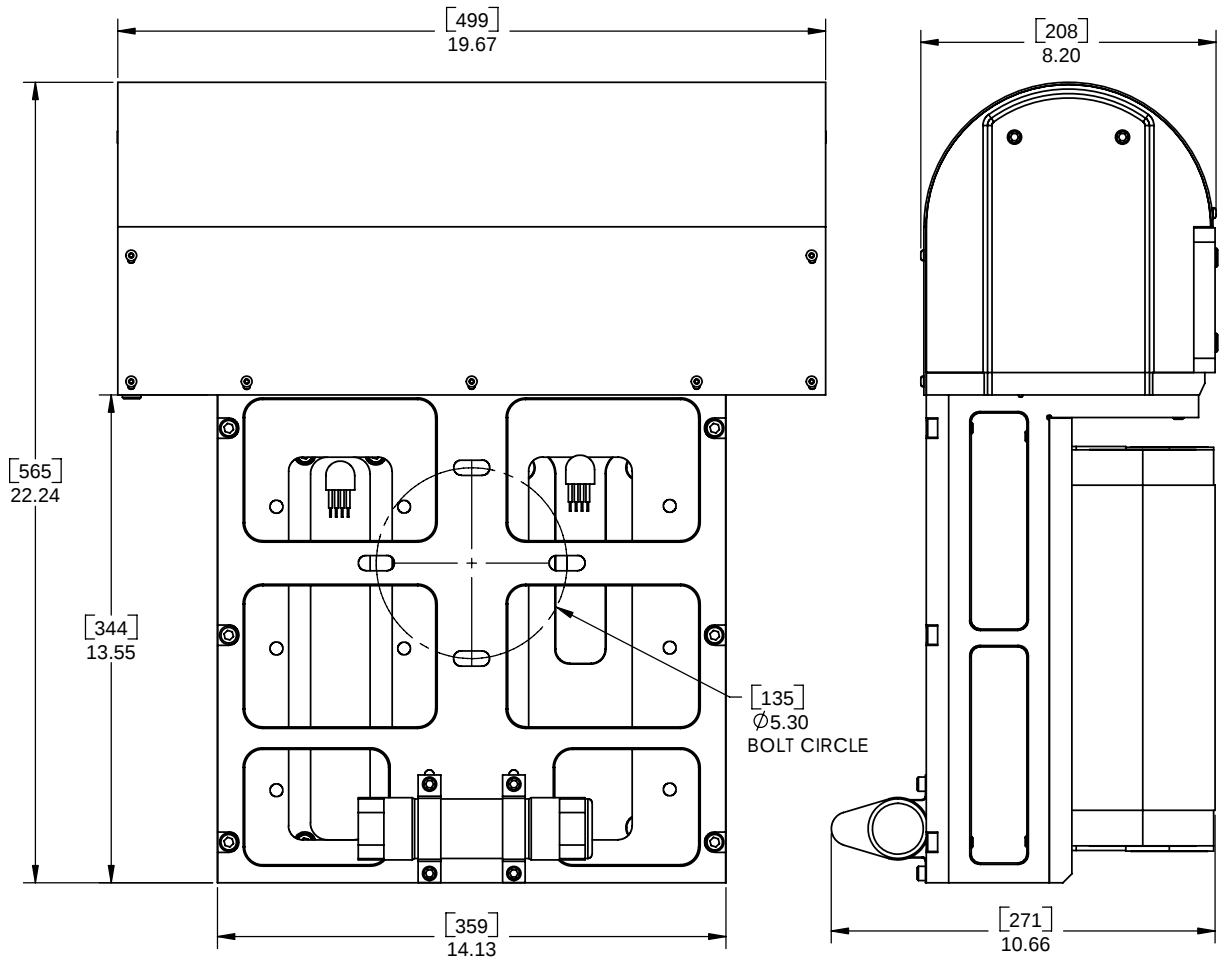
|                     |                                             |  |
|---------------------|---------------------------------------------|--|
| DESIGNED: R. ABBOTT | RESON, INC. GOLETA, CALIFORNIA 93117        |  |
| DATE: 04-09-29      | TITLE: CABLE ASSY TC3300 TO PT06A-14-18P 7K |  |
| DRAWN R. ABBOTT     | DRAWING NO: 12308                           |  |
| DATE: 04-09-29      | REV: E                                      |  |
| CHECKED R. ABBOTT   | SIZE: C                                     |  |
| DATE: 04-10-29      | SCALE: NONE                                 |  |
| RELEASED R. ABBOTT  | SHEET: 1 of 1                               |  |
| DATE: 04-10-29      |                                             |  |

