

## ISSUES

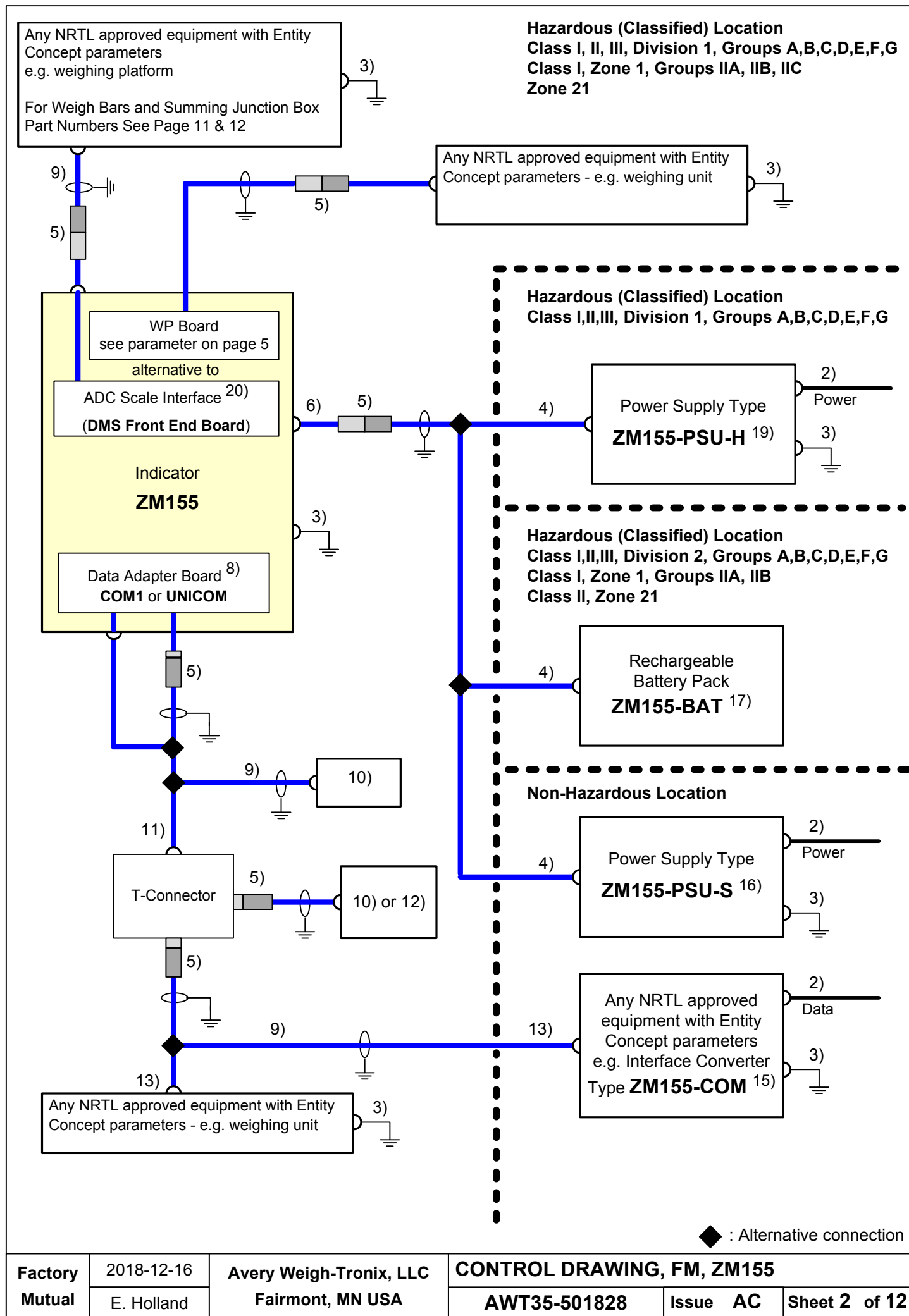
| ISSUE | DESCRIPTION                                                                              | ECO | DATE       | APPR |
|-------|------------------------------------------------------------------------------------------|-----|------------|------|
| AA    | Initial Production Release                                                               |     | 12/16/2018 | EJH  |
| AB    | Added Weigh Bar and JBox P/Ns to Page 11                                                 |     | 4/17/2019  | EJH  |
| AC    | Added additional Weigh Bar P/Ns to Page 11.<br>Increased ZM155-BAT temp range on Page 9. |     | 6/24/2019  | EJH  |
|       |                                                                                          |     |            |      |
|       |                                                                                          |     |            |      |
|       |                                                                                          |     |            |      |

### NOTICE!

**CHANGES TO THIS DOCUMENT REQUIRE  
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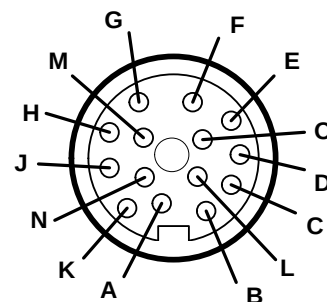
|                           |            |                                                     |                                   |                 |                      |
|---------------------------|------------|-----------------------------------------------------|-----------------------------------|-----------------|----------------------|
| <b>Factory<br/>Mutual</b> | 2018-12-16 | <b>Avery Weigh-Tronix, LLC<br/>Fairmont, MN USA</b> | <b>CONTROL DRAWING, FM, ZM155</b> |                 |                      |
|                           | E. Holland |                                                     | <b>AWT35-501828</b>               | <b>Issue AC</b> | <b>Sheet 1 of 12</b> |



