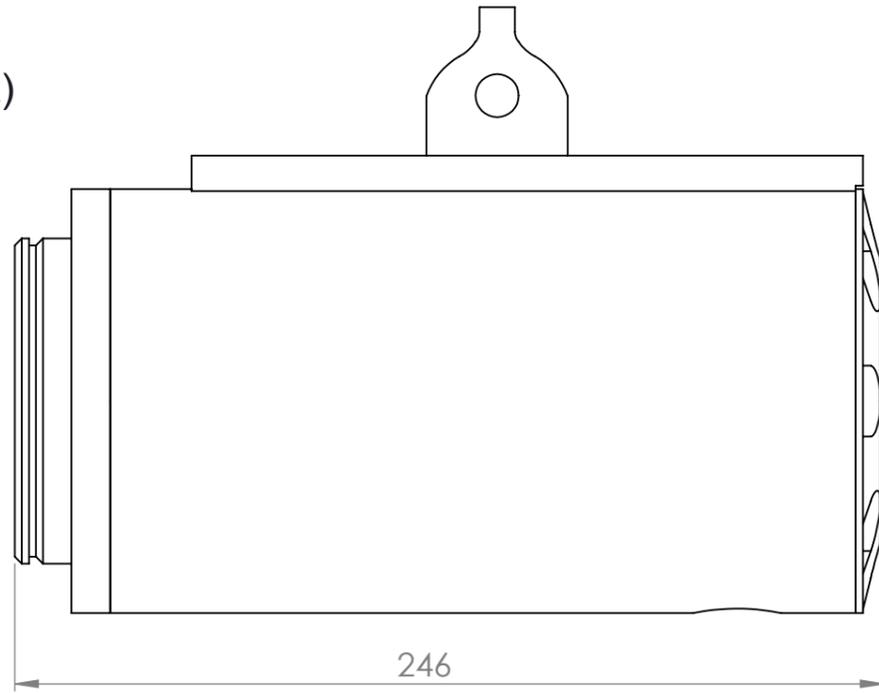
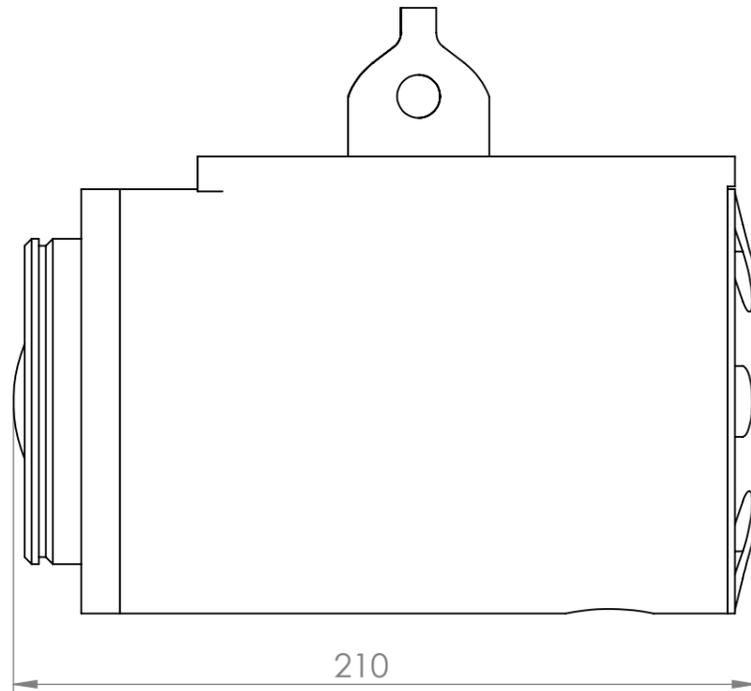


TX
(TRANSMITTER)



RX
(RECEIVER)



TX
(TRANSMITTER)



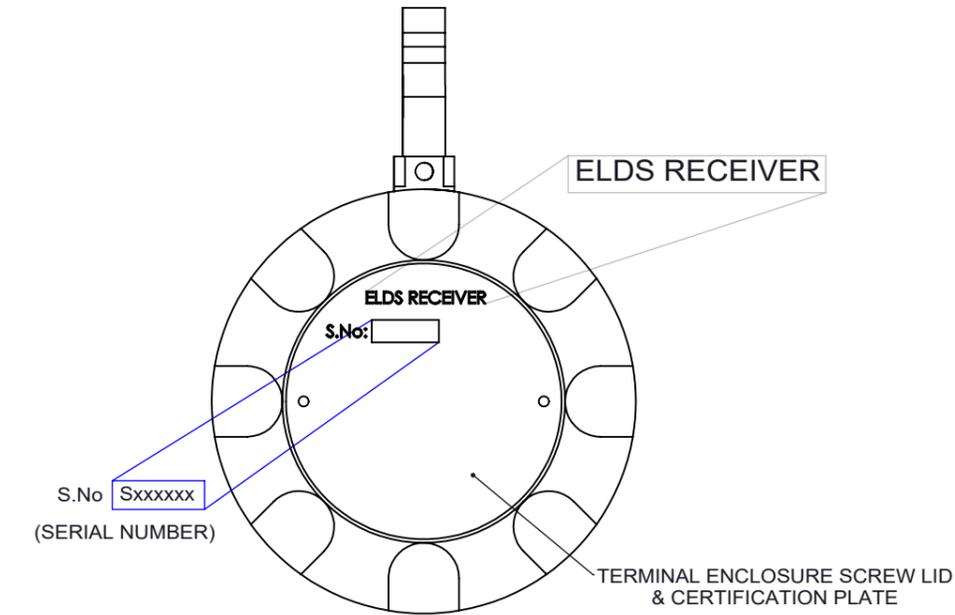
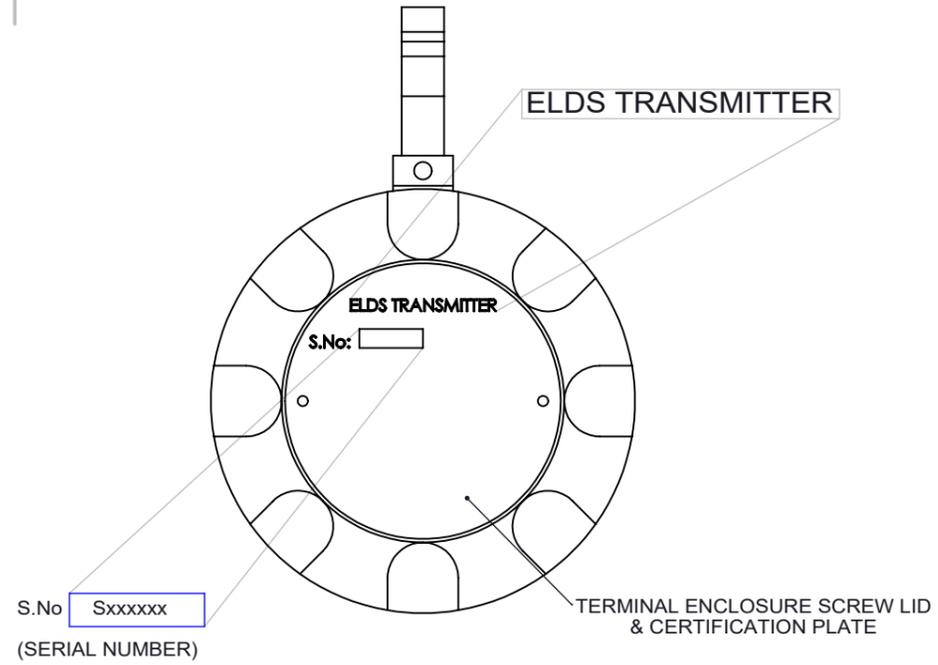
RX
(RECEIVER)



Path Length: 5 - 200 m (Gas Dependent)

Revisions

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

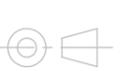


All Dimensions in mm unless stated



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DO NOT SCALE DWG.