ACAD FILE: 12308e.DWG

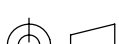
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- NOTES: UNLESS OTHERWISE SPECIFIED
1. BRACKET WEIGHT: 37kg/70 Lbs WITHOUT SONAR AND POLE EXTENSION
  2. REF: DOC 11430 POLE MOUNT ASSEMBLY HANDBOOK
  3. USE LOCITE ON ALL FASTENERS FOR FINAL ASSEMBLY
  4. USE OF ELECTRICAL ISOLATION MEASURES IS STRONGLY RECOMMENDED

| REVISIONS |     |                               |          |          |
|-----------|-----|-------------------------------|----------|----------|
| ZONE      | LTR | DESCRIPTION                   | DATE     | APPROVED |
|           | A   | INITIAL RELEASE PER ECO 05337 | 20-02-06 | AR       |



|                   |                      |                              |                                   |      |
|-------------------|----------------------|------------------------------|-----------------------------------|------|
| 4                 | 81160003             | 92290A418                    | SCREW, M8 X 1.25, 16mm SHCS A4 SS | 9    |
| 4                 | 81160009             | 92290A452                    | SCREW, SOCKET HEAD M8 X 55 A4 SS  | 8    |
| 4                 | 81160007             | 93395A404                    | SCREW, M8 X 20 FSHCS, A4 SS       | 7    |
| 4                 | 81150006             | 92290A312                    | SCREW, M6 X 1, 8mm SHCS, A4 SS    | 6    |
| 4                 | 81174001             | 92153A434                    | LOCKWASHER, SPLIT RING M10 A4 SS  | 5    |
| 8                 | 81173001             | 90965A200                    | M10 FLAT WASHER DIN 125 A4 SS     | 4    |
| 4                 | 81178001             | 94150A358                    | M10 HEX NUT DIN 934 A4 SS         | 3    |
| 4                 | 81172005             | 93635A437                    | M10 X 50 HEX HEAD CAP SCREW A4 SS | 2    |
| 1                 | 85001554             | 12699                        | MECH ASSY, POLE MNT FRAME         | 1    |
| QTY               | RESON PART<br>NUMBER | VENDOR<br>PART/DWG<br>NUMBER | DESCRIPTION                       | ITEM |
| BILL OF MATERIALS |                      |                              |                                   |      |

|                                                                                                                                        |  |  |                                                                                                                                           |          |           |                |                          |                                                                                                                                                            |               |        |
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|
| <div>THIRD ANGLE<br/>PROJECTION</div> <div></div> |  |  | UNLESS OTHERWISE SPECIFIED                                                                                                                |          | DESIGNED: | A ROSS         |                          | <div>RESON </div> <div>RESON, INC.<br/>GOLETA, CALIFORNIA 93117</div> |               |        |
|                                                                                                                                        |  |  | DIMENSIONS ARE IN INCHES<br>DO NOT SCALE DRAWING                                                                                          |          | DATE:     | 02-03-05       |                          |                                                                                                                                                            |               |        |
|                                                                                                                                        |  |  | TOLERANCES<br><br>.XX ±0.03<br>.XXX ±0.010<br>X° ±0.5°<br><br>REMOVE ALL BURRS<br>BREAK CORNERS 0.005/0.010<br>INTERNAL RADII 0.016/0.032 |          | DRAWN     | AROSS          |                          | TITLE:<br><br>SEABAT 7125 MOUNTING KIT<br><br>& FAIRING, 7K                                                                                                |               |        |
|                                                                                                                                        |  |  |                                                                                                                                           |          | DATE:     | 02-03-05       |                          |                                                                                                                                                            |               |        |
|                                                                                                                                        |  |  |                                                                                                                                           |          | CHECKED   | A ROSS         |                          |                                                                                                                                                            |               |        |
|                                                                                                                                        |  |  |                                                                                                                                           |          | DATE:     | 20-02-06       |                          |                                                                                                                                                            |               |        |
|                                                                                                                                        |  |  | RELEASED                                                                                                                                  | R LEAR   |           | SIZE:<br><br>D | DRAWING NO:<br><br>12489 |                                                                                                                                                            | REV:<br><br>A |        |
|                                                                                                                                        |  |  | DATE:                                                                                                                                     | 20-02-06 |           |                |                          |                                                                                                                                                            |               |        |
|                                                                                                                                        |  |  | APPLICATION                                                                                                                               |          |           |                | SCALE:                   | 3:8                                                                                                                                                        | SHEET:        | 1 of 2 |
|                                                                                                                                        |  |  | NEXT ASSY                                                                                                                                 | USED ON  |           |                |                          |                                                                                                                                                            |               |        |