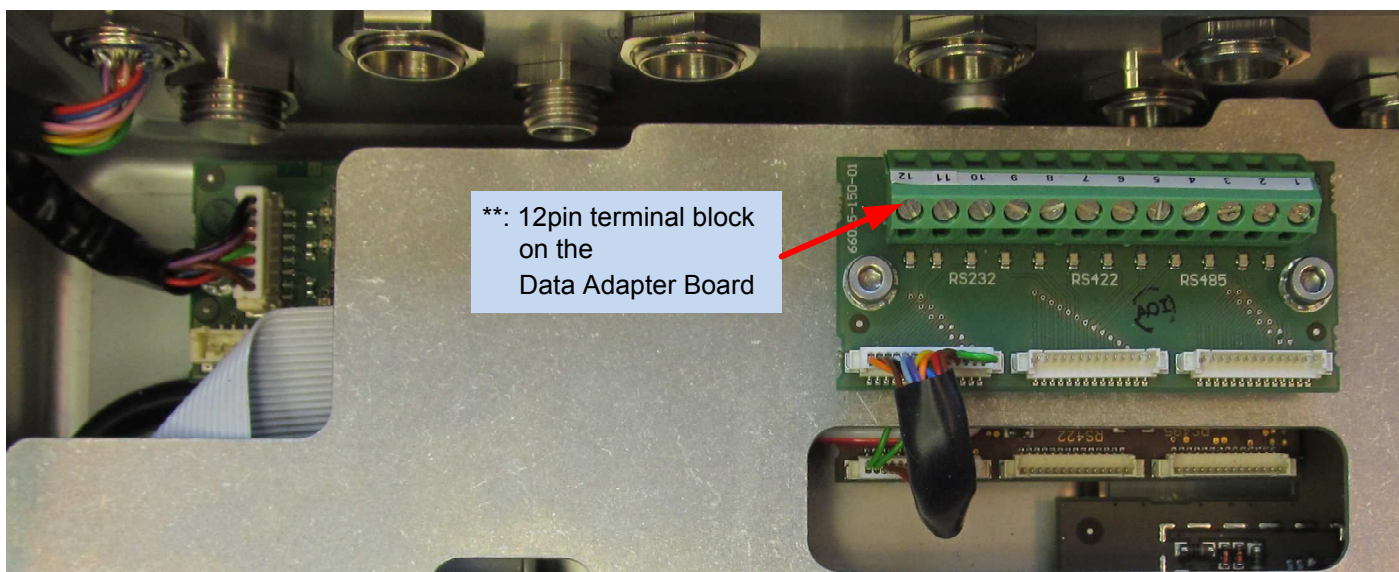
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|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
| Factory<br>Mutual | 2018-12-16 | Avery Weigh-Tronix, LLC<br>Fairmont, MN USA | CONTROL DRAWING, FM, ZM155 |          |               |
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## Terminal Assignments on the ZM155 Data Interfaces (COM1)

| RS232 +<br>Digital I/Os | RS422 | RS485 +<br>Digital I/Os | Pin <sup>*)</sup> | Pin <sup>**)</sup> |
|-------------------------|-------|-------------------------|-------------------|--------------------|
| CTS                     | GND   | GND                     | A                 | 1                  |
| RxD                     | GND   | TxD-RxD_P               | J                 | 2                  |
| TxD                     | TxD_N | TxD_RxD_N               | K                 | 3                  |
| DTR                     | TxD_P | ---                     | N                 | 4                  |
| GND                     | DTR_P | GND                     | C                 | 5                  |
| GND                     | RxD_N | GND                     | M                 | 6                  |
| GND                     | DTR_N | GND                     | B                 | 7                  |
| UNI_IN                  | ---   | UNI_IN                  | O                 | 8                  |
| SET                     | ---   | SET                     | D                 | 9                  |
| PAR                     | CTS_N | PAR                     | E                 | 10                 |
| MIN                     | CTS_P | MIN                     | F                 | 11                 |
| MAJ                     | RxD_P | MAJ                     | G                 | 12                 |



\*: 14pin female connector on an adapter cable (topview)



### Input parameters (combined circuits) for COM1:

|              | Ui               | li        | Pi    | Ci              | Li   |
|--------------|------------------|-----------|-------|-----------------|------|
| RS232        | 12.6 V* 25.2 V** | 328 mA*** | any   | 2.2 nF*/0.5nF** | 0 mH |
| RS422        | 8.6 V            | 210 mA    | 0.5 W | 0.5 $\mu$ F     | 0 mH |
| RS485        | see below        | see below | any   | 260 nF          | 0 mH |
| Digital I/Os | 8.6 V            | any       | any   | 0 $\mu$ F       | 0 mH |

RS485 ( $R_{min} = U_i / I_i$  is the minimum output resistance of the combined circuits of the equipment connected to the ZM155):

|      |               |               |              |
|------|---------------|---------------|--------------|
| Ui   | $\pm 12.6$ V  | 12.0 V        | 7.2 V        |
| Ii   | 135 mA***     | 164 mA***     | 3.3 A***     |
| Rmin | 95,4 $\Omega$ | 73,2 $\Omega$ | 2.2 $\Omega$ |