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CODE SYMBOLS

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- MAJOR A \triangle MINOR (NO MARK)
- MAJOR B \triangle
- 100% INSPECTION \triangle

METRIC TOLERANCES UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M)

0.5 TO >6 TO	6mm ±0.1 30mm ±0.2
>130 TO >120 TO	120mm ±0.3 400mm ±0.5
>400 TO	1000mm ±0.8

ANGULAR ± 1/2°
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE	APPROVAL AGENCY CODE	NIOSH ATTR. DOC.
DRAWN BY PDR	21/03/18		
CHECKED BY LPR	21/03/18		
PROJECT ENGR. PDR	21/03/18		
QUALITY ASSURANCE SPC	21/03/18		
MANUFACTURING SM	21/03/18		
SHEET SIZE A3			

ELDS Open Path
Installation Outline Drawings
General Arrangement

CADD REF: N/A

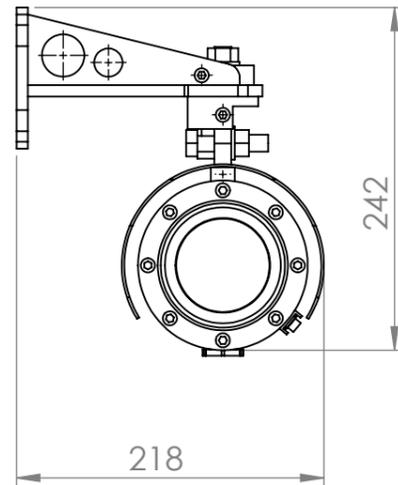
SCALE 1:2

01-01-2556-D

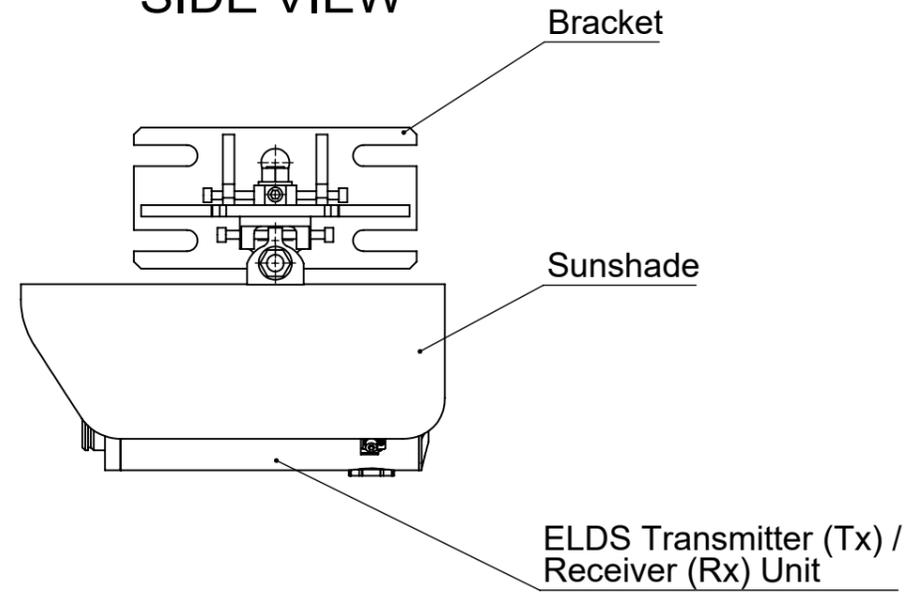
SHEET 1 OF 11

LIFE CYCLE STATE	REVISION
	2

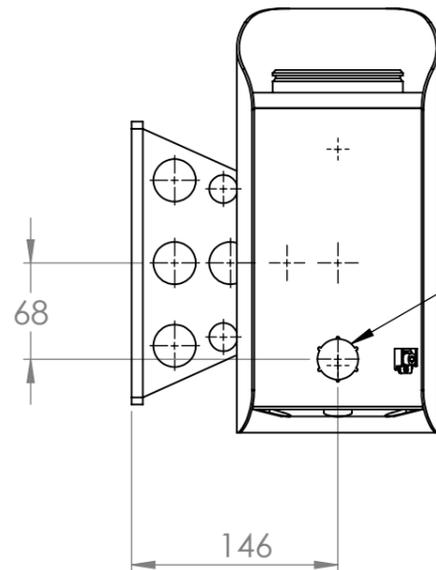
FRONT VIEW



SIDE VIEW

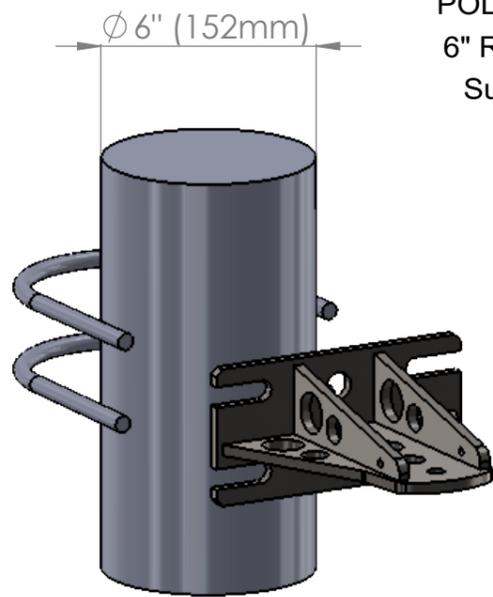


PLAN VIEW (underside)



M25 or 3/4 NPT cable entry.
Dependent on Certification

UNIT	WEIGHT (Kg)	MATERIAL
Bracket	3.05	SS 316
Sunshade	1.0	SS 316
Rx (Unit Only)	7.4	SS 316
Tx (Unit Only)	8.2	SS 316
Rx (Complete)	11.45	SS 316
Tx (Complete)	12.24	SS 316



POLE MOUNTING
6" Recommended
Supports 4 - 6"

Revisions

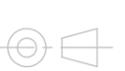
Rev 1 - 21/3/17
Rev 2 - 23/3/18 DR 226

All Dimensions in mm unless stated



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>6 TO >130 TO	30mm ±0.2
>130 TO >120 TO	120mm ±0.3
>120 TO >400 TO	400mm ±0.5
>400 TO	1000mm ±0.8

ANGULAR ± 1/2°
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE
DRAWN BY PDR	21/03/18
CHECKED BY LPR	21/03/18
PROJECT ENGR. PDR	21/03/18
QUALITY ASSURANCE SPC	21/03/18
MANUFACTURING SM	21/03/18
SHEET SIZE A3	

APPROVAL AGENCY CODE	NIOSH ATTR. DOC.
ELDS Open Path Installation Outline Drawings Standard Mounting Details	
CADD REF: N/A	SCALE 1:4
01-01-2556-D	

REVISION
2

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

SHEET
2 OF 11

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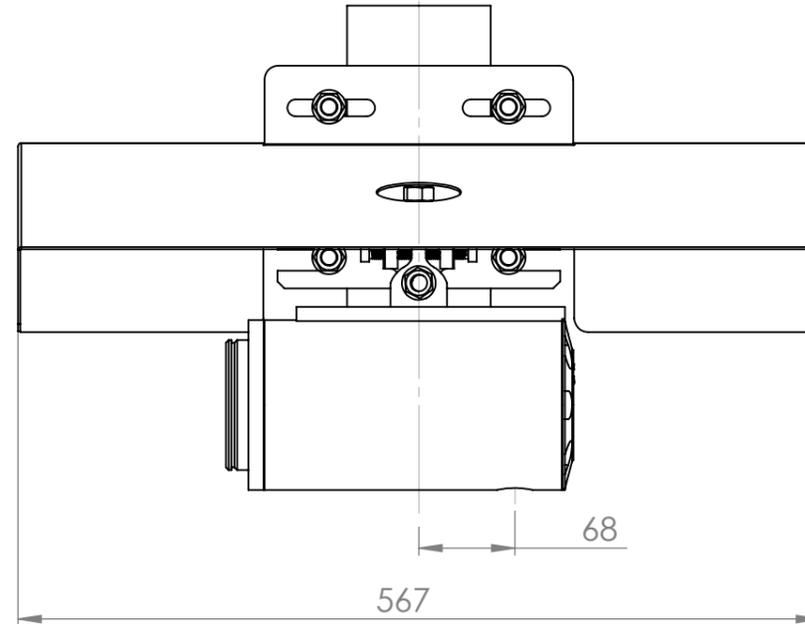
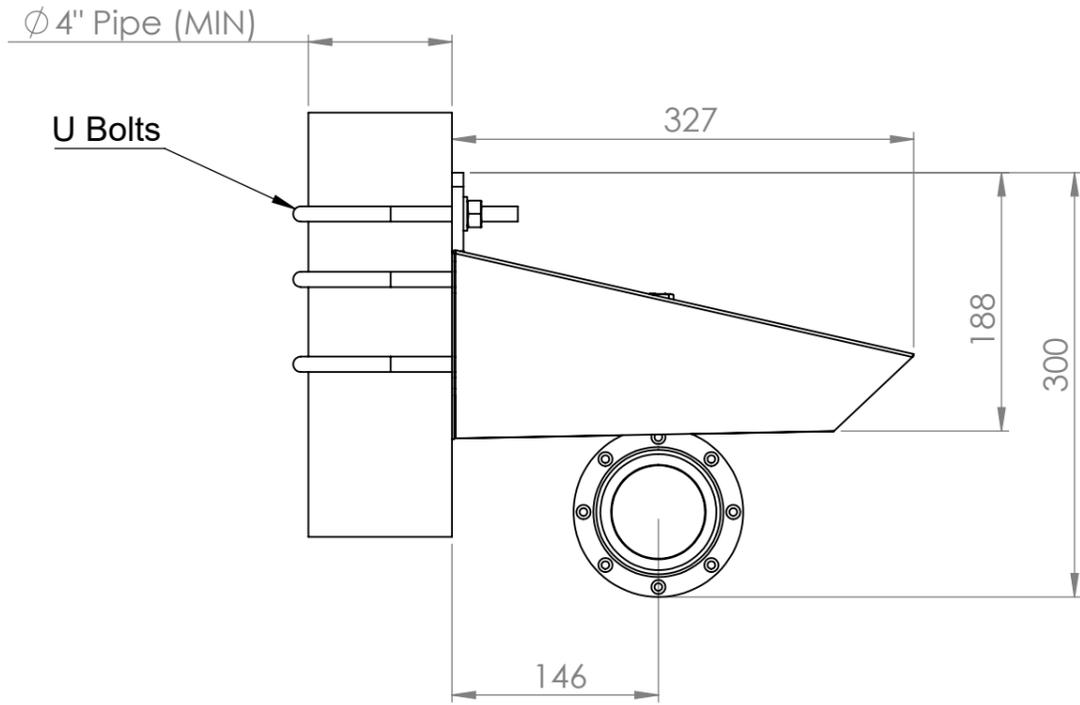
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Revisions

