TRANSMITTER
400750

TRANSMITTER
BANDING STRAPS

ROTOR BELT
400681-(ADD SHAFTØ)

STATOR POST
400204

THE CONTROL UNIT AND
ECR DISPLAY HAVE OPTIONAL OUTPUTS.
- USB LOGGING
- ETHERNET
- ANALOGUES (UNI OR BIPOLAR)

PLEASE SEE INDIVIDUAL PRODUCT DATASHEET FOR
MORE DETAILS

CONTROL UNIT
400711

ECR/REMOTE REPEATER
DISPLAY
400760

STRAIN GAUGE SIMULATOR
USE FOR SPM SYSTEM
TEST
400160

110/230V
AC IN
C1

9-36V DC IN

STRAIN
GAUGE AND
CONNECTOR
400165

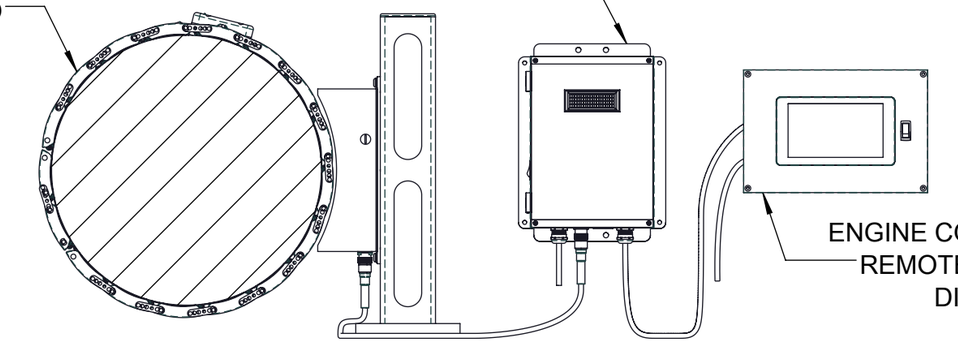
STATOR
400203-(ADD STATOR SIZE)

STATOR CABLE
C2
400223

RS485 SERIAL OUT
C4

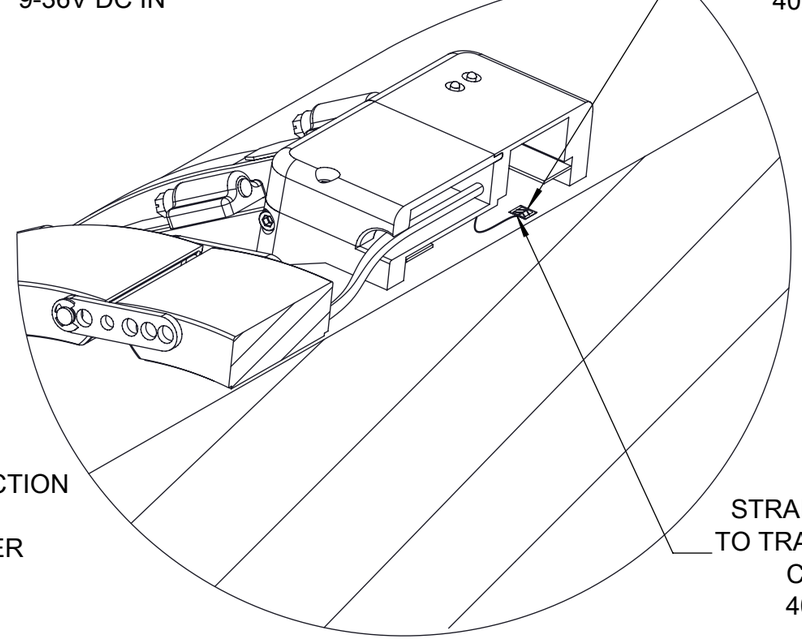
BULKHEAD OR
STATOR POST
MOUNTED
CONTROL UNIT

SHAFT SIZES
150mm TO
1150mm



ENGINE CONTROL ROOM
REMOTE REPEATER
DISPLAY

CROSS CUT SECTION
THROUGH
TRANSMITTER



STRAIN GAUGE
TO TRANSMITTER
CABLE
400108

Product No. : VARIOUS - SEE DRAWING

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
SHAFT POWER METER GENERAL OVERVIEW	#	108644	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg
3rd Angle Projection Do Not Scale Drawing

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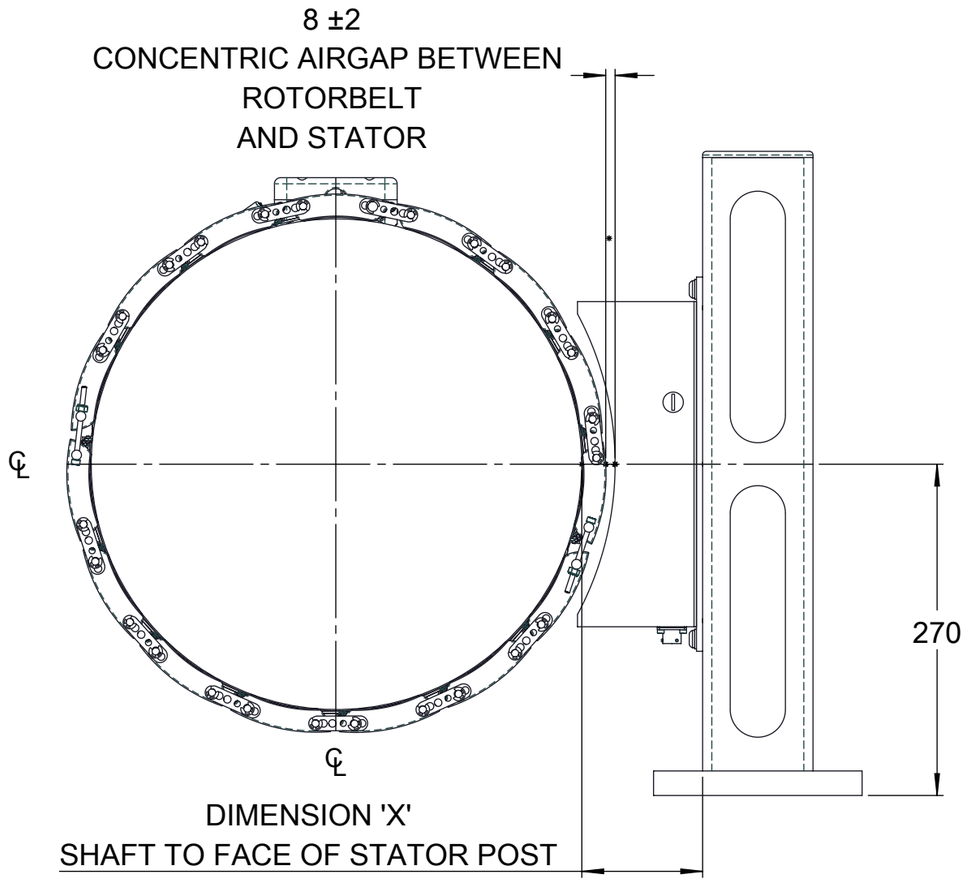