### Output parameters (combined circuits) for COM1:

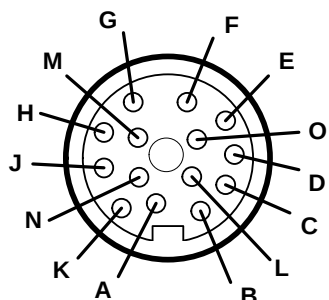
|              | Uo                  | Io        | Po     | Co                     | Lo          | Lo/Ro                 |
|--------------|---------------------|-----------|--------|------------------------|-------------|-----------------------|
| RS232        | 10.0 V*<br>20.0 V** | 101 mA*** | 253 mW | 3 $\mu$ F*<br>217 nF** | 3 mH        | 140 $\mu$ H/ $\Omega$ |
| RS422        | 5.2 V               | 290 mA    | 496 mW | 60 $\mu$ F             | 300 $\mu$ H | 50 $\mu$ H/ $\Omega$  |
| RS485        | 5.2 V               | 210 mA*** | 263 mW | 60 $\mu$ F             | 600 $\mu$ H | 125 $\mu$ H/ $\Omega$ |
| Digital I/Os | 6.0 V               | 45 mA***  | 67 mW  | 40 $\mu$ F             | 20 mH       | 530 $\mu$ H/ $\Omega$ |

\*: versus ground; \*\*: between the lines; \*\*\*: resistively limited

|                   |            |                                             |                            |          |               |
|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
| Factory<br>Mutual | 2018-12-16 | Avery Weigh-Tronix, LLC<br>Fairmont, MN USA | CONTROL DRAWING, FM, ZM155 |          |               |
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## Terminal Assignments on the ZM155 Data Interfaces (UNICOM):

| RS232 | RS422 | RS485     | Pin <sup>*)</sup> |
|-------|-------|-----------|-------------------|
| CTS   | GND   | GND       | A                 |
| RxD   | GND   | TxD-RxD_P | J                 |
| TxD   | TxD_N | TxD_RxD_N | K                 |
| DTR   | TxD_P | ---       | N                 |
| GND   | DTR_P | GND       | C                 |
| GND   | RxD_N | GND       | M                 |
| GND   | DTR_N | GND       | B                 |
| ---   | CTS_N | ---       | E                 |
| ---   | CTS_P | ---       | F                 |
| ---   | RxD_P | ---       | G                 |



\*: 14pin female connector on an adapter cable (topview)

## Input parameters (combined circuits) for UNICOM:

|       | U <sub>i</sub>   | I <sub>i</sub> | P <sub>i</sub> | C <sub>i</sub> | L <sub>i</sub> |
|-------|------------------|----------------|----------------|----------------|----------------|
| RS232 | 12.6 V* 25.2 V** | 328 mA***      | any            | 0 nF           | 0 mH           |
| RS422 | 8.6 V            | 210 mA         | 0.5 W          | 11.22 µF       | 0 mH           |
| RS485 | see below        | see below      | any            | 0 nF           | 0 mH           |

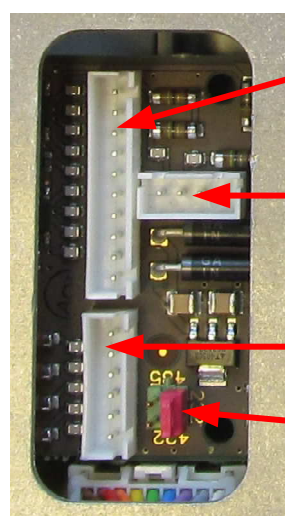
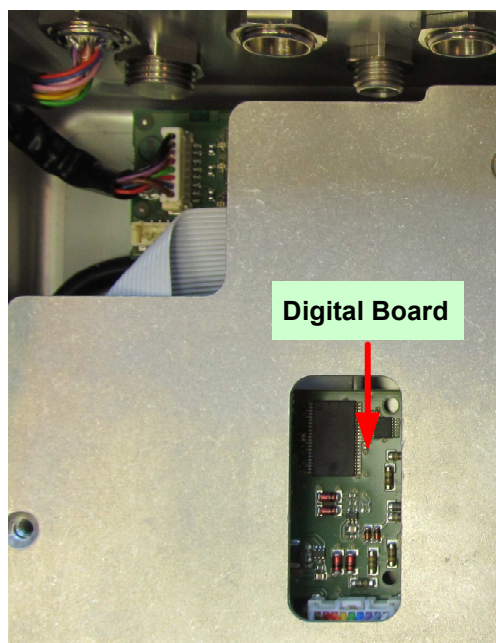
RS485 ( $R_{min} = U_i / I_i$  is the minimum output resistance of the combined circuits of the equipment connected to the ZM155):

|                  |           |           |       |
|------------------|-----------|-----------|-------|
| U <sub>i</sub>   | ±12.6 V   | 12.0 V    | 7.2 V |
| I <sub>i</sub>   | 135 mA*** | 164 mA*** | any   |
| R <sub>min</sub> | 95.4 Ω    | 73.2 Ω    | 0 Ω   |

## Output parameters (combined circuits) for UNICOM:

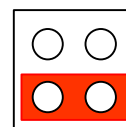
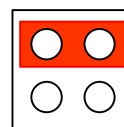
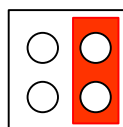
|       | U <sub>o</sub>      | I <sub>o</sub> | P <sub>o</sub> | C <sub>o</sub>    | L <sub>o</sub> | L <sub>o</sub> /R <sub>o</sub> |
|-------|---------------------|----------------|----------------|-------------------|----------------|--------------------------------|
| RS232 | 10.0 V*<br>20.0 V** | 101 mA***      | 253 mW         | 3 µF*<br>217 nF** | 3 mH           | 140 µH/Ω                       |
| RS422 | 5.2 V               | 165 mA         | 292 mW         | 60 µF             | 1 mH           | 75 µH/Ω                        |
| RS485 | 5.2 V               | 210 mA***      | 263 mW         | 60 µF             | 500 µH         | 125 µH/Ω                       |