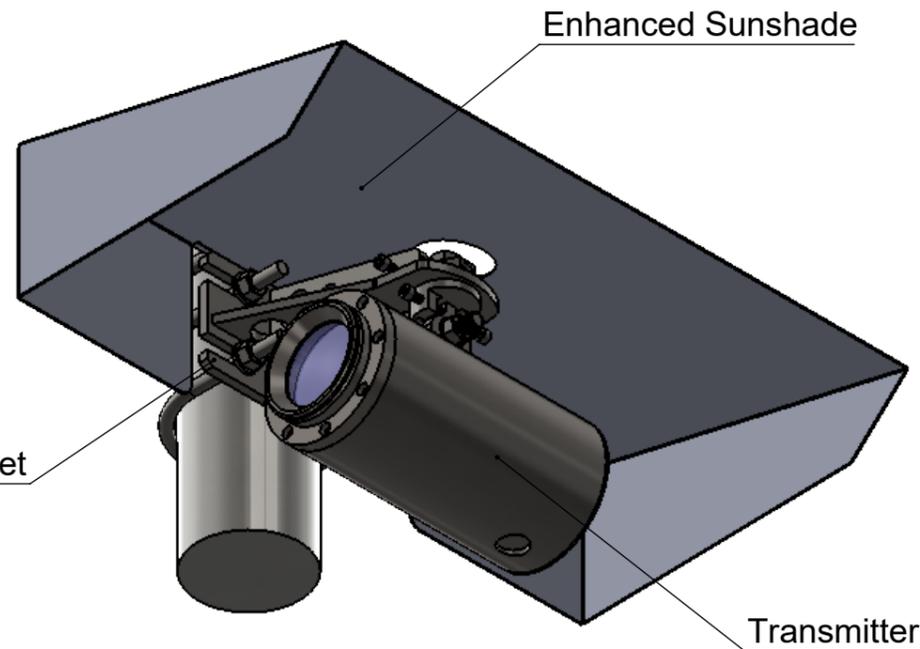
Rev 2 - 23/3/18 DR 226

FRONT VIEW

SIDE VIEW



UNIT	WEIGHT (Kg)	MATERIAL
Bracket	3.05	SS-316
Enhanced Sunshade	4	SS-316
Rx (Unit Only)	7.4	SS-316
Tx (Unit Only)	8.2	SS-316
Rx (Complete)	14.45	SS-316
Tx (Complete)	15.25	SS-316



All Dimensions in mm unless stated

LIFE CYCLE STATE

REVISION

2



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>6 TO >120 TO	30mm ±0.2
>120 TO >400 TO	120mm ±0.3
>400 TO	400mm ±0.5
ANGULAR	± 1/2°

SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE	APPROVAL AGENCY CODE	NIOSH ATTR. DOC.
PDR	21/03/18		
CHECKED BY LPR	21/03/18		
PROJECT ENGR PDR	21/03/18		
QUALITY ASSURANCE SPC	21/03/18		
MANUFACTURING SM	21/03/18		
SHEET SIZE A3			

ELDS Open Path Installation Outline Drawings Enhanced Sunshade Mounting

CADD REF: N/A

SCALE 1:10

01-01-2556-D

SHEET 3 OF 11

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)

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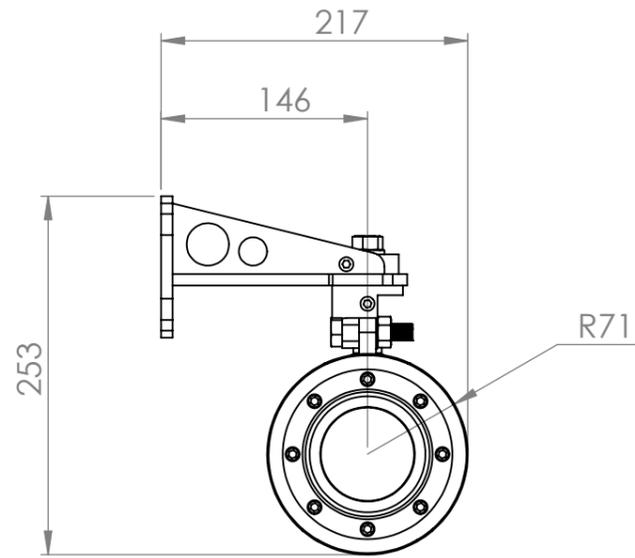
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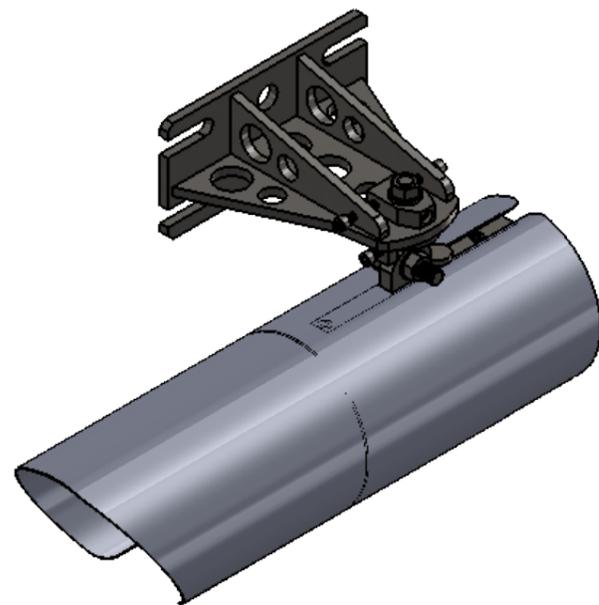
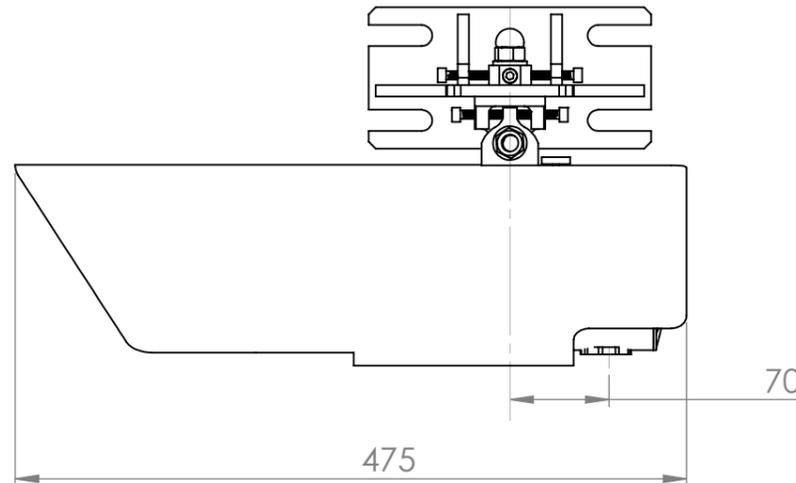
Revisions

Rev 2 - 23/3/18 DR 226

FRONT VIEW



SIDE VIEW



UNIT	WEIGHT (Kg)	MATERIAL
Bracket	3.05	SS 316
Snow Cover	3.5	SS 316
Rx (Unit Only)	7.4	SS 316
Tx (Unit Only)	8.2	SS 316
Rx (Complete)	13.95	SS 316
Tx (Complete)	14.75	SS 316

All Dimensions in mm unless stated

LIFE CYCLE STATE	REVISION
	2



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>6 TO >130	30mm ±0.2
>130 TO >120	120mm ±0.3
>120 TO >400	400mm ±0.5
>400 TO	1000mm ±0.8

ANGULAR ± 1/2°
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE	APPROVAL AGENCY CODE	NIOSH ATTR. DOC.:
DRAWN BY PDR	21/03/18		
CHECKED BY LPR	21/03/18		
PROJECT ENGR PDR	21/03/18		
QUALITY ASSURANCE SPC	21/03/18		
MANUFACTURING SM	21/03/18		
SHEET SIZE A3			

ELDS Open Path
Installation Outline Drawings
Snow Shield

CADD REF: N/A

SCALE 1:5

01-01-2556-D

SHEET 4 OF 11

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)