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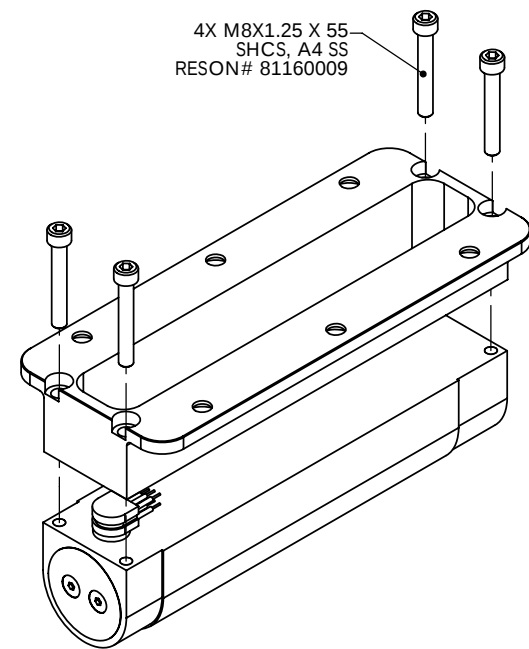
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D

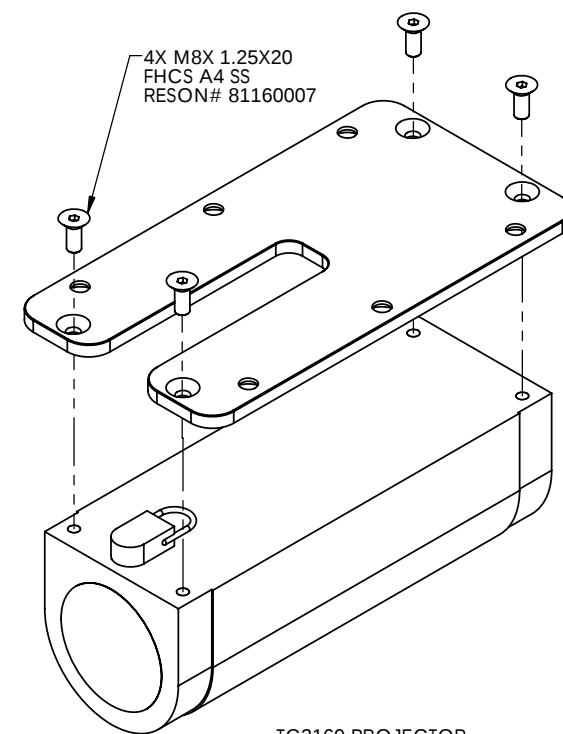
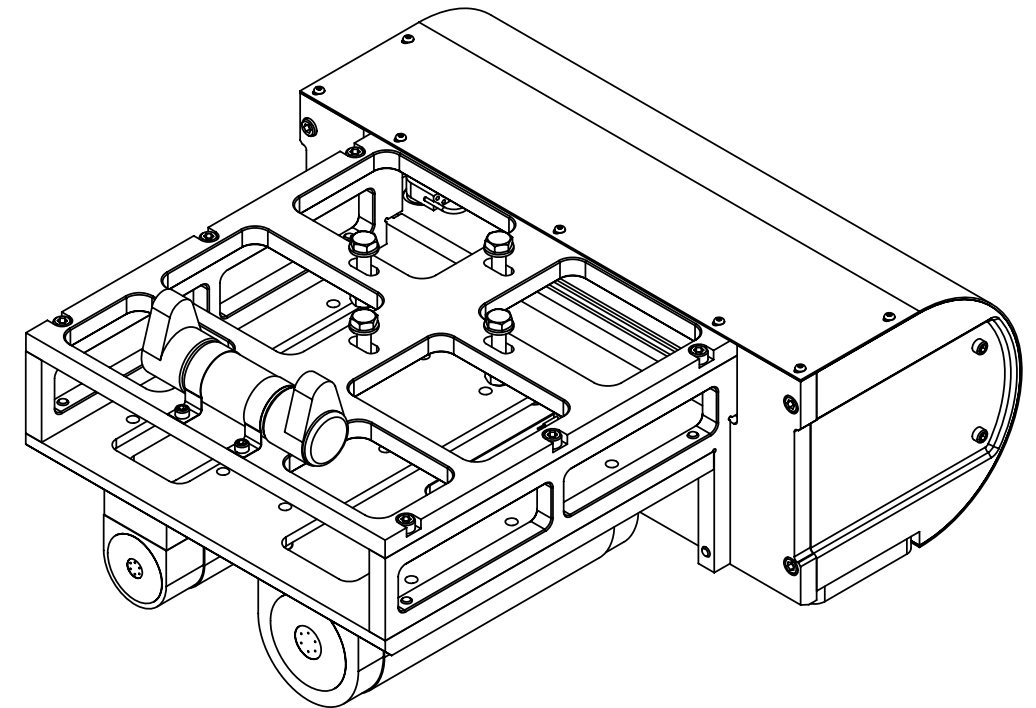
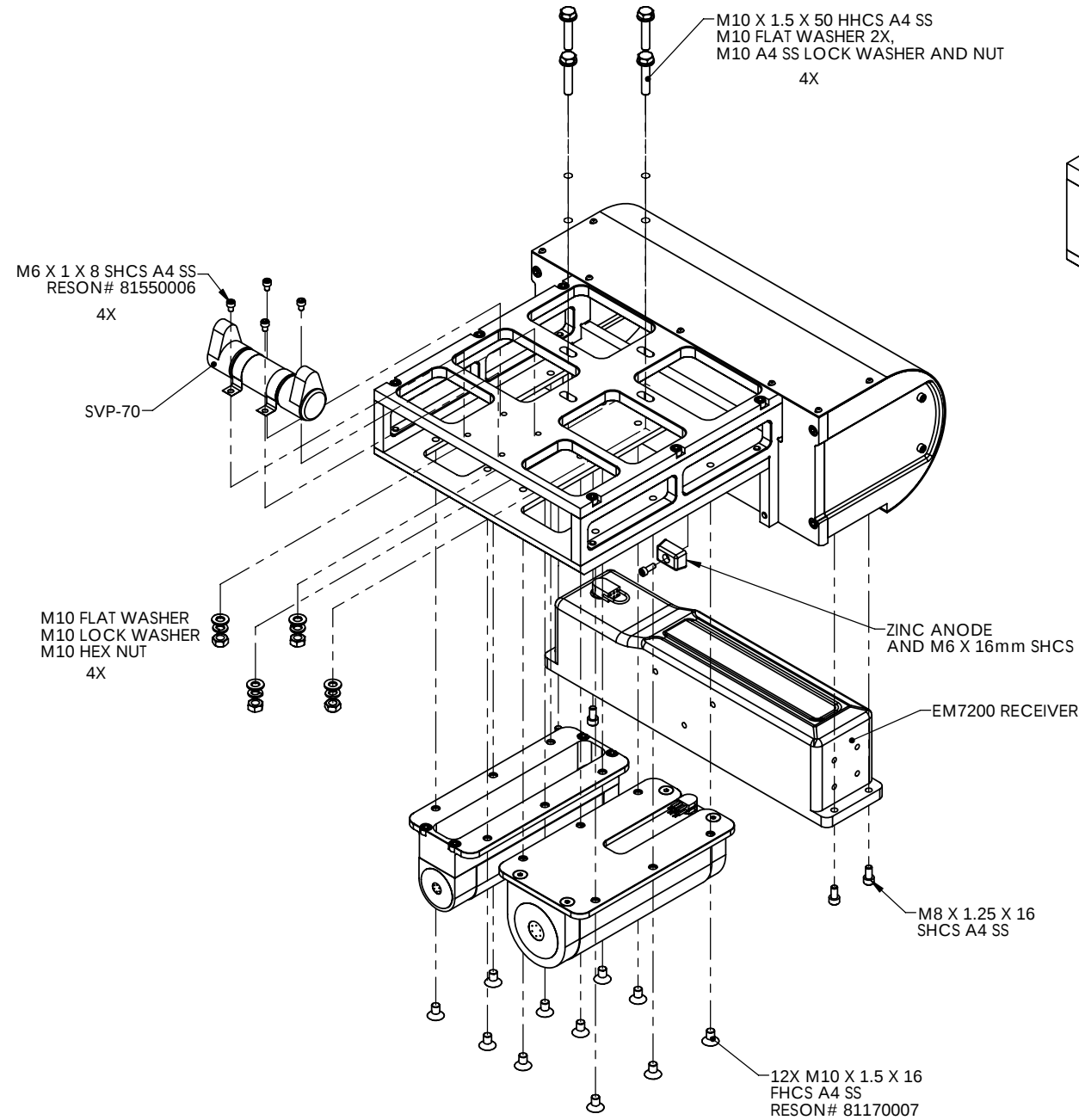
C

B

A



TC2162 PROJECTOR  
INSTALLED ON MOUNT PLATE



TC2160 PROJECTOR  
INSTALLED ON MOUNT PLATE

D

C

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|            |               |      |
|------------|---------------|------|
| SIZE:      | DRAWING NO:   | REV: |
| D          | 12489         | A    |
| SCALE: 1:2 | SHEET: 2 of 2 |      |

12489.DRW  
SolidWorks Drawing File