\*: versus ground; \*\*: between the lines; \*\*\*: resistively limited



**Jumper Position:**

RS232 RS485 RS422



UNICOM Board  
on Digital Board

|                   |            |                                             |                            |          |               |
|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
| Factory<br>Mutual | 2018-12-16 | Avery Weigh-Tronix, LLC<br>Fairmont, MN USA | CONTROL DRAWING, FM, ZM155 |          |               |
|                   | E. Holland |                                             | AWT35-501828               | Issue AC | Sheet 4 of 12 |

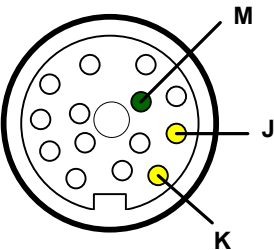
Parameters of the Ex ia circuits (combined circuits) on the WP Board:

RS485

|       |           |           |          |
|-------|-----------|-----------|----------|
| Uo    | 5.4 V     | Io        | 74 mA*** |
| Po    | 183 mW    |           |          |
| Co    | 50 µF     | Lo        | 600 µH   |
| Lo/Ro | 135 µH/Ω  |           |          |
| Ui    | ±12.6 V   | 12.0 V    | 6.0 V    |
| Ii    | 135 mA*** | 164 mA*** | 3.3 A*** |
| Pi    | any       |           |          |
| Ci    | 260 nF    | Li        | 0 mH     |

Rmin of the external intrinsically safe circuit is defined by Ui / Ii and is

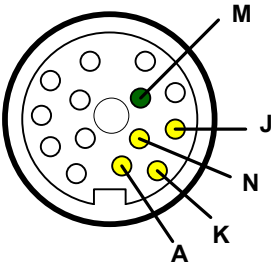
|      |         |        |       |
|------|---------|--------|-------|
| Ui   | ±12.6 V | 12.0 V | 6.0 V |
| Rmin | 95.4 Ω  | 73.2 Ω | 2.2 Ω |



| Signal     | Connector |
|------------|-----------|
| RxD-TxD-P  | J         |
| RxD-TxD-N  | K         |
| Signal GND | M         |

RS232

|       |                    |    |                 |
|-------|--------------------|----|-----------------|
| Uo    | 10.8 V* / 21.6V**  | Io | 110 mA***/55 mA |
| Po    | 295 mW             |    |                 |
| Co    | 2.14 µF* / 174nF** | Lo | 2 mH            |
| Lo/Ro | 120 µH/Ω           |    |                 |
| Ui    | 12.6V* / 25.2V**   | Ii | 328 mA***       |
| Pi    | any                |    |                 |
| Ci    | 3 nF* / 0.5nF**    | Li | 0 mH            |



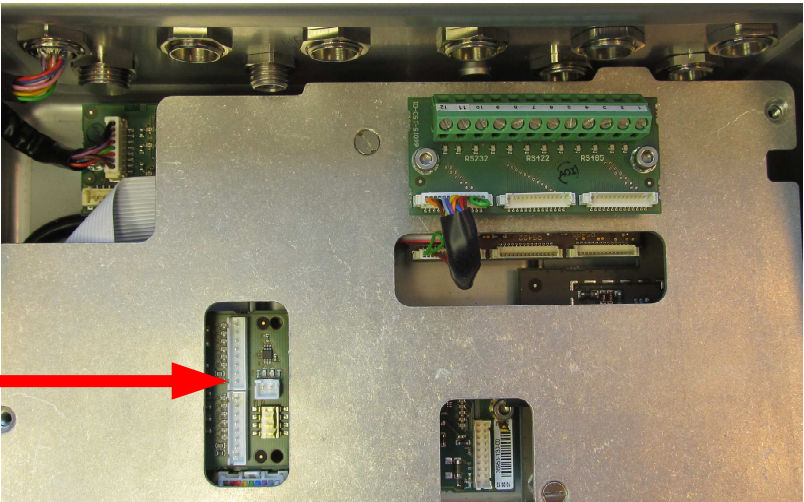
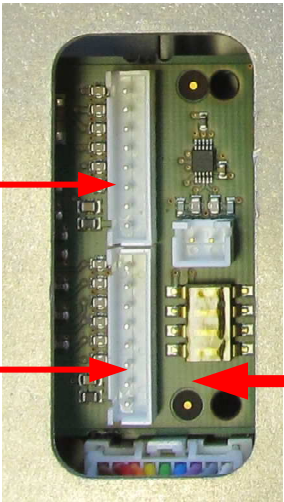
| Signal     | Connector |
|------------|-----------|
| CTS        | N         |
| DTR        | A         |
| RxD        | K         |
| TxD        | J         |
| Signal GND | M         |

\*: versus ground; \*\*: between the lines; \*\*\*: resistively limited

UNICOM

Connector for cable  
ProfiBus,  
DeviceNet, etc.

Connector for cable  
4...20mA



Input parameters (combined circuits) for UNICOM:

|       |        |        |      |       |
|-------|--------|--------|------|-------|
| Ui    | Ii     | Pi     | Ci   | Li    |
| 6.8 V | 200 mA | 600 mW | 3 µF | 20 µH |

Output parameters (combined circuits) for UNICOM:

|       |       |       |       |      |
|-------|-------|-------|-------|------|
| Uo    | Io    | Po    | Co    | Lo   |
| 6.0 V | 23 mA | 34 mW | 10 µF | 3 mH |

|                   |            |                                             |                            |          |               |
|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
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## Notes

1) In the **USA**: The installation must be in accordance with the National Electrical Code<sup>®</sup>, NFPA 70, Article 504 or 505 and ANSI / ISA-RP 12.6.