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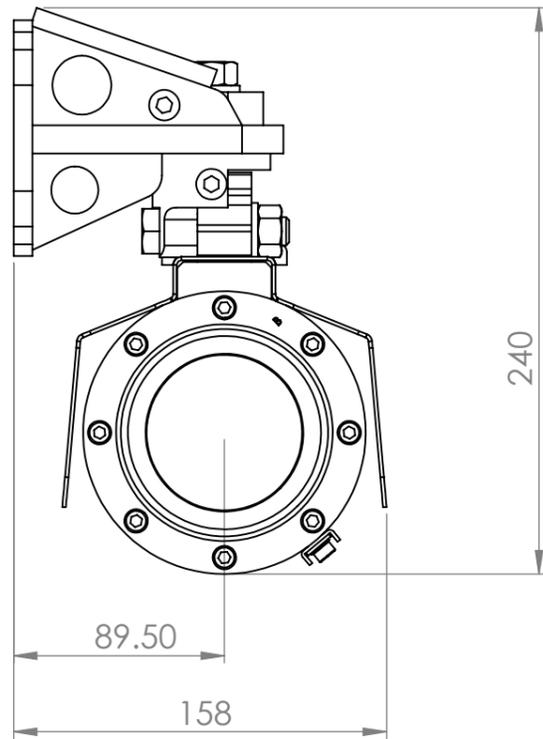
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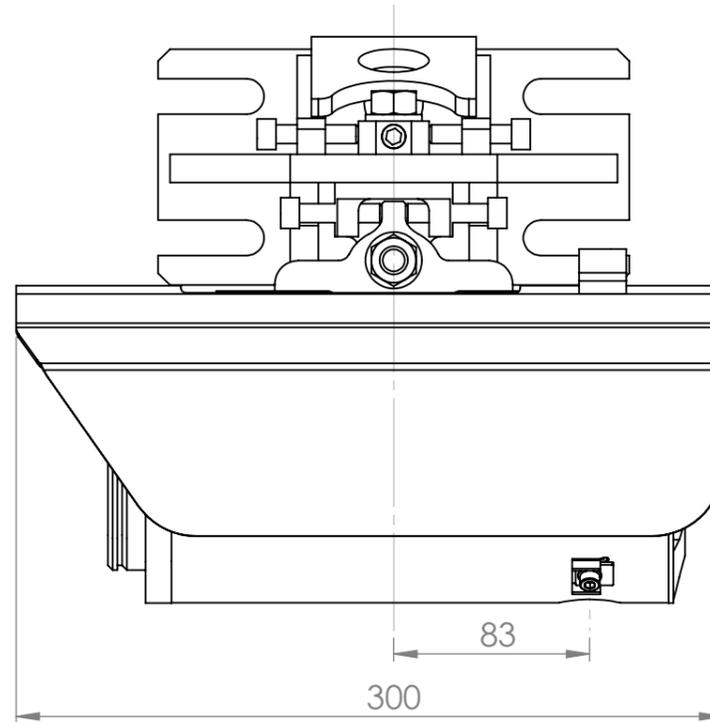
Revisions

Rev 2 - 23/3/18 DR 226

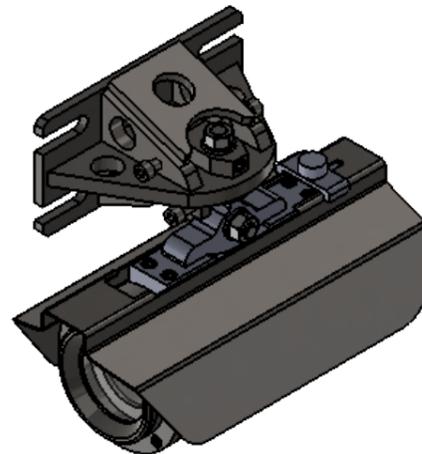
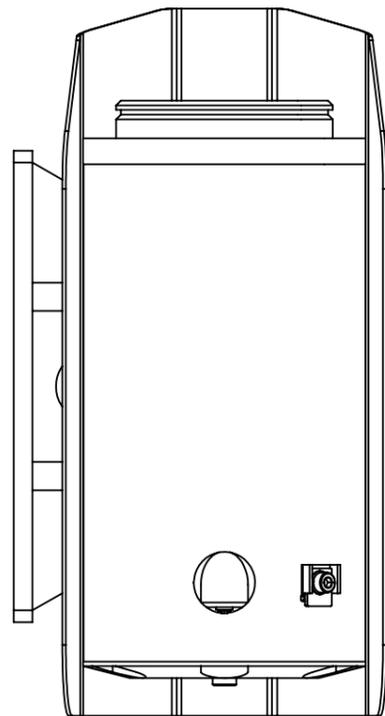
FRONT VIEW



SIDE VIEW



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 (Compete)	12.6	SS 316
Tx (Complete)	17.2	SS 316



All Dimensions in mm unless stated

LIFE CYCLE STATE

REVISION

2



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CODE SYMBOLS

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- MAJOR B \triangle
- 100% INSPECTION \triangle

METRIC TOLERANCES UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M)

0.5 TO >6 TO	6mm ±0.1
>6 TO >120 TO	30mm ±0.2
>120 TO >400 TO	120mm ±0.3
>400 TO	400mm ±0.5
ANGULAR	± 1/2°

SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE	APPROVAL AGENCY CODE	NIOSH ATTR. DOC.
DRAWN BY: PDR	21/03/18		
CHECKED BY: LPR	21/03/18		
PROJECT ENGR: PDR	21/03/18		
QUALITY ASSURANCE: SPC	21/03/18		
MANUFACTURING: SM	21/03/18		
SHEET SIZE: A3			

ELDS Open Path Installation Outline Drawings FM Variant

CADD REF: N/A

SCALE 1:3

01-01-2556-D

SHEET 5 OF 11

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)

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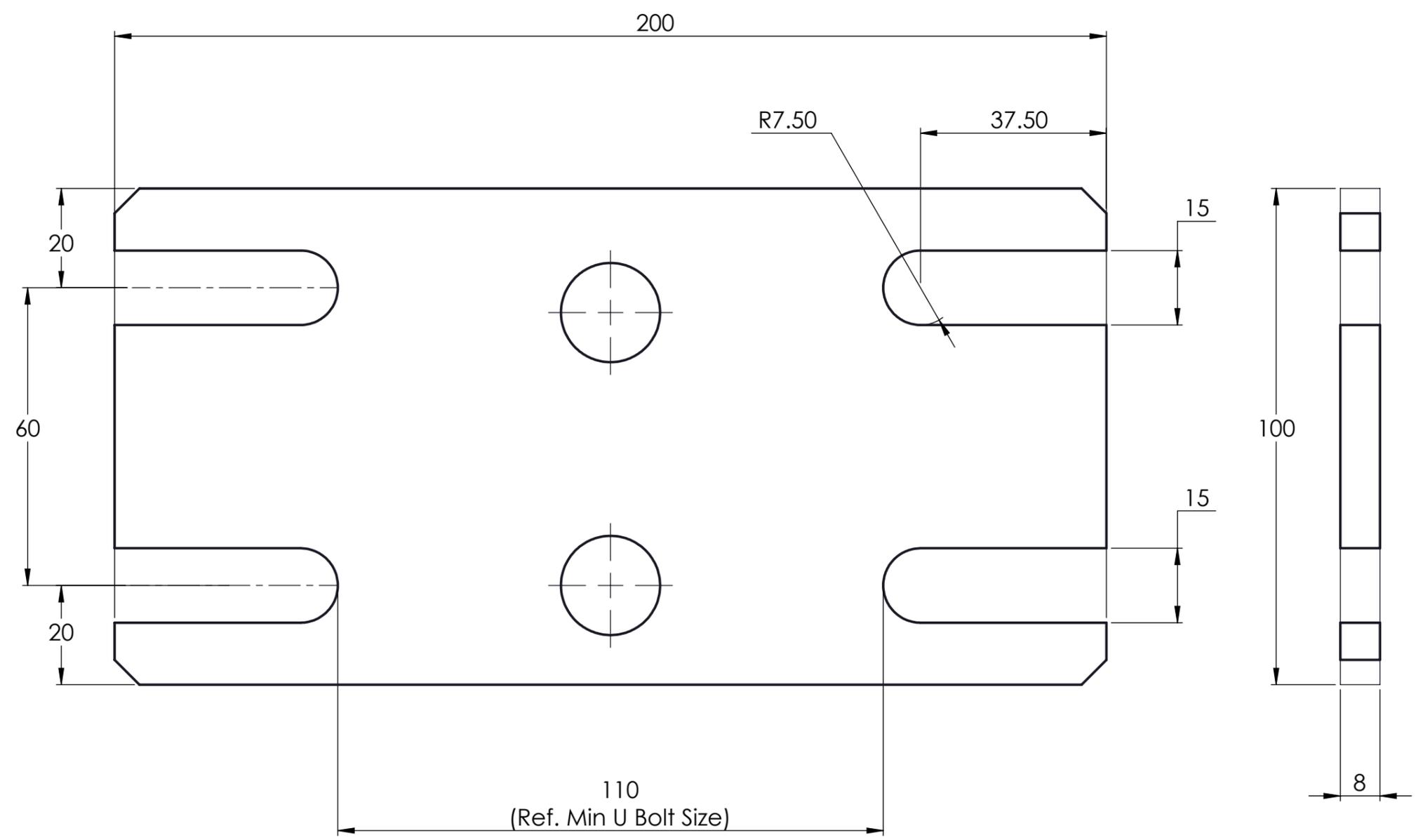
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6 5 4 3 2 1

Revisions

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



110
(Ref. Min U Bolt Size)