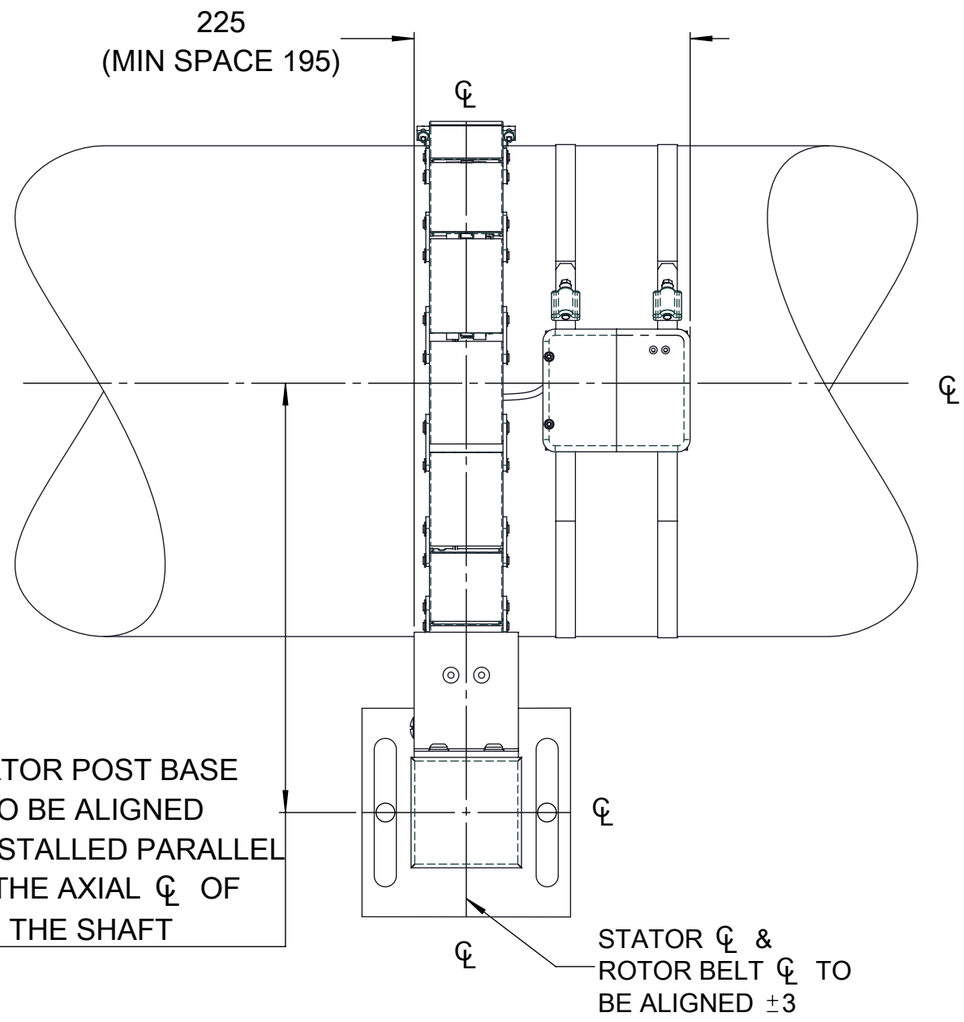

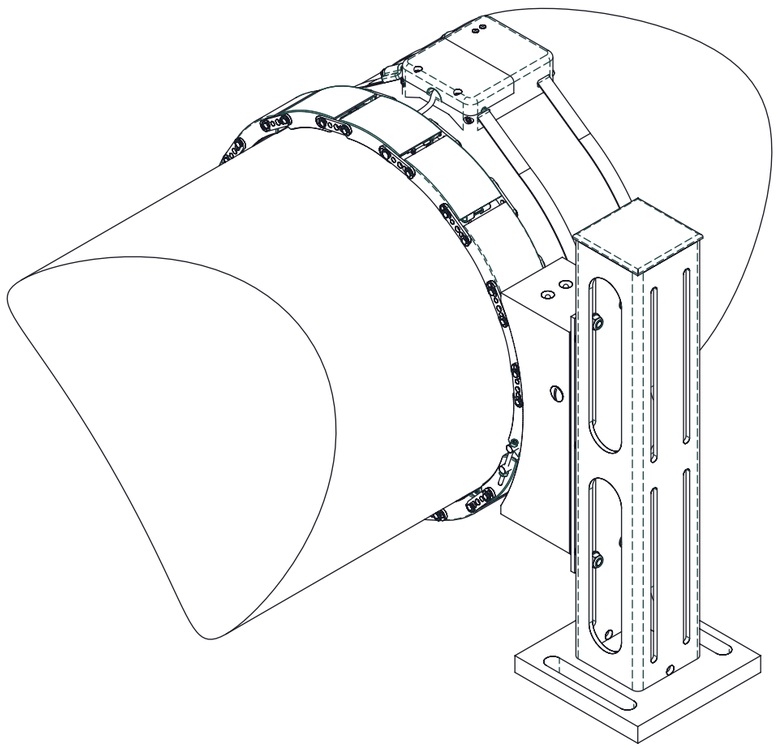

STATOR SIZE	DIMENSION 'X'
175-210	85
210-255	85
275-310	85
368-400	85
448-520	100
550-586	100
800-836	110

Product No. : VARIOUS - SEE DRAWING 108644

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
ALIGNMENT DETAILS	#	108640	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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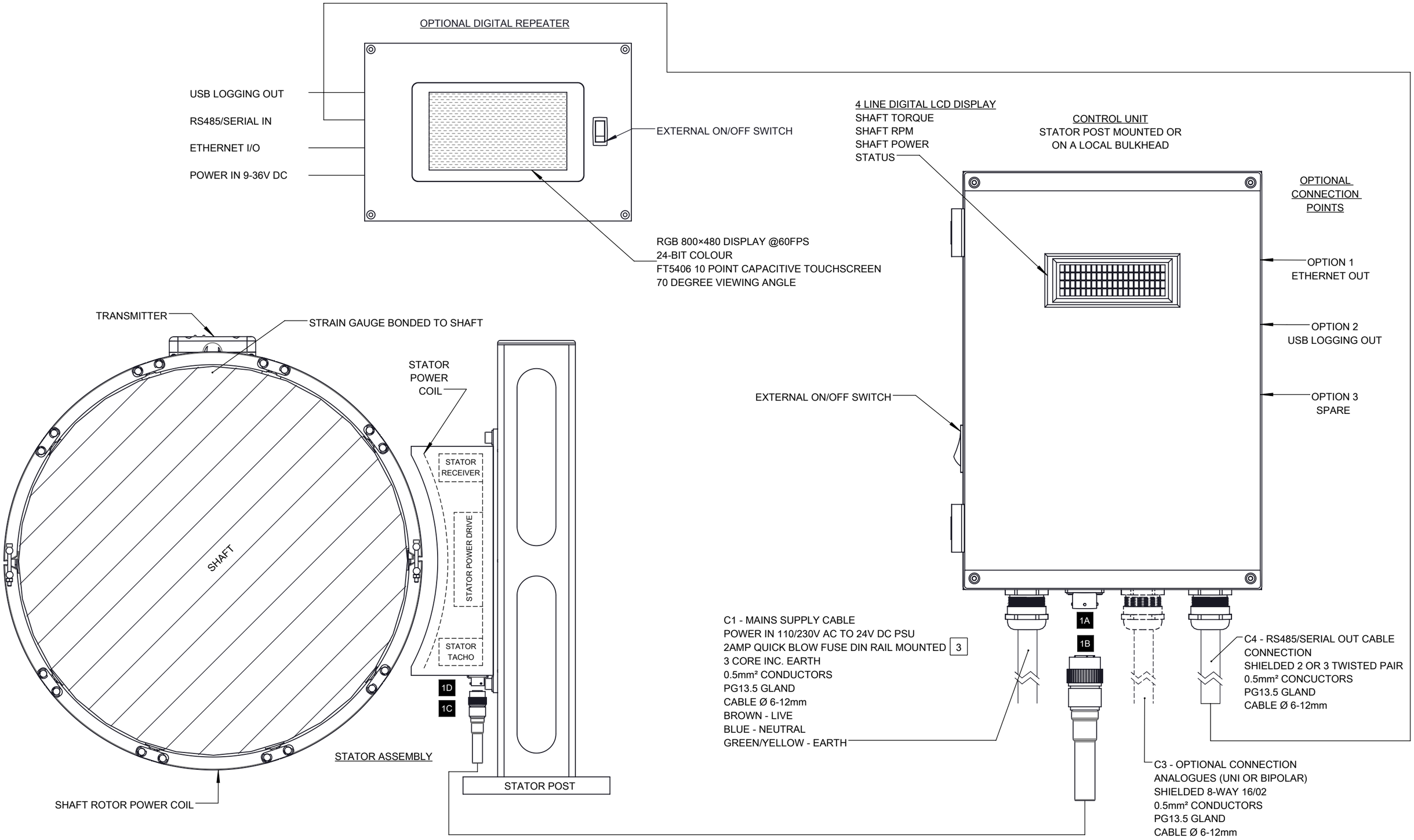