In **Canada**: The installation must be in accordance with the Canadian Electrical Code<sup>®</sup>, Part 1, Section 18.

2) The apparatus must not be connected to any device that uses or generates in excess of 250Vrms or DC.  
 $U_m = 250V$ .

3) In the **USA**: The Apparatus must be connected to a suitable ground electrode per National Electrical Code<sup>®</sup>, NFPA 70, Article 504 or 505. The resistance of the ground pad must be less than 1 ohm.

In **Canada**: The Apparatus must be connected to a suitable ground electrode per Canadian Electrical Code<sup>®</sup>, Part 1. The resistance of the ground pad must be less than 1 ohm.

4) Connection by non interchangeable cable; max length: 50m (164 ft).

5) Connection by means of polarized connector outside of the indicator.

6) Connection by non interchangeable cable; max length: 0.5m (1.6 ft).

8) The circuits of the data output circuits shall be assumed to be connected to earth.

9) The cable needs not be protected against damage.

10) Equipment with metallic housing (IP4X in minimum) and passive wiring, only. For use in Class II,III, Division 1 and in Zone 21 the housing must be IP6X.

11) The cable to the T-Connector must be protected against damage.

12) Any NRTL approved equipment with Entity Concept parameters (see note 13)

13) The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of  $V_{oc}$ ,  $I_{sc}$  and  $P_{max}$  resp.  $U_o$ ,  $I_o$ ,  $P_o$  of the associated apparatus are less than or equal to  $V_{max}$ ,  $I_{max}$  and  $P_{max}$  resp.  $U_i$ ,  $I_i$ ,  $P_i$  of the intrinsically safe apparatus and the approved values of  $C_a$  and  $L_a$  resp.  $C_o$  and  $L_o$  of the associated apparatus are greater than  $C_i$  and  $L_i$  of the intrinsically safe apparatus plus all cable parameters.

For the input and output parameters of the data interface of the ZM155 see page 3.

15) The Interface Converter ZM155-COM is approved/certified by FM for use in the USA and in Canada. See page 10.

16) The Power Supply Model ZM155-PSU-S is approved/certified by FM for use in the USA and in Canada. See page 7.

17) The rechargeable battery pack ZM155-BAT is approved/certified by FM for use in the USA and in Canada. See page 9.

19) The Power Supply Model ZM155-PSU-H is approved by FM for use in the USA. See page 8.

20) The output parameters of the Ex ia circuit to the load cells are:

$U_o = 11.8 V$ ,  $I_o = 147 mA$ ,  $P_o = 1.49 W$ ,  $C_o = 770 nF$ ,  $L_o = 300 \mu H$

22) Ambient temperature range:  $-10^{\circ}C$  ....  $+40^{\circ}C$  ( $14^{\circ}F$  ....  $+104^{\circ}F$ ) The temperature class for gases of the ZM155 is T4. The maximum surface temperature for dusts of the ZM155 is  $80^{\circ}C$  ( $176^{\circ}F$ ).

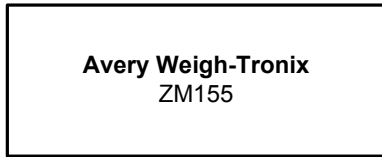
23) **WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

**AVERTISSEMENT:** LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE.

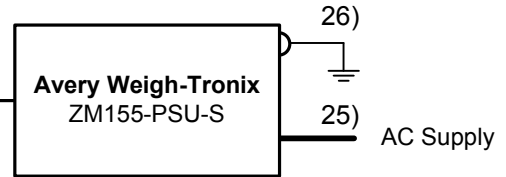
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|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
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## For Installation in the USA:

**Hazardous (Classified) Location**  
 Class I, II, III, Division 1, Groups  
 A,B,C,D,E,F,G  
 Class I, Zone 1, Groups IIA, IIB, IIC  
 Zone 21

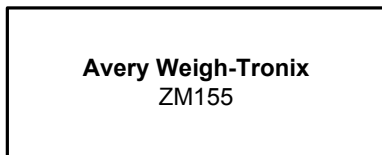


**Non-Hazardous Location**  
 AIS for Class I, II, III, Division 1, Groups A,B,C,D,E,F,G

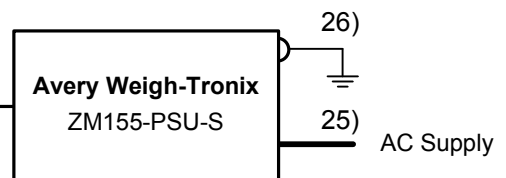


## For Installation in Canada:

**Hazardous (Classified) Location**  
 Class I, II, III, Division 1, Groups  
 A,B,C,D,E,F,G  
 Class I, Zone 1, Groups IIA, IIB, IIC  
 Zone 21



**Non-Hazardous Location**  
 [Ex ia] ASSOCIATED EQUIPMENT CL I, II, III, DIV 1,  
 GP A,B,C,D,E,F,G



### NOTES

24) USA: The installation must be in accordance with the National Electrical Code®, NFPA 70, Article 504 and ANSI / ISA-RP 12.6.

Canada: The installation must be in accordance with the Canadian *Electrical Code* Section 18.

25) The Apparatus must not be connected to any device that uses or generates in excess of 250Vrms or DC.