All Dimensions in mm unless stated

Illustration and dimensions suitable for Standard and FM bracket

LIFE CYCLE STATE	REVISION
	2

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	MSA STANDARD SHOP PRACTICES APPLY		
CODE SYMBOLS CRITICAL MAJOR A MINOR (NO MARK) MAJOR B 100% INSPECTION	JOB NO. PDR DATE 21/03/18 CHECKED BY LPR 21/03/18 PROJECT ENGR PDR 21/03/18 QUALITY ASSURANCE SPC 21/03/18 MANUFACTURING SM 21/03/18 SHEET SIZE A3	APPROVAL AGENCY CODE NIOSH ATTR. DOC.:	ELDS Open Path Installation Outline Drawings Bracket Footprint
METRIC TOLERANCES UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M) 0.5 TO 6mm ±0.1 >6 TO 30mm ±0.2 >130 TO 120mm ±0.3 >120 TO 400mm ±0.5 >400 TO 1000mm ±0.8 ANGULAR ± 1/2° SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES	CADD REF: N/A	SCALE 1:1 SHEET 6 OF 11	

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)

6 5 4 3 2 1

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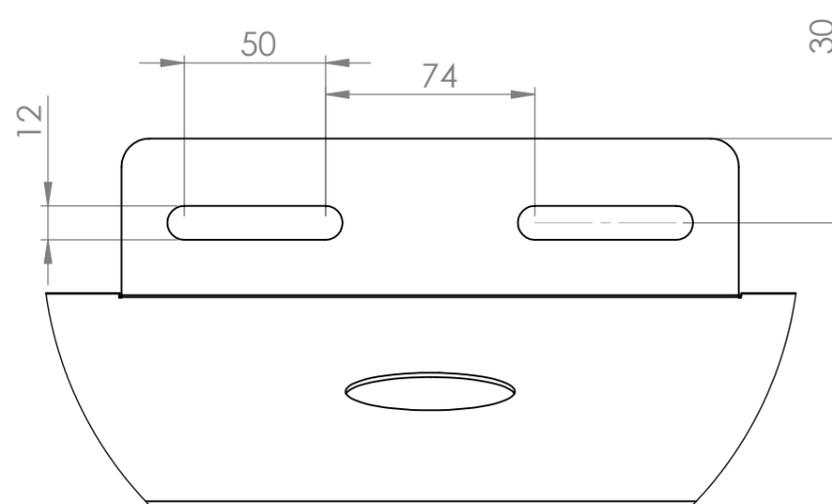
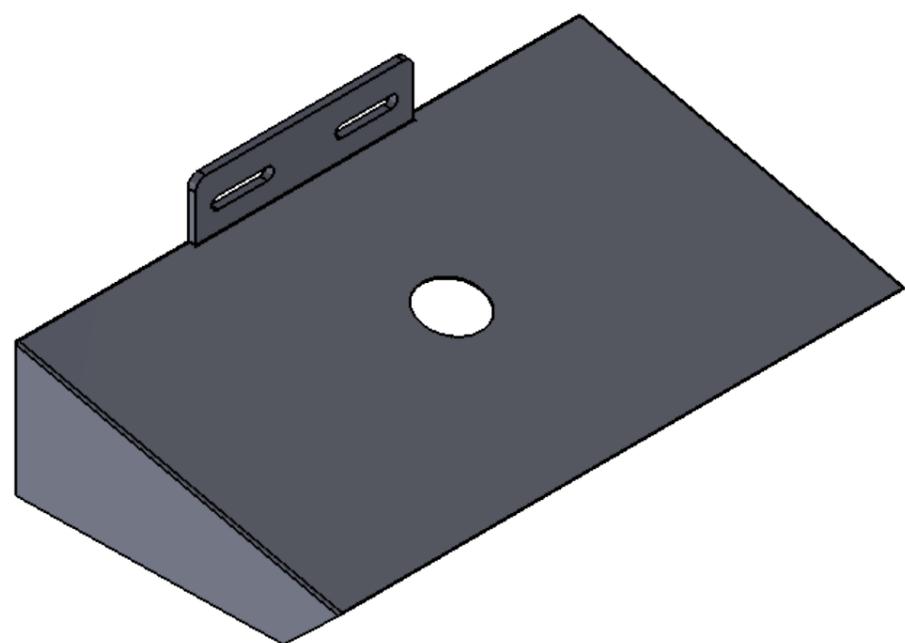
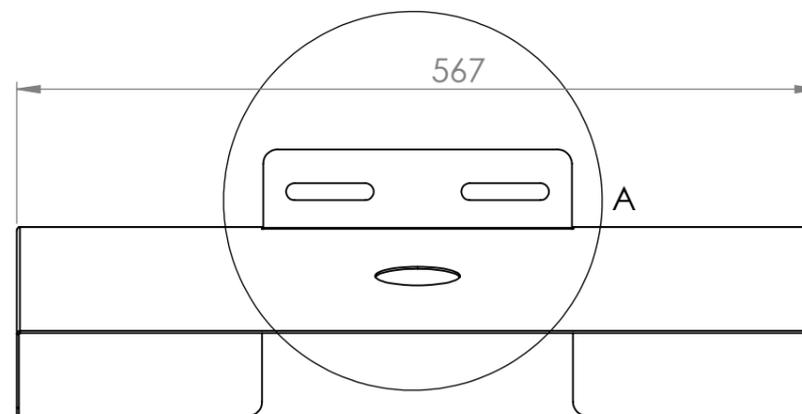
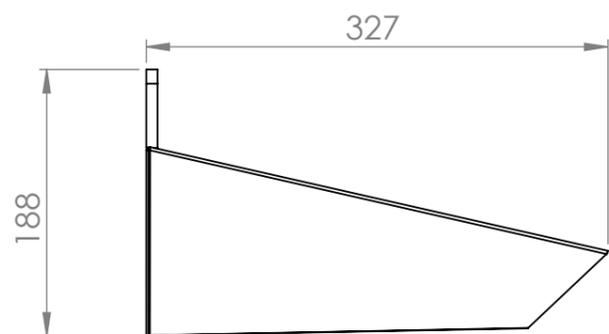
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Revisions

Rev 2 - 23/3/18 DR 226



DETAIL A
SCALE 2 : 5

Material: SS 316

All Dimensions in mm unless stated

LIFE CYCLE STATE	REVISION
	2



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>130 TO >120 TO	120mm ±0.3
>120 TO >400 TO	400mm ±0.5
>400 TO	1000mm ±0.8

ANGULAR ± 1/2°
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE	APPROVAL AGENCY CODE	NIOSH ATTR. DOC.:
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CHECKED BY LPR	21/03/18		
PROJECT ENGR. PDR	21/03/18		
QUALITY ASSURANCE SPC	21/03/18		
MANUFACTURING SM	21/03/18		
SHEET SIZE A3			

ELDS Open Path
Installation Outline Drawings
Enhanced Sunshade

CADD REF: N/A

SCALE 1:5

01-01-2556-D

SHEET 7 OF 11

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)

6

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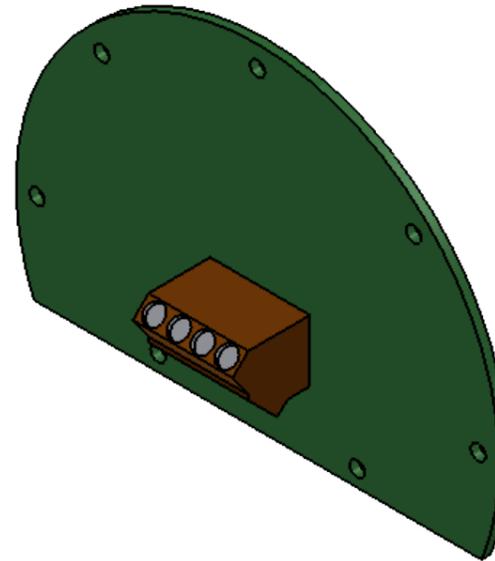
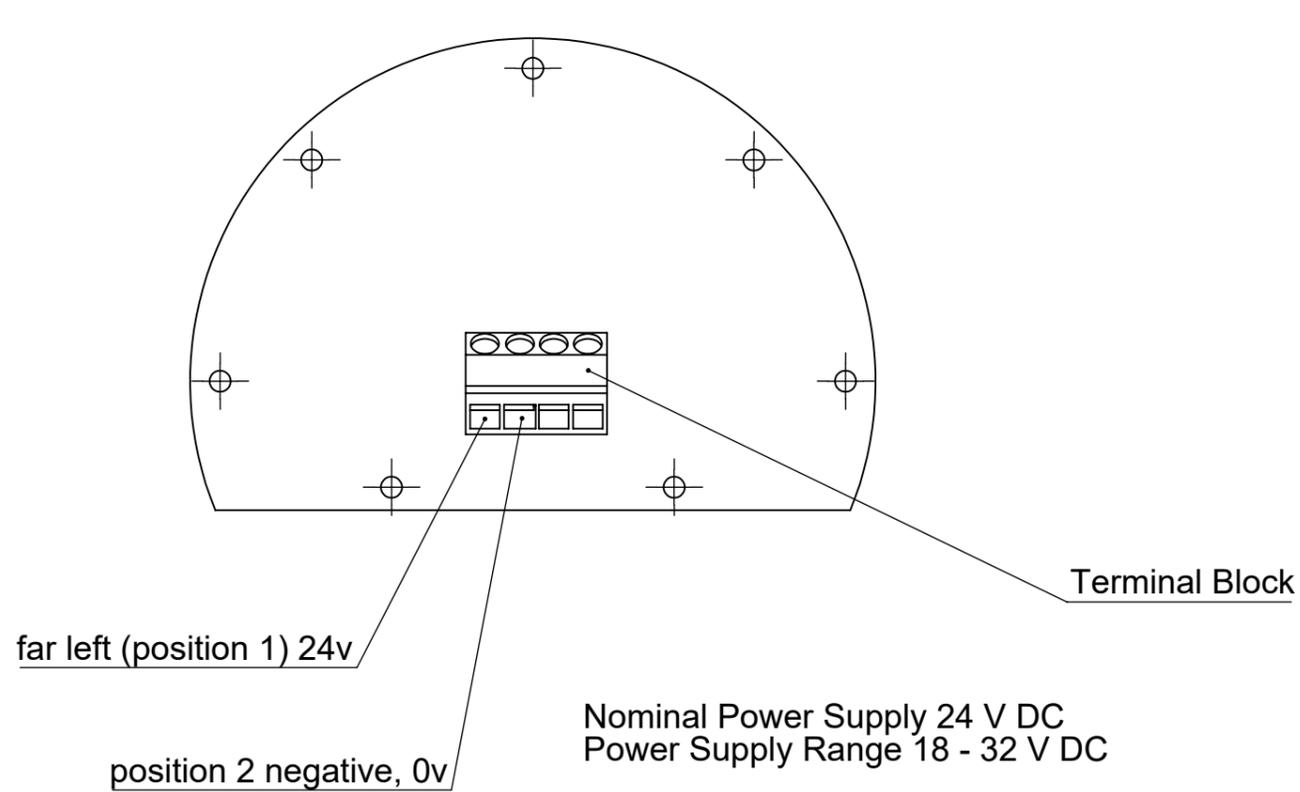
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Terminal PCB Example (Tx - Transmitter Shown)