CONNECTORS	
NO.	DESCRIPTION
1A	62GB-12E12-10PN
1B	62GB-56T12-10SN
1C	62GB-56T12-10SN
1D	62GB-12E12-10PN

Product No. : VARIOUS - SEE DRAWING 108644

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
BLOCK DIAGRAM AND WIRING SCHEMATIC	#	108641	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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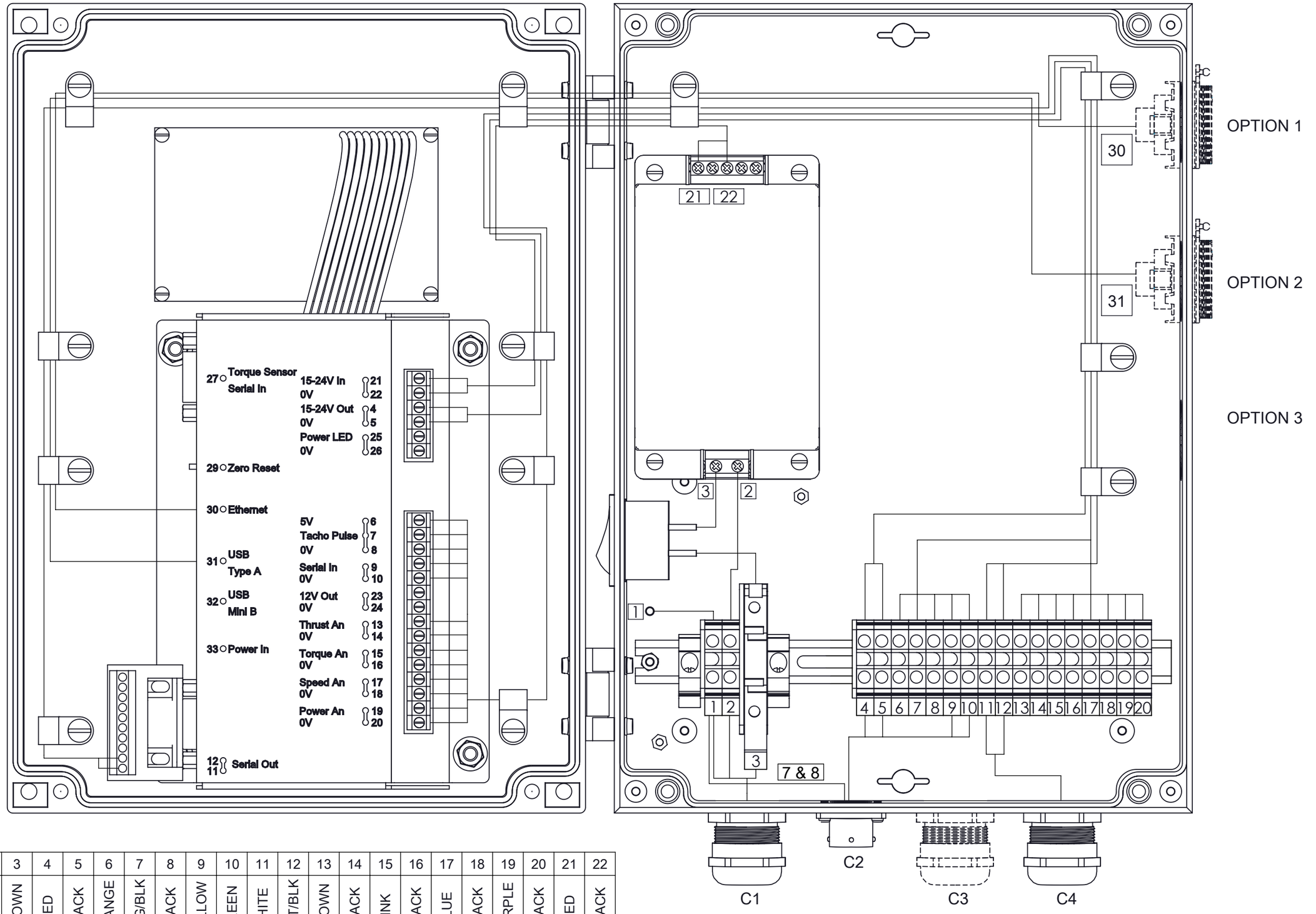

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
GRN/YEL	BLUE	BROWN	RED	BLACK	ORANGE	ORG/BLK	BLACK	YELLOW	GREEN	WHITE	WHT/BLK	BROWN	BLACK	PINK	BLACK	BLUE	BLACK	PURPLE	BLACK	RED	BLACK
EARTH	NEUTRAL	LIVE	24V OUT	0V	TACHO 5V	TACHO PULSE	TACHO 0V	RS485 A IN	RS485 B IN	RS485 A OUT	RS485 B OUT	THRUST AN	THRUST 0V	TORQUE AN	TORQUE 0V	SPEED AN	SPEED 0V	POWER AN	POWER 0V	24V IN	0V

Product No. : VARIOUS - SEE DRAWING 108644

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
BLOCK DIAGRAM AND WIRING SCHEMATIC	#	108641	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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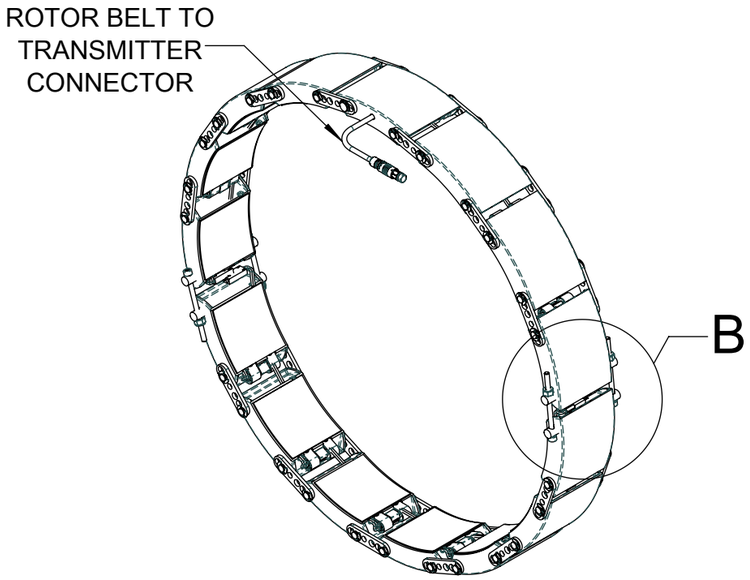
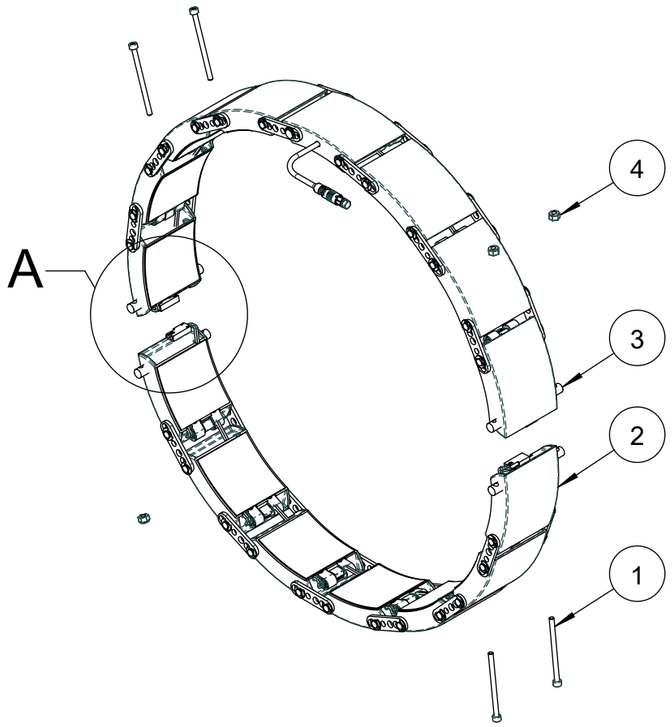
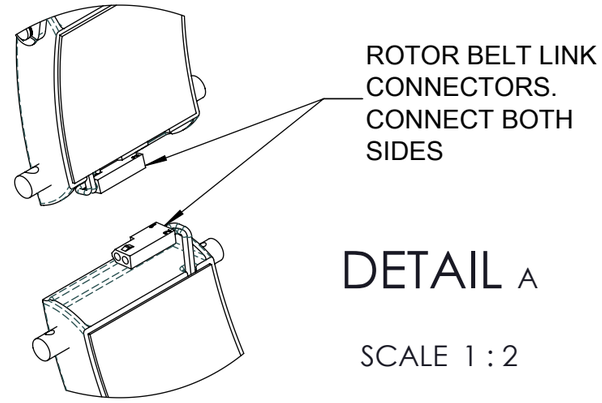
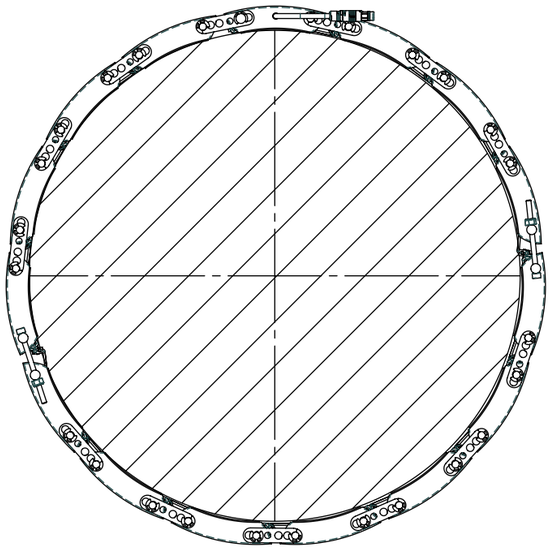