26) USA: The Apparatus must be connected to a suitable ground electrode per National Electrical Code®, NFPA 70, Article 504. The resistance of the ground pad must be less than 1 ohm.

Canada: The Apparatus must be connected to a suitable ground electrode per

Canadian Electrical Code®, Part 1. The resistance of the ground pad must be less than 1 ohm.

27) Connection by non interchangeable cable.

28) **WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

**AVERTISSEMENT:** LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE.

|                   |            |                                             |                            |          |               |
|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
| Factory<br>Mutual | 2018-12-16 | Avery Weigh-Tronix, LLC<br>Fairmont, MN USA | CONTROL DRAWING, FM, ZM155 |          |               |
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## For Installation in the USA:

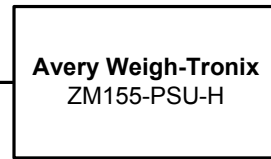
**Hazardous (Classified) Location**  
**Class I, II, III, Division 1, Groups**  
**A,B,C,D,E,F,G**  
**Class I, Zone 1, Groups IIA, IIB, IIC**  
**Zone 21**



32)



**Hazardous (Classified) Location**  
**XP-AIS Class I, II, III, DIV 1, Groups A,B,C,D,E,F,G T4**  
**Ta = 40°C**



31)



30)

AC Supply

### NOTES

29) USA: The installation must be in accordance with the National Electrical Code<sup>®</sup>, NFPA 70, Article 504 and ANSI / ISA-RP 12.6.

30) The Apparatus must not be connected to any device that uses or generates in excess of 250Vrms or DC.

31) USA: The Apparatus must be connected to a suitable ground electrode per National Electrical Code<sup>®</sup>, NFPA 70, Article 504. The resistance of the ground pad must be less than 1 ohm.

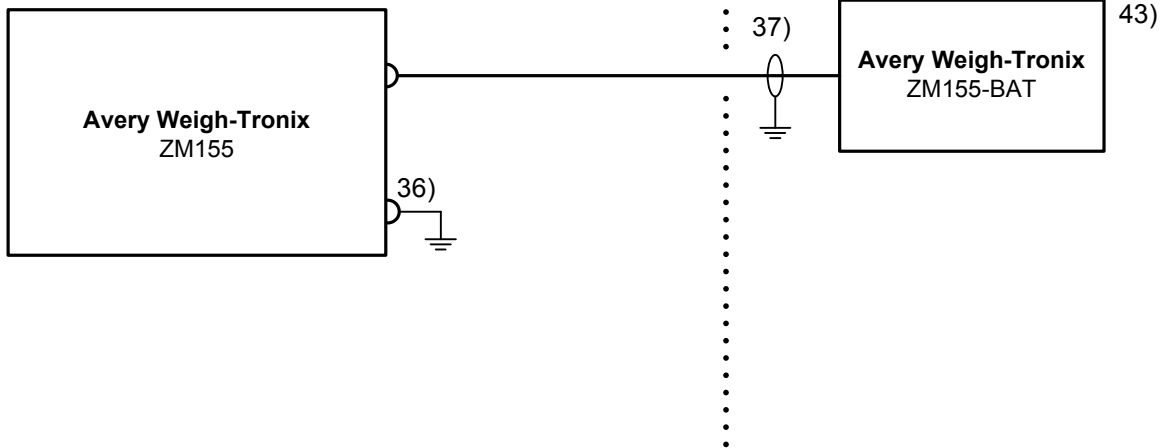
32) Connection by non interchangeable cable.

33) **WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

|                   |            |                                             |                            |          |               |
|-------------------|------------|---------------------------------------------|----------------------------|----------|---------------|
| Factory<br>Mutual | 2018-12-16 | Avery Weigh-Tronix, LLC<br>Fairmont, MN USA | CONTROL DRAWING, FM, ZM155 |          |               |
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**Hazardous (Classified) Location**  
**Class I, II, III, Division 1, Groups**  
**A,B,C,D,E,F,G**  
**Class I, Zone 1, Groups IIA, IIB, IIC**  
**Zone 21**

**Hazardous (Classified) Location**  
**Class I, II, III, Division 2,**  
**Groups A,B,C,D,F,G T4**  
**Class I, Zone 1 Group IIC <sup>41)</sup>**  
**Class II, Zone 20 <sup>42)</sup>**