Power Supply Connections, Wiring, and Fuses

COMPONENT	MAXIMUM POWER CONSUMPTION	MAXIMUM CABLE LENGTH WITH 1.5mm ² CONDUCTORS (12 Ohms/Km) AND 24 VDC SUPPLY	MAXIMUM CABLE LENGTH WITH 2.5mm ² CONDUCTORS (7.6 Ohms/Km) AND 24 VDC SUPPLY	TERMINAL SIZES	MINIMUM FUSE RATING	RECOMMENDED FUSE RATING
Transmitter	12 W	450 m (1476 ft)	710 m (2329 ft)	0.5 mm ² - 2.5 mm ² (20 AWG - 14 AWG)	1 A	1.5 A
Receiver	10 W	375 m (1230 ft)	1936 m (1936 ft)	0.5 mm ² - 2.5 mm ² (20 AWG - 14 AWG)	0.75 A	1 A
System (Tx+Rx)	22W	-	-	-	1.75 A	2.0 A

All Dimensions in mm unless stated

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	<small>JOB NO.</small> PDR	<small>DATE</small> 21/03/18
<small>CRITICAL</small>	<small>CHECKED BY</small> LPR	<h2 style="text-align: center;">ELDS Open Path Installation Outline Drawings Wiring - Overview</h2>
<small>MAJOR A</small>	<small>PROJECT ENGR</small> PDR	
<small>MAJOR B</small>	<small>QUALITY ASSURANCE</small> SPC	
<small>100% INSPECTION</small>	<small>MANUFACTURING</small> SM	<small>CADD REF: N/A</small>
<small>METRIC TOLERANCES UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M)</small> 0.5 TO 6mm ±0.1 >6 TO 30mm ±0.2 >130 TO 120mm ±0.3 >120 TO 400mm ±0.5 >400 TO 1000mm ±0.8 ANGULAR ± 1/2° <small>SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES</small>	<small>SHEET SIZE</small> A3	<small>SCALE</small> n/a
01-01-2556-D		<small>SHEET</small> 8 OF 11

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

REVISION
2

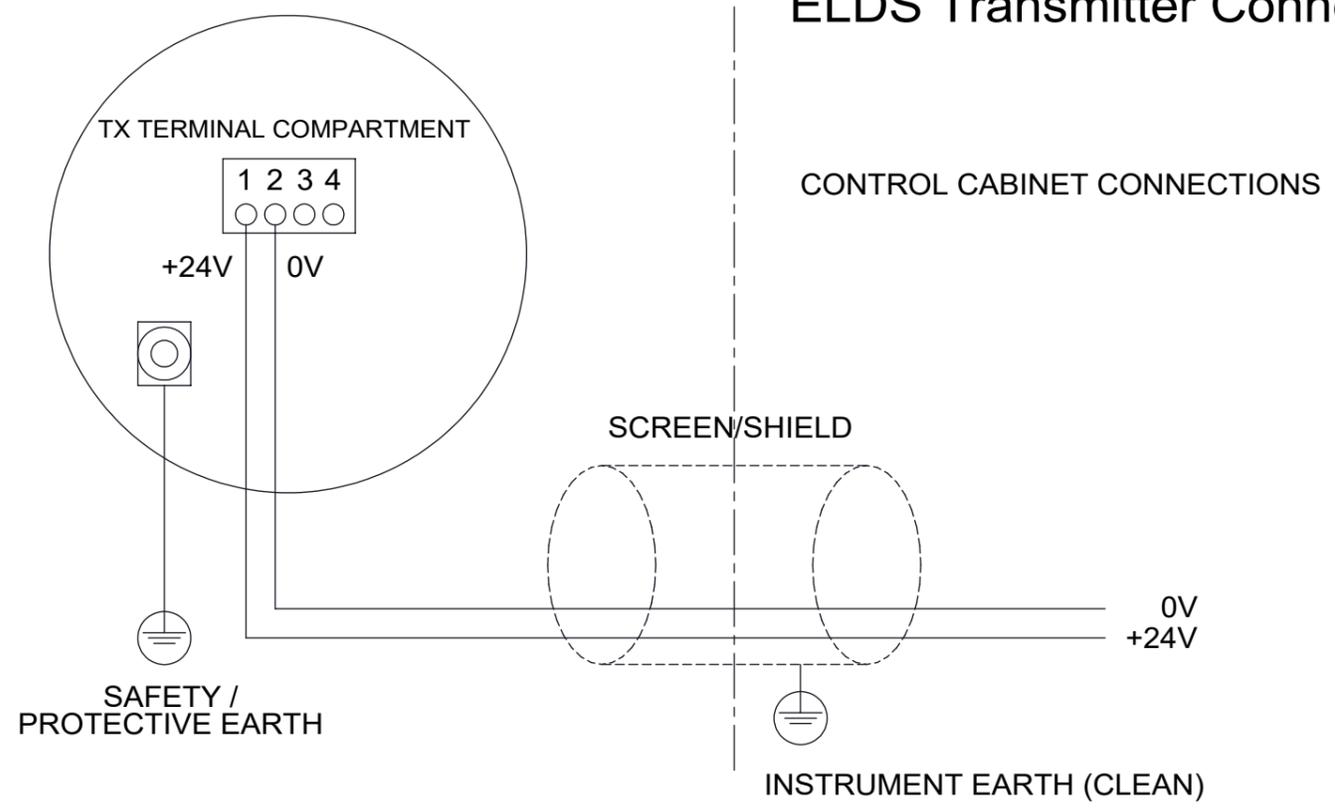
DO NOT SCALE DWG.