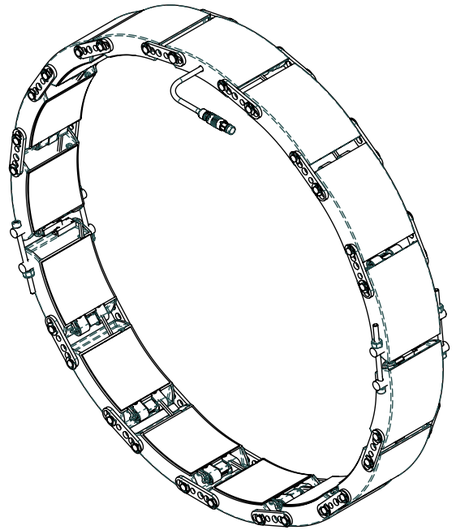


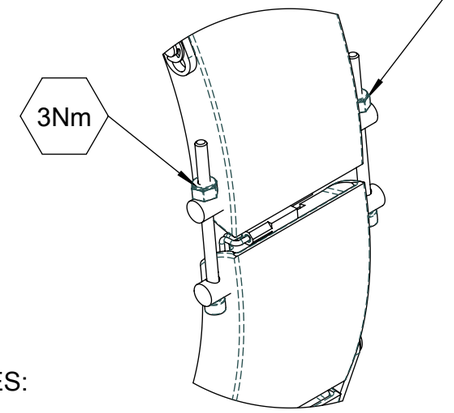


DETAIL A

SCALE 1 : 2







DETAIL B

SCALE 1 : 2

NOTES:

TOOLS REQUIRED:

1. 1 X 7mm SOCKET OR RING SPANNER
2. 1 X 3mm ALLEN/HEX SOCKET HEAD
3. TORQUE WRENCH

EVENLY TIGHTEN M4 BOLTS TO 3Nm. 4PL.

ROTOR BELT ASSEMBLY		
NO.	DESCRIPTION	QTY
1	M4 x 40mm HEX SKT CAP BOLT. GRADE 12:9	4
2	ROTOR BELT (NUMBER OF PADS DEPENDANT ON SHAFT SIZE)	1
3	ROTOR BELT ADJUSTER PIN	4
4	M4 NYLOC NUT. TYPE P. GRADE 10	4

Product No. : 400681-(ADD SHAFTØ)

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
ROTOR BELT ASSEMBLY	#	108643	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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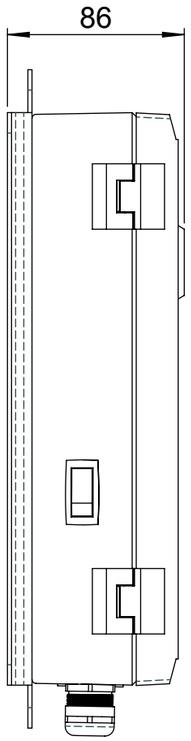
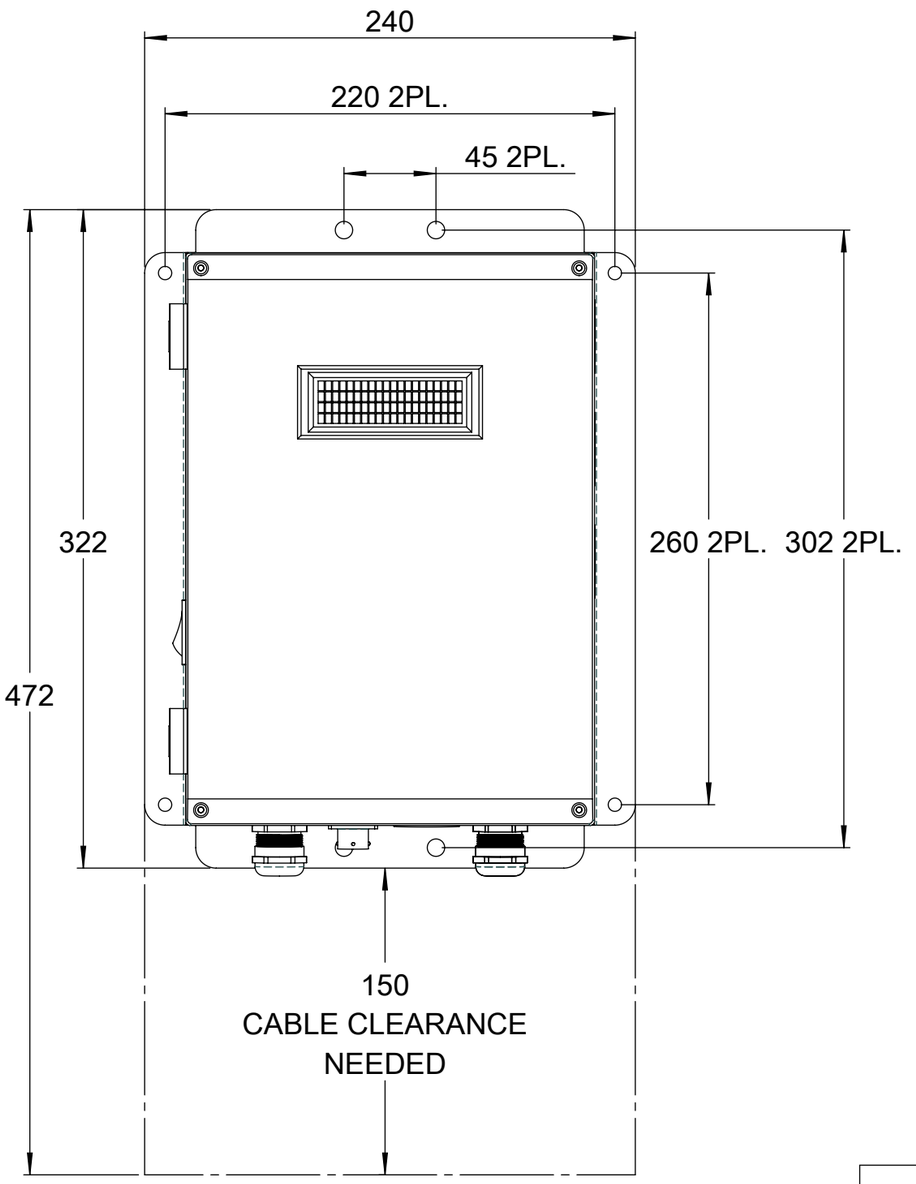
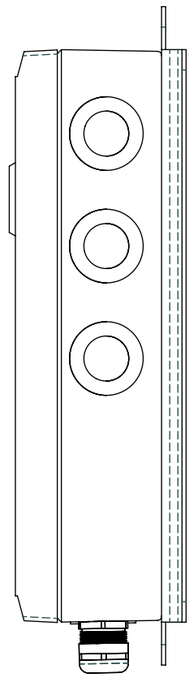






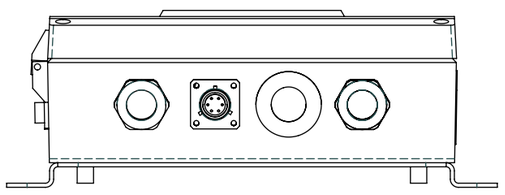
OPTION 1

OPTION 2

OPTION 3

BLANKING PLUGS AS PER STANDARD

CONNECTION POINT	DESCRIPTION
C1	PG13.5 GLAND 110/230V AC POWER IN
C2	62GB STATOR CABLE CONNECTION
C3	OPTIONAL CONNECTION POINT. ANALOGUES OUT. BLANKING PLUG AS PER STANDARD
C4	PG13.5 GLAND RS485/SERIAL OUT