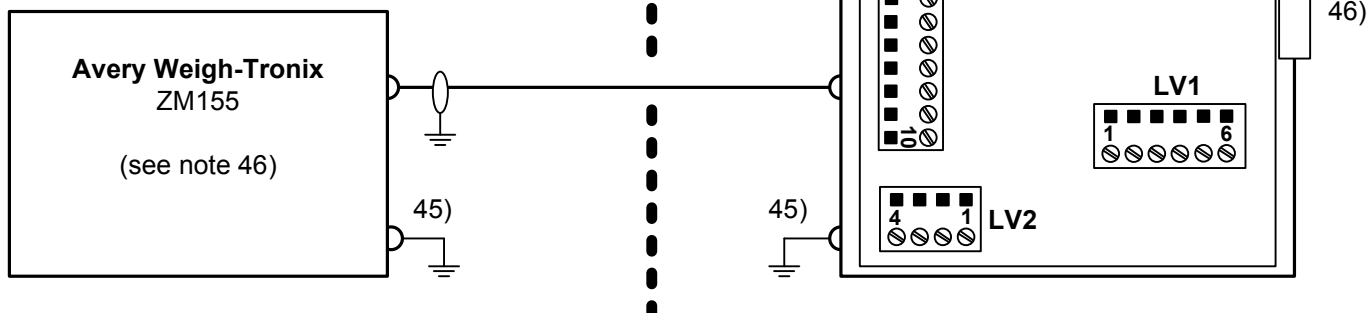


- 34) In the USA: The installation must be in accordance with the National Electrical Code ®, NFPA 70, Article 504 or 505 and ANSI / ISA-RP 12.6. In Canada: The installation must be in accordance with the Canadian Electrical Code ®, Part1, Section 18.
- 35) The ZM155-BAT is not for portable use.
- 36) In the USA: The Apparatus must be connected to a suitable ground electrode per National Electrical Code ®, NFPA 70, Article 504 or 505. The resistance of the ground pad must be less than 1 ohm. In Canada: The Apparatus must be connected to a suitable ground electrode per Canadian Electrical Code ®, Part 1. The resistance of the ground pad must be less than 1 ohm.
- 37) Connection by non interchangeable cable.
- 38) **Ambient temperature** range: -20°C .... +40°C (-4°F .... + 104°F)
- 39) **WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.**
- 40) Maximum cable length: 20m (65 ft).
- 41) IIC includes IIB and IIA and therewith all gases (equivalent to Class I, Group A,B,C,D)
- 42) All dusts are included (equivalent to Class II, Group F,G). Maximum surface temperature: +80°C (+176°F) at an ambient temperature of +40°C (+104°F). The dust layer may not exceed a thickness of 5mm.
- 43) The batteries shall only be charged outside the potentially explosive area.

|                       |            |                                                           |                                   |                 |                      |
|-----------------------|------------|-----------------------------------------------------------|-----------------------------------|-----------------|----------------------|
| <b>Factory Mutual</b> | 2018-12-16 | <b>Avery Weigh-Tronix, LLC</b><br><b>Fairmont, MN USA</b> | <b>CONTROL DRAWING, FM, ZM155</b> |                 |                      |
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**Hazardous (Classified) Location**  
**Class I, II, III, Division 1, Groups**  
**A,B,C,D,E,F,G**  
**Class I, Zone 1, Groups IIA, IIB, IIC**  
**Zone 21**

**Non-Hazardous Location**



**Output parameters** for combined circuits:

| Circuit    | Connector | Uo               | Io       | Po     | Co                         | Lo          |
|------------|-----------|------------------|----------|--------|----------------------------|-------------|
| RS232 IIB  | LV2       | 12,4V<br>24,8V * | 260 mA   | 0,8 W  | 7,9 $\mu$ F<br>850 nF*     | 2 mH        |
| RS232 IIC  | LV2       | 12,4V<br>24,8V * | 260 mA   | 0,8 W  | 1,24 $\mu$ F<br>112 nF*    | 400 $\mu$ H |
| RS422, IIB | LV3       | 6,0V (6,8V*)     | 172 mA # | 500 mW | 972 $\mu$ F (380 $\mu$ F*) | 5 mH        |
| RS422, IIC | LV3       | 6,0V (6,8V*)     | 172 mA # | 500 mW | 12 $\mu$ F (17,9 $\mu$ F*) | 700 $\mu$ H |

**Input parameters** for combined circuits:

| Circuit | Connector | Ui               | Ii   | Pi    | Ci         | Li        |
|---------|-----------|------------------|------|-------|------------|-----------|
| RS232   | LV2       | 12,6 V<br>25,2V* | any  | any   | 0          | 0         |
| RS422   | LV3       | 12,6 V           | 0,2A | 2,3 W | 28 $\mu$ F | 2 $\mu$ H |

**Note:** IIB parameters must be applied for Group C and D and IIC parameters for Group A and B

\*: between the lines # resistor limited

- 44) In the **USA**: The installation must be in accordance with the National Electrical Code<sup>®</sup>, NFPA 70, Article 504 or 505 and ANSI / ISA-RP 12.6. In **Canada**: The installation must be in accordance with the Canadian Electrical Code<sup>®</sup>, Part1, Section 18.
- 45) In the **USA**: The Apparatus must be connected to a suitable ground electrode per National Electrical Code<sup>®</sup>, NFPA 70, Article 504 or 505. The resistance of the ground pad must be less than 1 ohm. In **Canada**: The Apparatus must be connected to a suitable ground electrode per Canadian Electrical Code<sup>®</sup>, Part 1. The resistance of the ground pad must be less than 1 ohm.
- 46) The apparatus must not be connected to any device that uses or generates in excess of 250Vrms or 250Vdc.
- 47) **DC supply** (12V DC – 30V DC) for **RS422** (IS connection to LV3) **only!**
- 48) The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of Voc, Isc and Pmax resp. Uo, Io, Po of the associated apparatus are less than or equal to Vmax, Imax and Pmax resp. Ui, Ii, Pi of the intrinsically safe apparatus and the approved values of Ca and La resp. Co and Lo of the associated apparatus are greater than Ci and Li of the intrinsically safe apparatus plus all cable parameters.
- 49) Ambient temperature range: -20°C .... +50°C (-4°F .... +122°F)
- 50) **WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

|                |            |                                             |                            |          |                |
|----------------|------------|---------------------------------------------|----------------------------|----------|----------------|
| Factory Mutual | 2018-12-16 | Avery Weigh-Tronix, LLC<br>Fairmont, MN USA | CONTROL DRAWING, FM, ZM155 |          |                |
|                | E. Holland |                                             | AWT35-501828               | Issue AC | Sheet 10 of 12 |