A

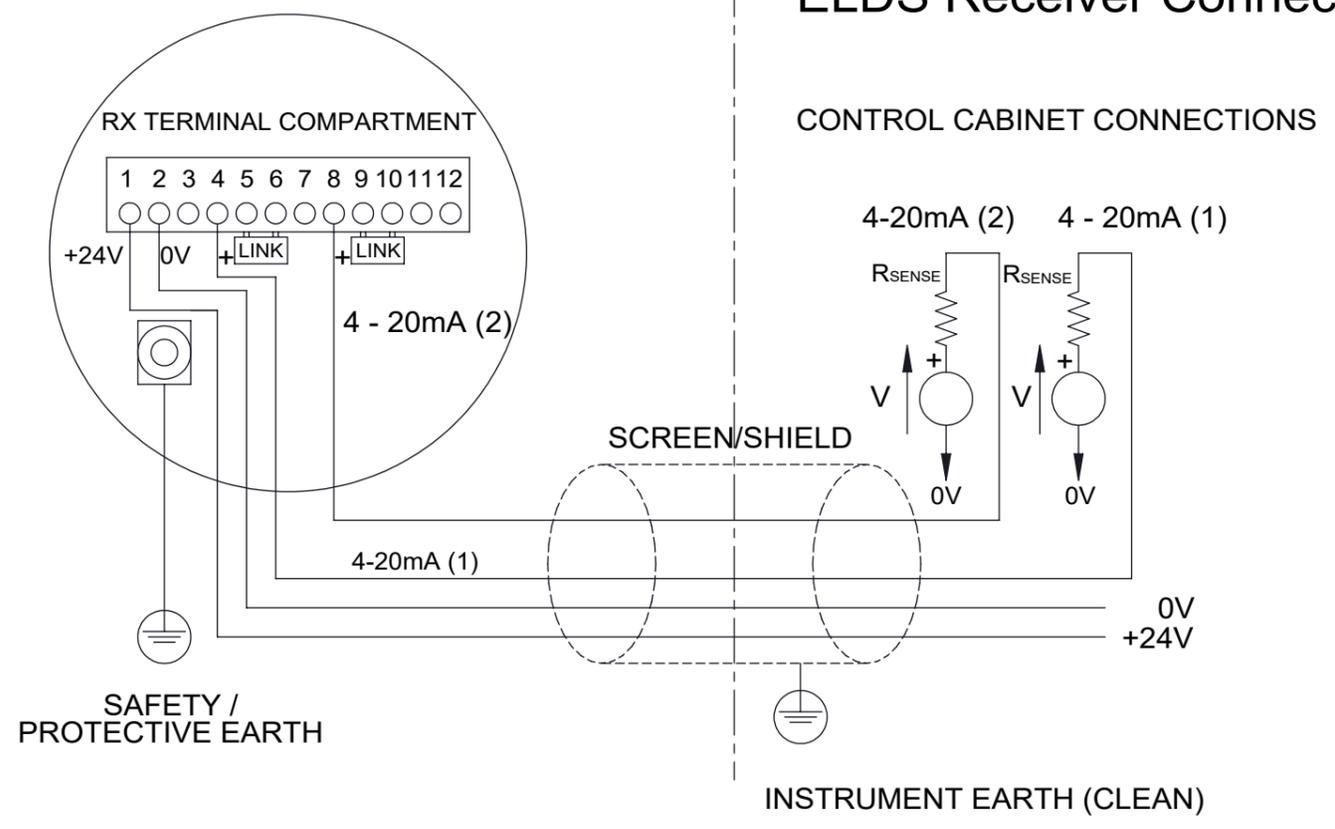
Revisions

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

ELDS Transmitter Connections



ELDS Receiver Connections (Current Sink)



All Dimensions in mm unless stated

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		<p>MSA STANDARD SHOP PRACTICES APPLY</p>	<p>JOB NO. DRAWN BY DATE</p> <p>PDR 21/03/18</p>		<p>APPROVAL AGENCY CODE</p>
<p>CRITICAL </p> <p>MAJOR A </p> <p>MAJOR B </p> <p>100% INSPECTION </p>	<p>MINOR (NO MARK)</p> <p>CHECKED BY PROJECT ENGR</p> <p>LPR PDR</p> <p>21/03/18 21/03/18</p>	<p>ELDS Open Path Installation Outline Drawings Wiring - Current Sink</p>			<p>SCALE n/a</p>
<p>METRIC TOLERANCES UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M)</p> <p>0.5 TO >6 TO >130 TO >120 TO >400 TO ANGULAR</p> <p>6mm ±0.1 30mm ±0.2 120mm ±0.3 400mm ±0.5 1000mm ±0.8 ± 1/2"</p> <p>SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES</p>	<p>QUALITY ASSURANCE MANUFACTURING</p> <p>SPC SM</p> <p>21/03/18 21/03/18</p>				

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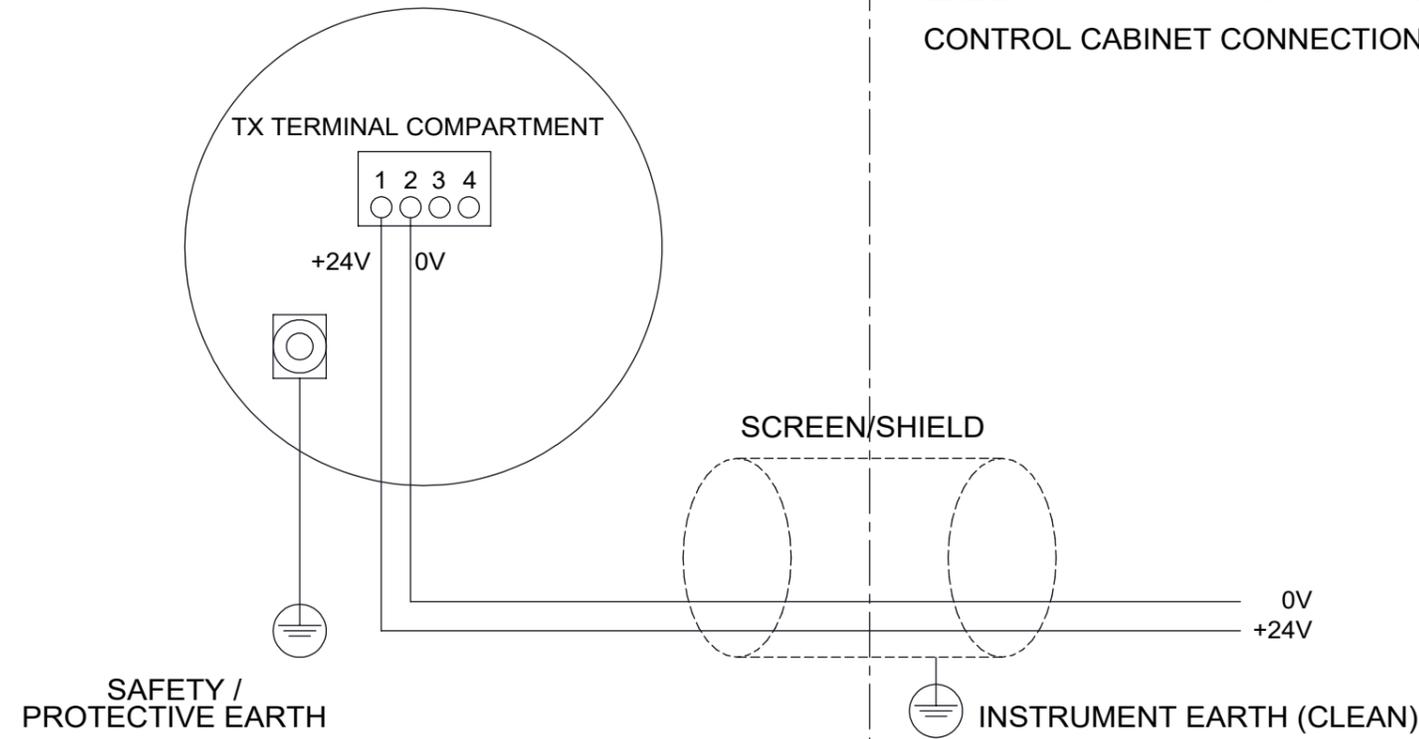
Revisions

REV 1 - 21-3-17

Rev 2 - 23/3/18 DR 226

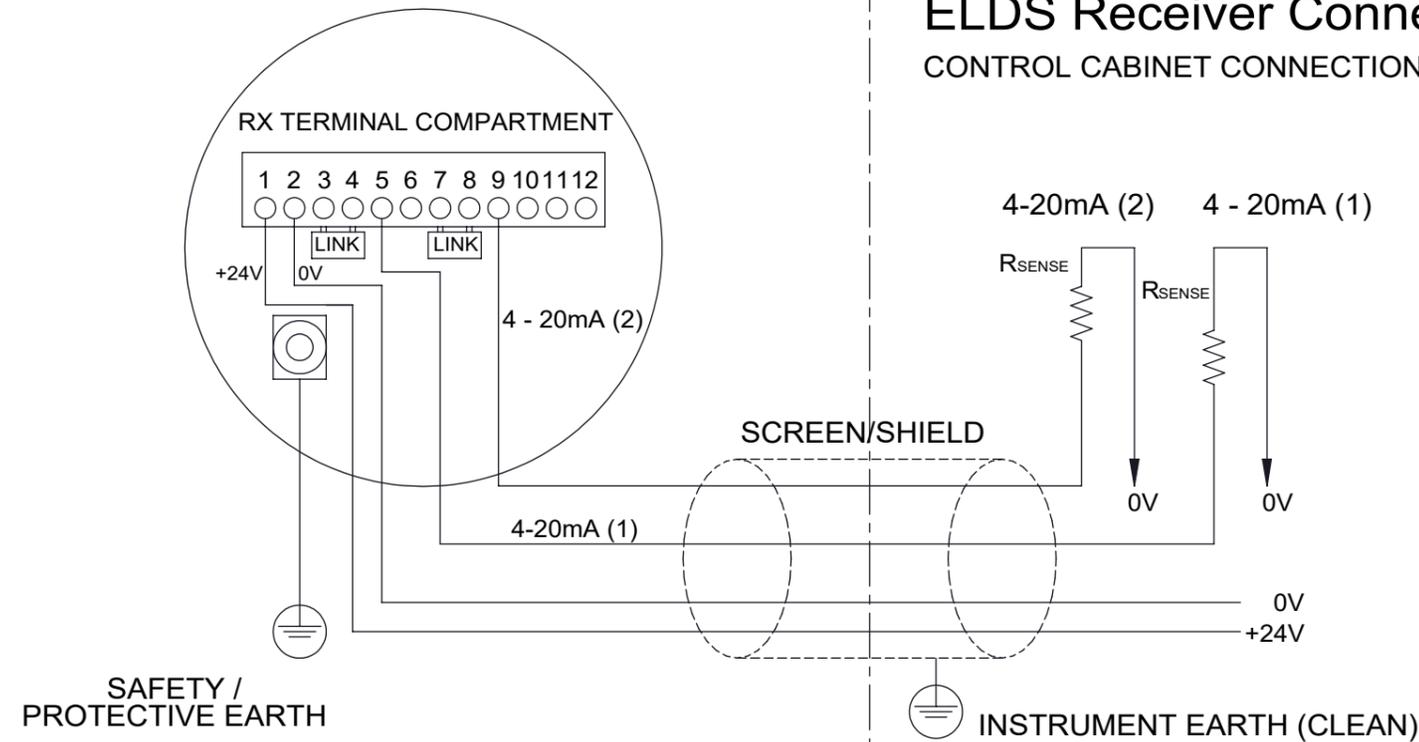
ELDS Transmitter Connections

CONTROL CABINET CONNECTIONS



ELDS Receiver Connections (Current Source)

CONTROL CABINET CONNECTIONS



All Dimensions in mm unless stated



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DO NOT SCALE DWG.