OPTIONAL CONNECTION POINTS	DESCRIPTION
OPTION 1	ETHERNET
OPTION 2	USB LOGGING
OPTION 3	SPARE

Product No. : 400711

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
CONTROL UNIT	#	108642	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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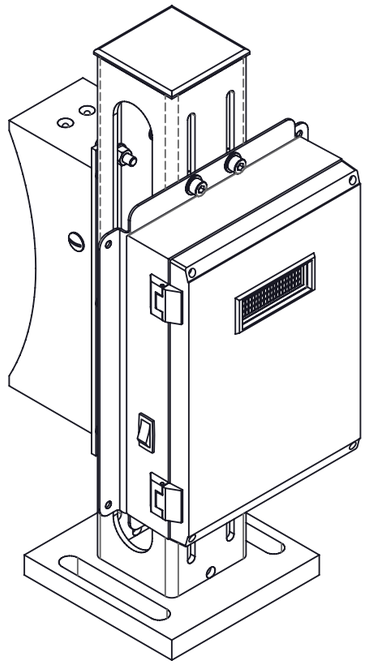
POST MOUNT



NOTES:

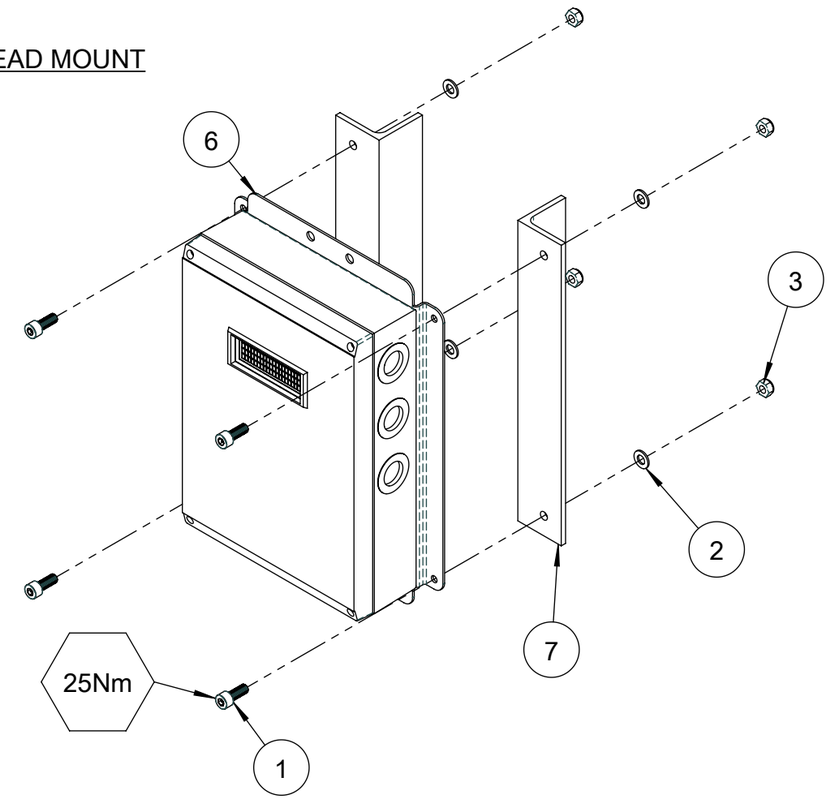
TOOLS REQUIRED

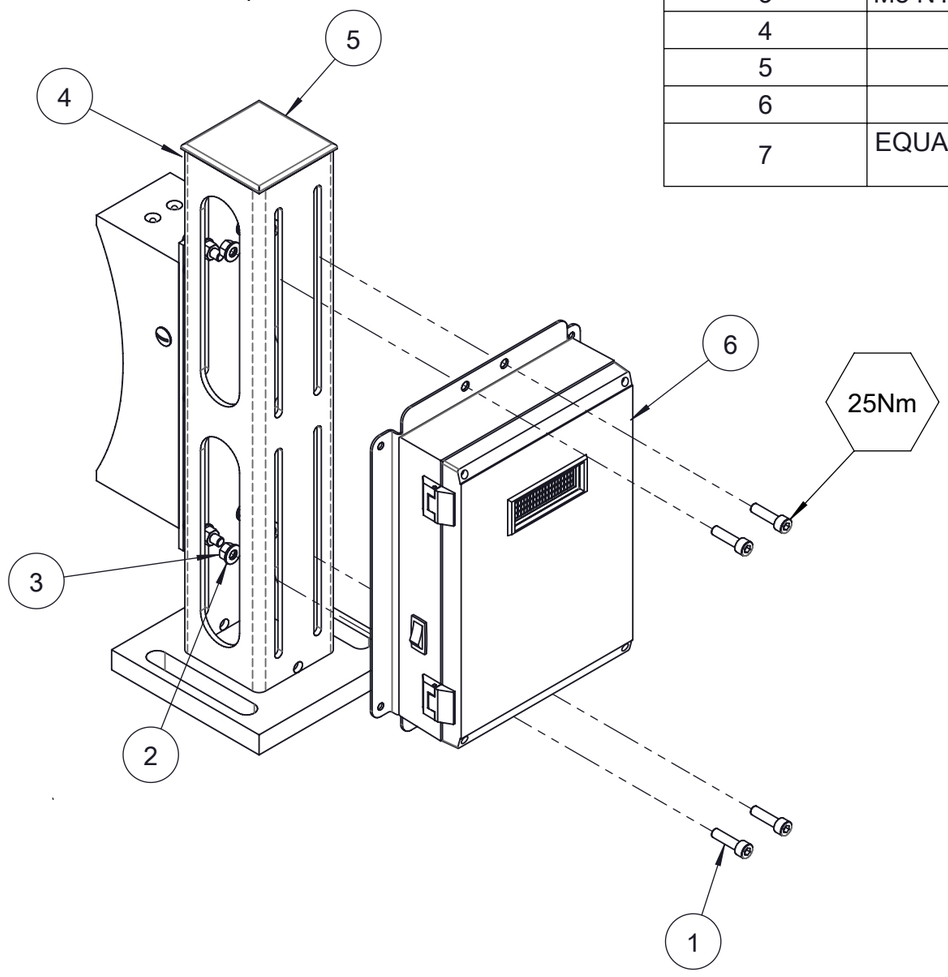
1 X 13mm OR 1/2" RING SPANNER
1 X 6mm HEX HEAD SOCKET
1 X TORQUE WRENCH

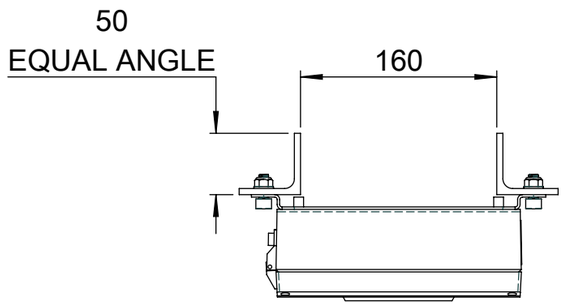
TIGHTEN EACH BOLT TO 25Nm ONCE ALIGNED AND IN POSITION

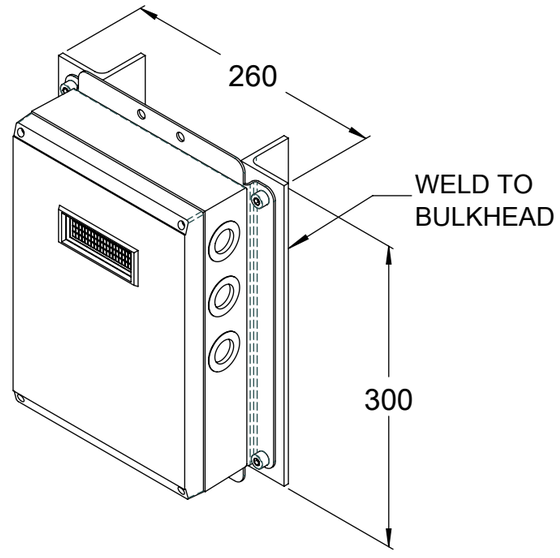
CONTROL UNIT MOUNTING ASSEMBLY		
NO.	DESCRIPTION	QTY.
1	M8 X 20mm HEX SKT BUTTON HEAD GRADE 12:9	4
2	M8 X 16mm WASHER	4
3	M8 NYLOC NUT TYPE P GRADE 10	4
4	STATOR POST	1
5	STATOR POST CAP	1
6	CONTROL UNIT	1
7	EQUAL ANGLE 50 X 50 X 300 (NOT SUPPLIED BY DATUM)	2