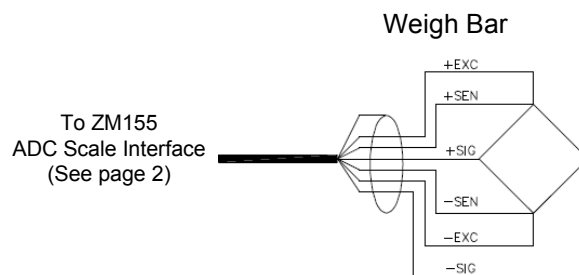
## Weigh Bars:

### Bench Weigh Bars:

|           |              |                                       |
|-----------|--------------|---------------------------------------|
| FLS-45    | 49098-0059   | W/B ASSY, 45 LB CAP, W/TINNED LEADS   |
| FLS-75    | 49098-0067   | W/B ASSY, 75 LB CAP, W/TINNED LEADS   |
| FLS-125   | 49098-0075   | W/B ASSY, 125 LB CAP, W/TINNED LEADS  |
| FLS-250   | 49098-0083   | W/B ASSY, 250 LB CAP, W/TINNED LEADS  |
| FLS-625   | 49098-0109   | W/B ASSY, 625 LB CAP, W/TINNED LEADS  |
| FLS-625   | 49100-0014   | W/B ASSY, 625 LB CAP W/CONNECTOR      |
| FLS-625   | 49100-0022   | W/B ASSY, 625 LB CAP, W/TINNED LEADS  |
| FLS-625   | AWT27-500186 | W/B ASSY, 625 LB CAP, W/TINNED LEADS  |
| FLS-1.25K | 49100-0030   | W/B ASSY, 1250 LB CAP, W/CONNECTOR    |
| FLS-1.25K | 49100-0048   | W/B ASSY, 1250 LB CAP, W/TINNED LEADS |

### Deck Weigh Bars:

|            |              |                                                 |
|------------|--------------|-------------------------------------------------|
| WBL-.500K  | 45364-0070   | W/B ASSY, 500 LB CAP, 6' CABLE, W/TINNED LEADS  |
| WBL-.500K  | 45364-0104   | W/B ASSY, 500 LB CAP, 10' CABLE, W/TINNED LEADS |
| WBL-1000kg | AWT27-500147 | W/B ASSY, 1000 KG CAP, 5' CABLE W/TINNED LEADS  |
| WBL-1000kg | AWT27-500148 | W/B ASSY, 1000 KG CAP, 10' CABLE W/TINNED LEADS |
| WBL-1000kg | AWT27-500152 | W/B ASSY, 1000 KG CAP, 25' CABLE W/TINNED LEADS |
| WBL-2000kg | AWT27-500130 | W/B ASSY, 2K KG CAP, 5' CABLE W/TINNED LEADS    |
| WBL-2000kg | AWT27-500131 | W/B ASSY, 2K KG CAP, 10' CABLE W/TINNED LEADS   |
| WBL-4000kg | AWT27-500133 | W/B ASSY, 4K KG CAP, 5' CABLE W/TINNED LEADS    |
| WBL-4000kg | AWT27-500134 | W/B ASSY, 4K KG CAP, 10' CABLE W/TINNED LEADS   |
| WBP-1.25K  | AWT27-500196 | W/B ASSY, 1250 LB CAP, 10' CABLE W/TINNED LEADS |
| WBP-1.25K  | AWT27-500197 | W/B ASSY, 1250 LB CAP, 25' CABLE W/TINNED LEADS |
| WBP-2.50K  | AWT27-500198 | W/B ASSY, 2500 LB CAP, 10' CABLE W/TINNED LEADS |
| WBP-2.50K  | 19180-0010   | W/B ASSY, 2500 LB CAP, 25' CABLE W/TINNED LEADS |
| WBP-5.00K  | AWT27-500199 | W/B ASSY, 5000 LB CAP, 10' CABLE W/TINNED LEADS |
| WBP-5.00K  | 17257-0129   | W/B ASSY, 5000 LB CAP, 25' CABLE W/TINNED LEADS |



### ATTENTION!

LOADCELL & SUMMING BOX  
MUST BE FM APPROVED FOR  
APPROPRIATE HAZARDOUS  
AREA AND ENTITY PARAMETERS

|                       |            |                                                     |                                   |                 |                       |
|-----------------------|------------|-----------------------------------------------------|-----------------------------------|-----------------|-----------------------|
| <b>Factory Mutual</b> | 2018-12-16 | <b>Avery Weigh-Tronix, LLC<br/>Fairmont, MN USA</b> | <b>CONTROL DRAWING, FM, ZM155</b> |                 |                       |
|                       | E. Holland |                                                     | <b>AWT35-501828</b>               | <b>Issue AC</b> | <b>Sheet 11 of 12</b> |

**Summing Junction Boxes:**

JBOX ASSY:

|              |                                                |
|--------------|------------------------------------------------|
| 41428-0016   | ASSY, J-BOX W/(4) .25 (1) .31                  |
| 41428-0024   | ASSY, J-BOX W/(5) .19 (1) .25, (1) .31 EXTRA   |
| 41428-1014   | ASSY, J-BOX W/(4) .25 (1) .31 W/O PC BD        |
| AWT15-500067 | ASSY, J-BOX W/(5) .25, (1) .25 (1) SOLID EXTRA |
| 50063-0066   | JUNCTION BOX, 4 WB, SST (SM CA)                |
| 50063-0074   | JUNCTION BOX, 4 WB, SST w/ZERO                 |
| 50063-0124   | JUNCTION BOX, 4 WB, SST, DSL (SM CA)           |