MSA STANDARD SHOP PRACTICES APPLY

CODE SYMBOLS

- CRITICAL
- MAJOR A
- MAJOR B
- 100% INSPECTION

METRIC TOLERANCES UNLESS OTHERWISE SPECIFIED (PER ISO 2768-M)

0.5 TO >6 TO	6mm ±0.1
>6 TO >130 TO	30mm ±0.2
>130 TO >120 TO	120mm ±0.3
>120 TO >400 TO	400mm ±0.5
>400 TO	1000mm ±0.8

ANGULAR ± 1/2°
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES

JOB NO.	DATE
DRAWN BY	21/03/18
CHECKED BY	
PROJECT ENGR.	21/03/18
QUALITY ASSURANCE	
SPC	21/03/18
MANUFACTURING	
SM	21/03/18
SHEET SIZE	
A3	

APPROVAL AGENCY CODE	NIOSH ATTR. DOC.:
<h1>ELDS Open Path Installation Outline Drawings</h1> <h2>Wiring - Current Source</h2>	
CADD REF: N/A	SCALE n/a
01-01-2556-D	

REVISION 2

A

SHEET 10 OF 11

6

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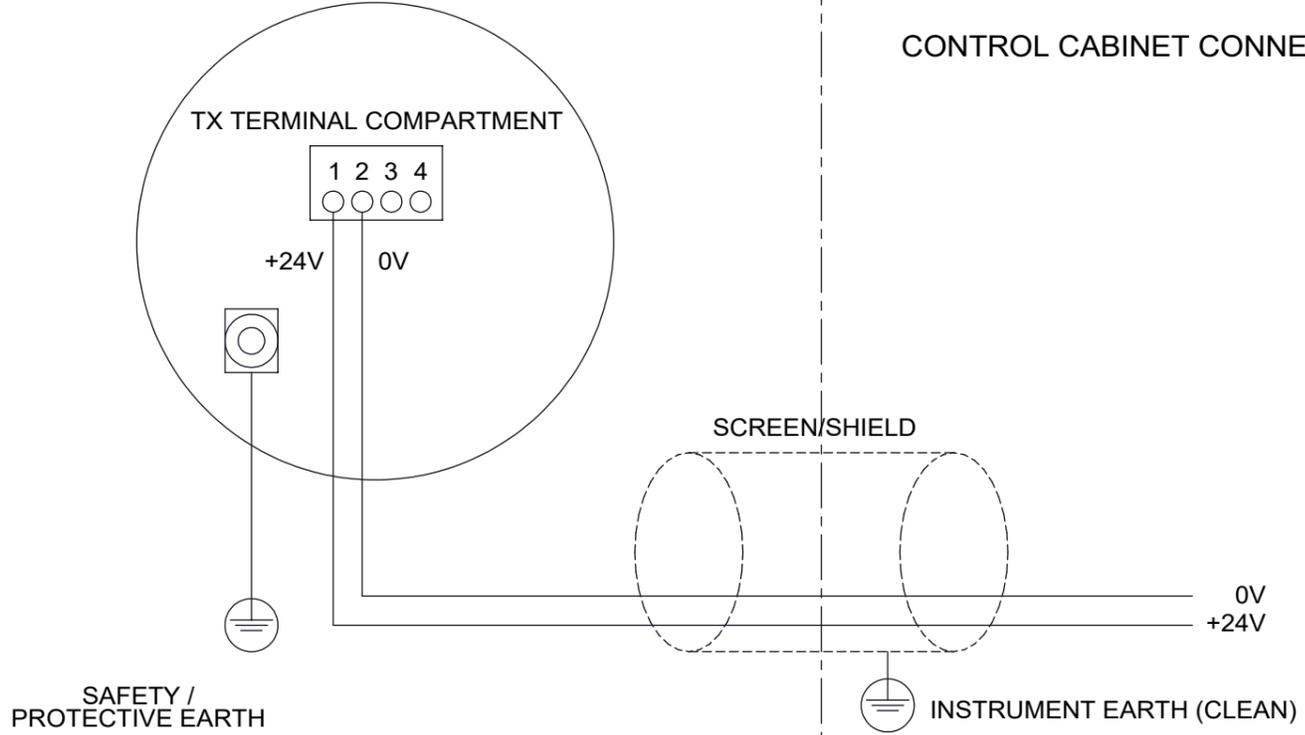
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Revisions

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

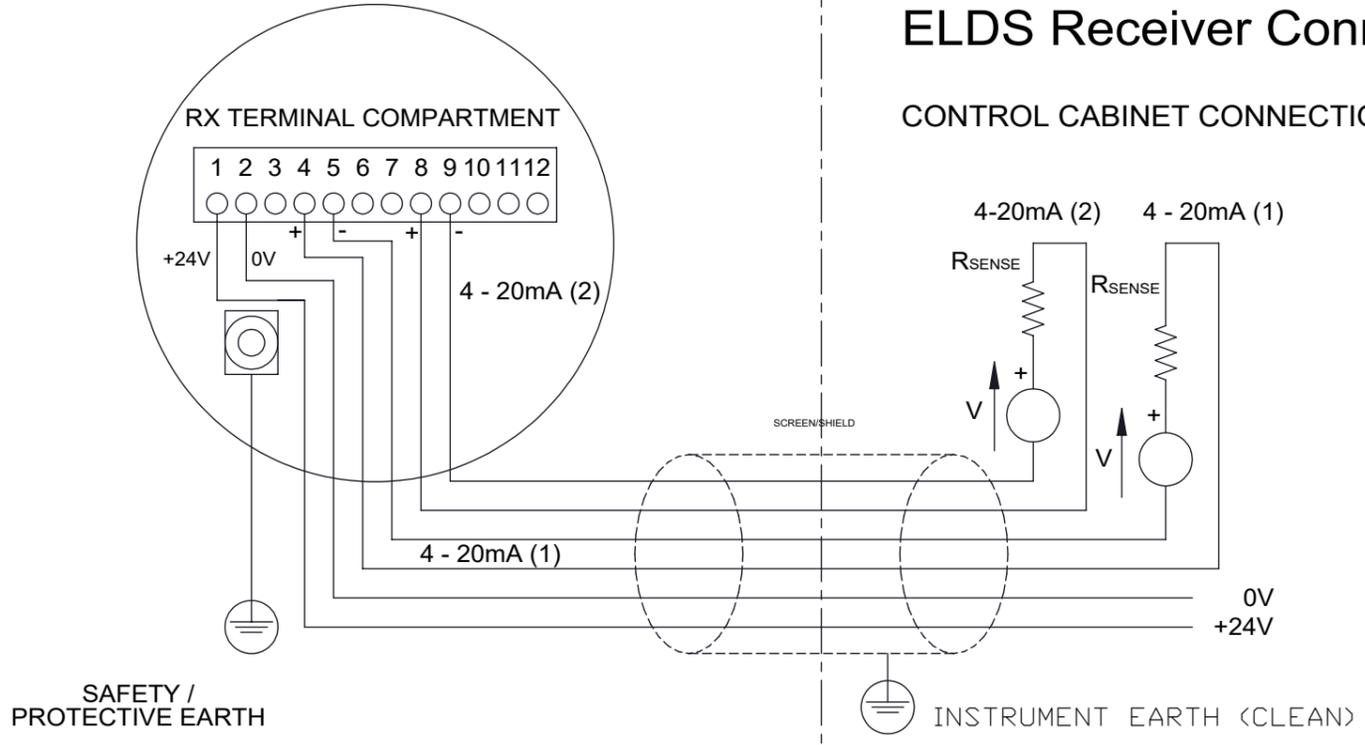
ELDS Transmitter Connections

CONTROL CABINET CONNECTIONS



ELDS Receiver Connections (Isolated Output)

CONTROL CABINET CONNECTIONS



All Dimensions in mm unless stated

LIFE CYCLE STATE	REVISION
	2



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CODE SYMBOLS	
CRITICAL \triangle	MINOR (NO MARK)
MAJOR A \triangle	MAJOR B \triangle
100% INSPECTION \triangle	

JOB NO.	DATE
PDR	21/03/18
CHECKED BY	
LPR	21/03/18
PROJECT ENGR.	
PDR	21/03/18
QUALITY ASSURANCE	
SPC	21/03/18
MANUFACTURING	
SM	21/03/18
SHEET SIZE	
A3	

APPROVAL AGENCY CODE	NIOSH ATTR. DOC.
<h2>ELDS Open Path Installation Outline Drawings</h2> <h3>Wiring - Isolated Output</h3>	
CADD REF: N/A	SCALE n/a
01-01-2556-D	
SHEET 11 OF 11	