BULKHEAD MOUNT









Product No. : 400711

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
CONTROL UNIT	#	108642	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg
3rd Angle Projection Do Not Scale Drawing

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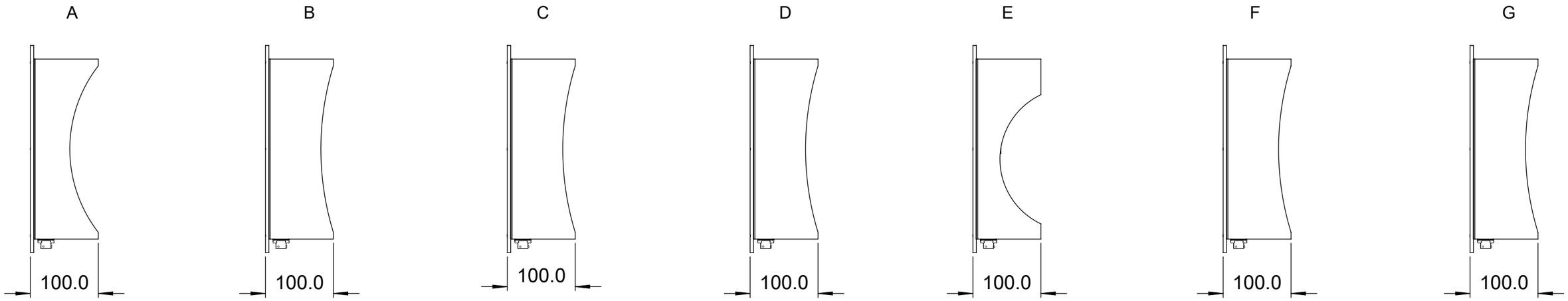
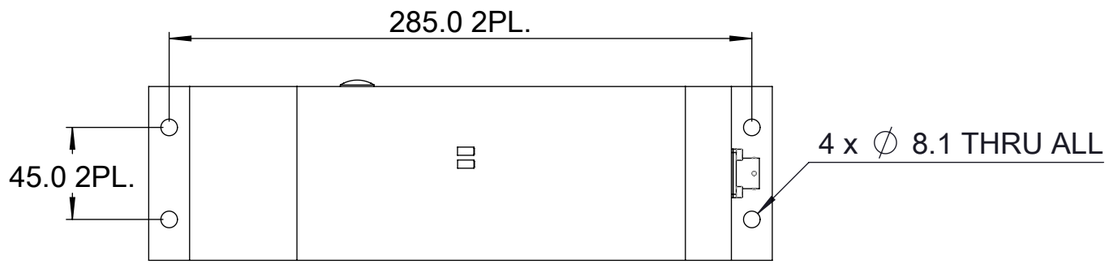
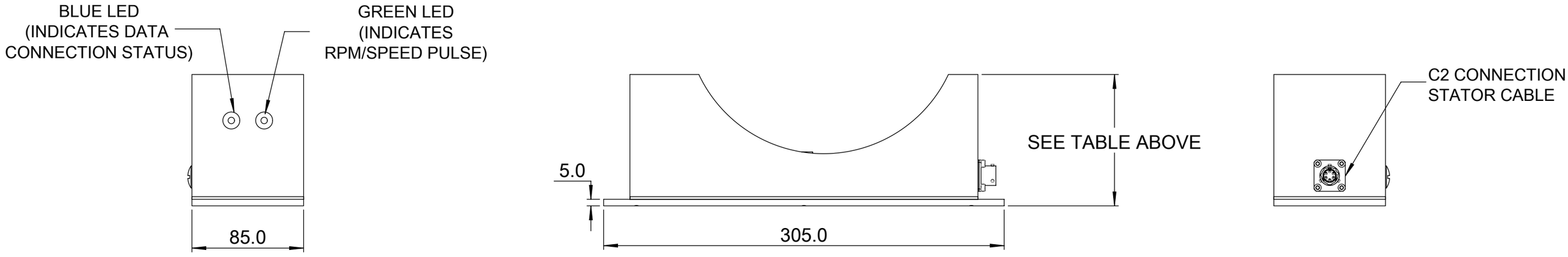
STATOR SIZES



A	B	C	D	E	F	G
140-154mm	155-199mm	200-254mm	255-344mm	345-464mm	465-529mm	530-780mm

NOTE: VARIANT SIZING CORRESPONDS TO SHAFT DIAMETER





Product No. : 400203-(ADD STATOR SIZE)

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
STATOR / STATOR POST	#	108646	B	TJM	28/08/2018	CN10829-5	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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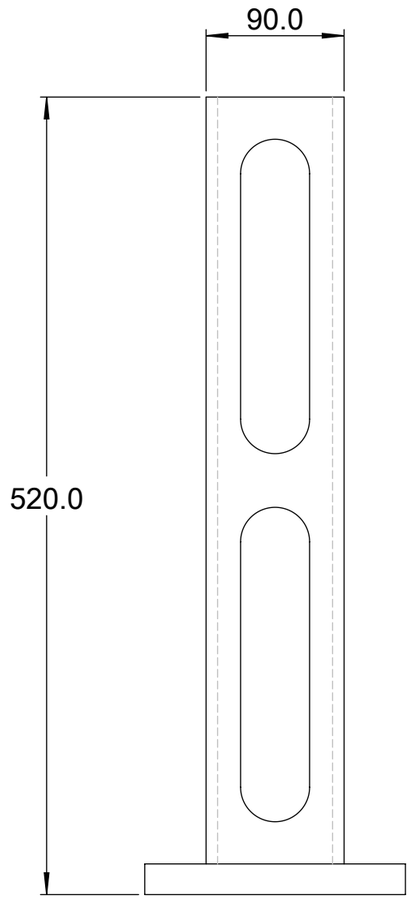

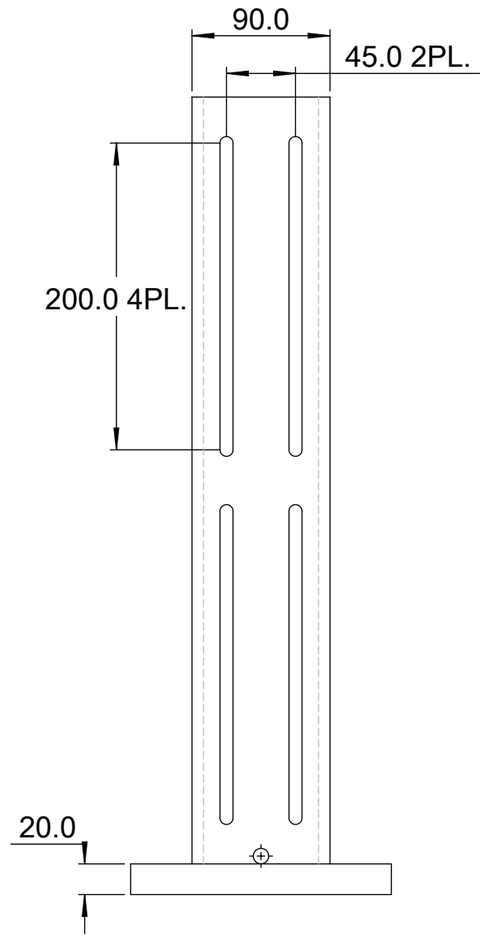

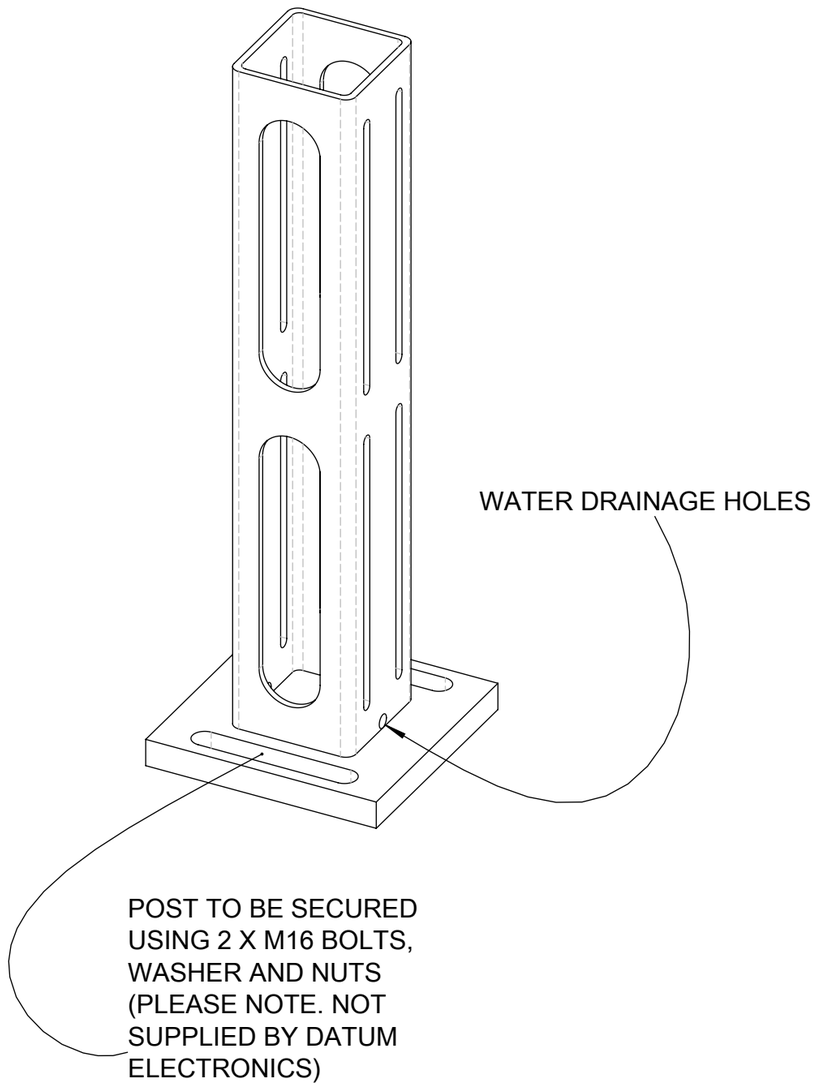

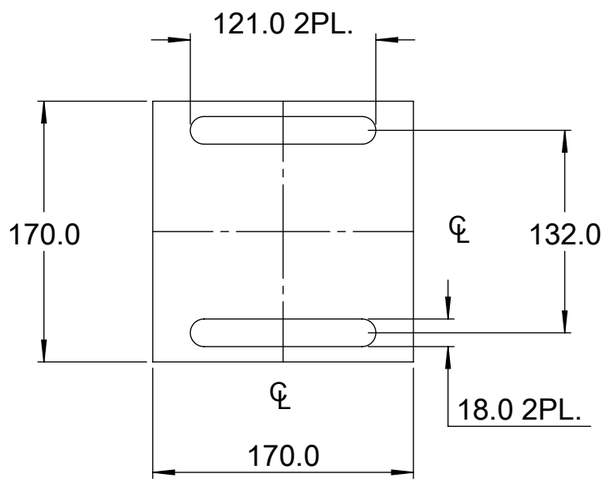

Product No. : 400204

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
STATOR / STATOR POST	#	108646	B	TJM	28/08/2018	CN10829-5	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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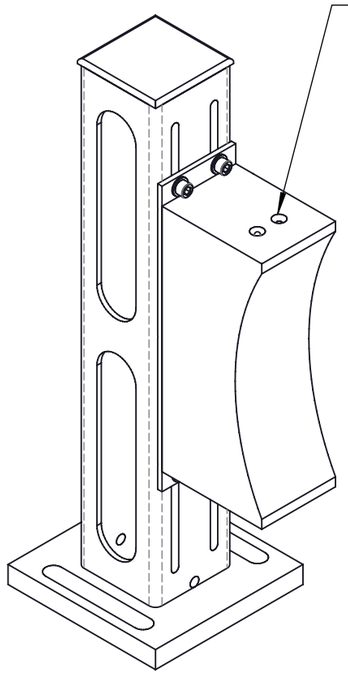

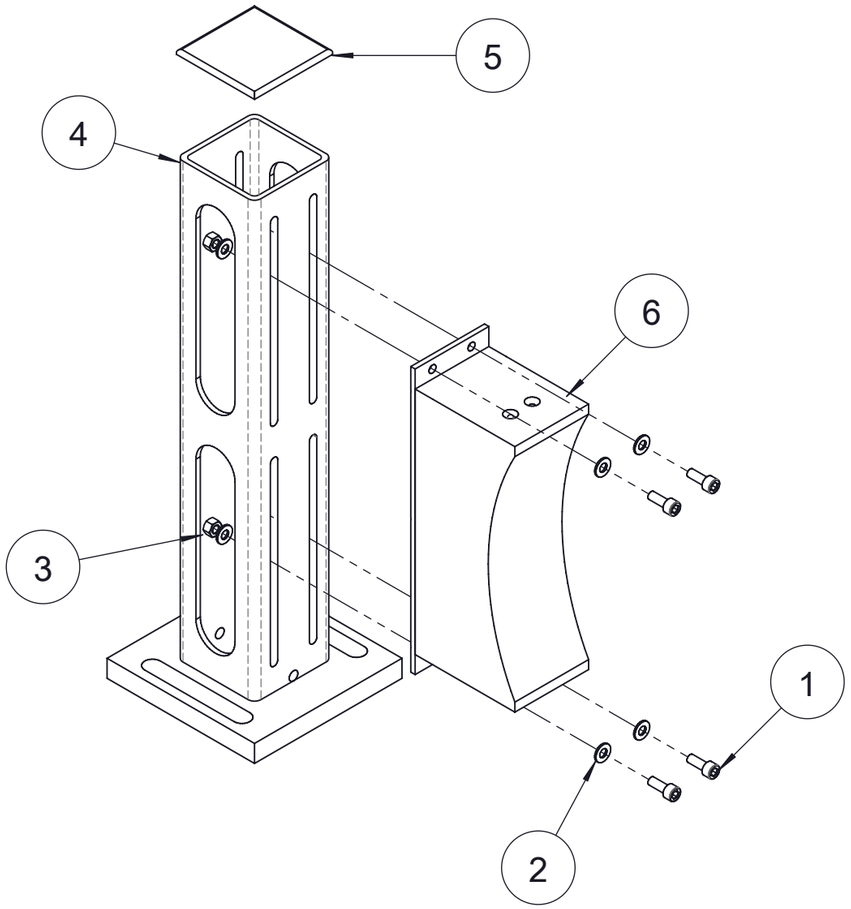

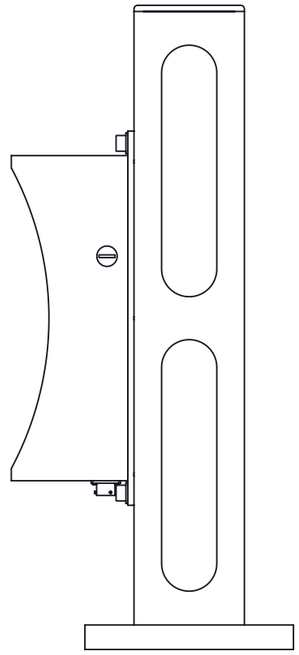

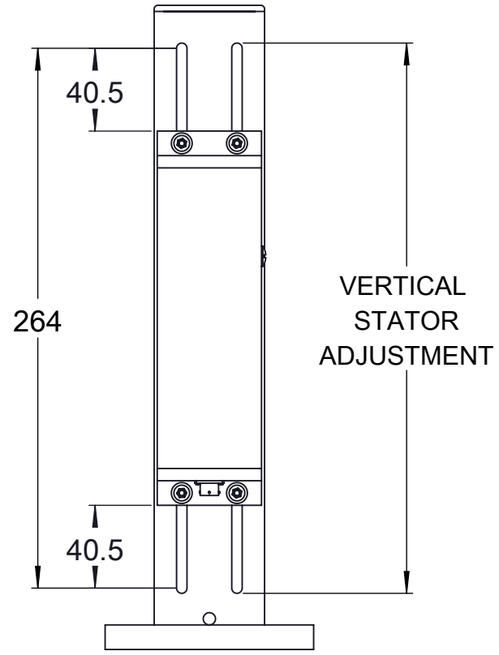

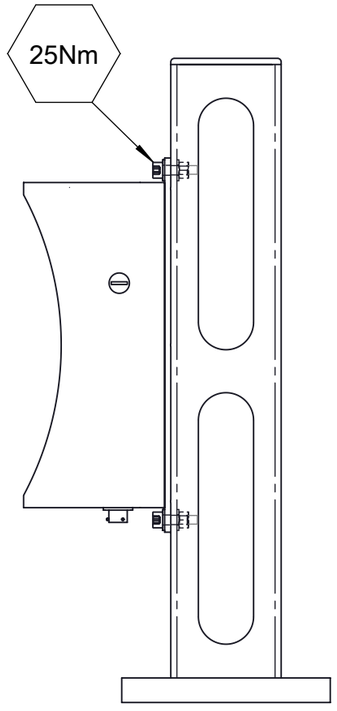

NOTES:

TOOLS REQUIRED

1 X 13mm OR 1/2" RING SPANNER
1 X 6mm HEX HEAD SOCKET
1 X TORQUE WRENCH

TIGHTEN EACH BOLT TO 25Nm ONCE ALIGNED AND IN POSITION

STATOR AND STATOR POST ASSEMBLY		
NO.	DESCRIPTION	QTY.
1	M8 X 20mm HEX SKT CAP BOLT GRADE 12:9	4
2	M8 X 16mm WASHER	8
3	M8 NYLOC NUT TYPE P GRADE 10	4
4	STATOR POST	1
5	STATOR POST CAP	1
6	STATOR	1

SEE THROUGH SECTION OF POST WITH BOLTS TIGHTENED

Product No. : 400203 & 400204

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
STATOR / STATOR POST	#	108646	B	TJM	28/08/2018	CN10829-5	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg
3rd Angle Projection Do Not Scale Drawing

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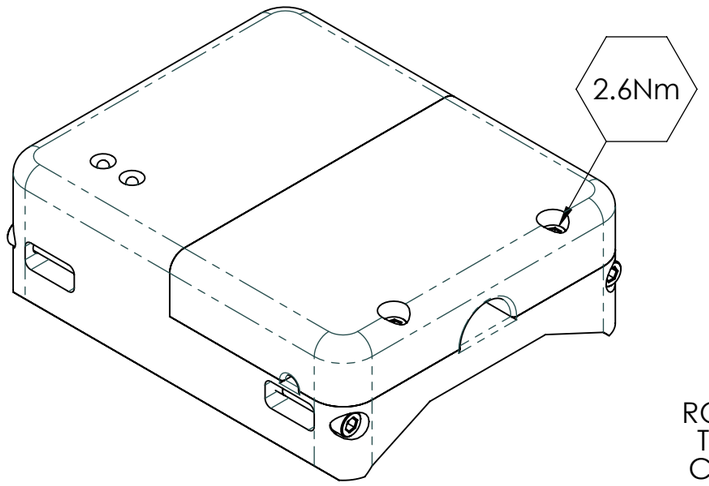
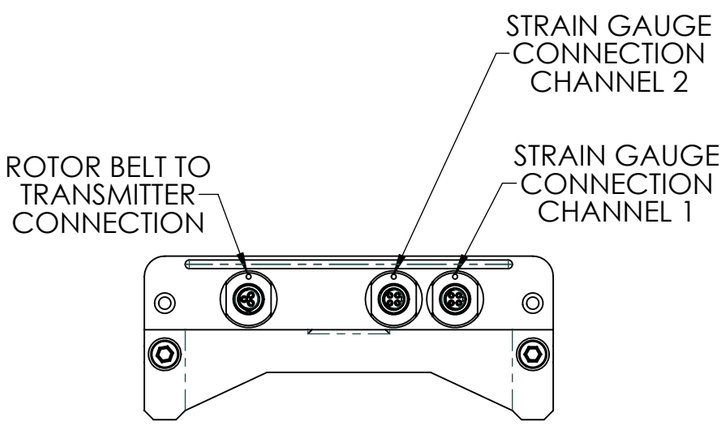
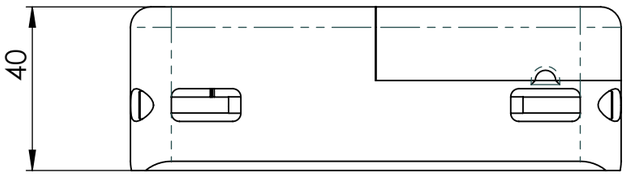
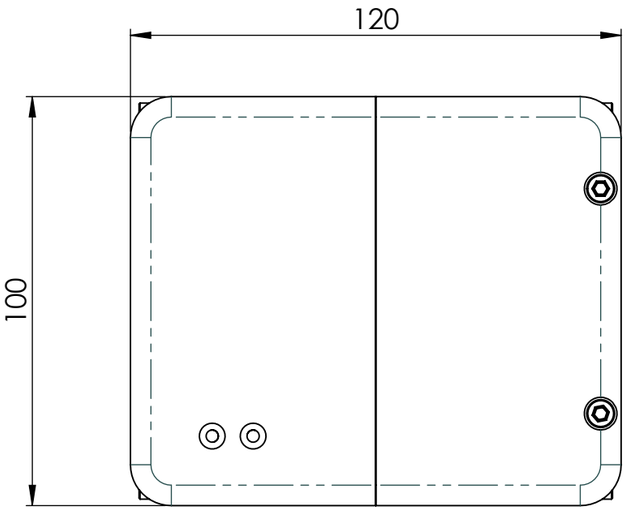
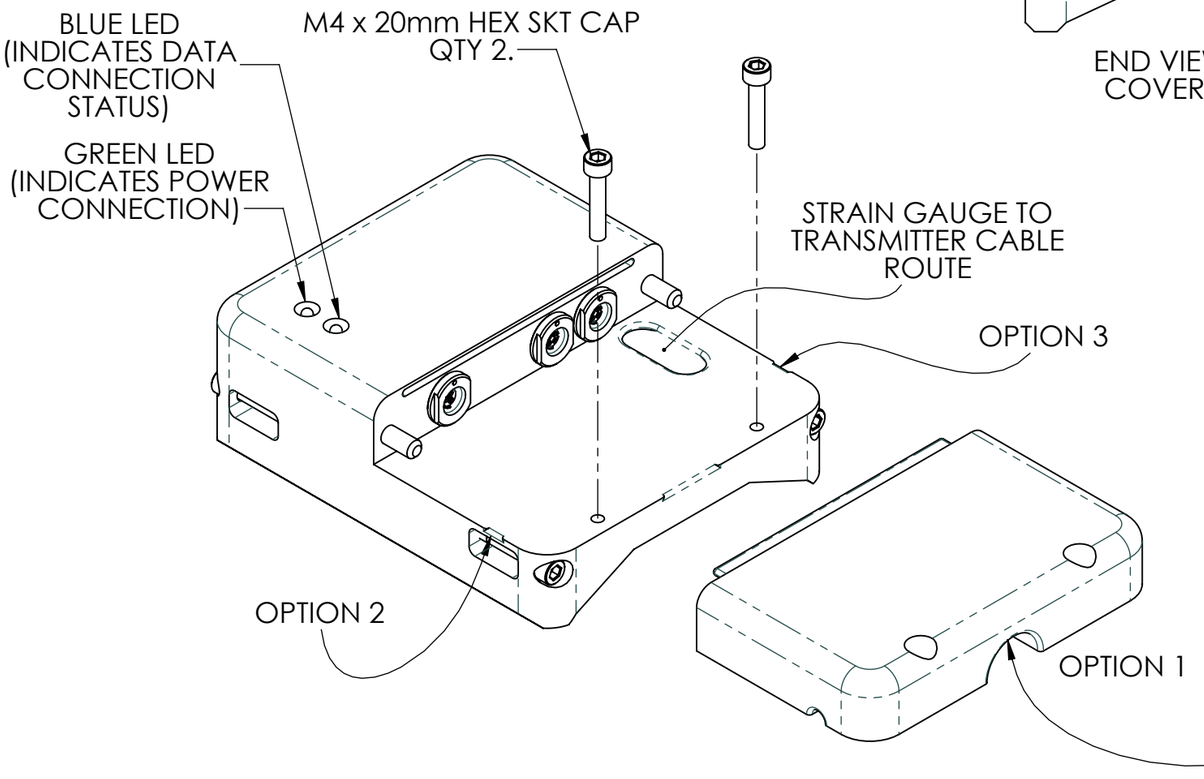




END VIEW WITH TOP COVER REMOVED







ROTOR BELT TO TRANSMITTER CONNECTION CABLE ROUTE.
3 OPTIONS AVAILABLE DEPENDANT ON AVAILABLE SPACE.
OPTION 1 IS STANDARD. OPTIONS 2 & 3 CAN BE USED IF SPACE IS LIMITED.

Product No. : 400750

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
TRANSMITTER	#	108647	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg
3rd Angle Projection Do Not Scale Drawing

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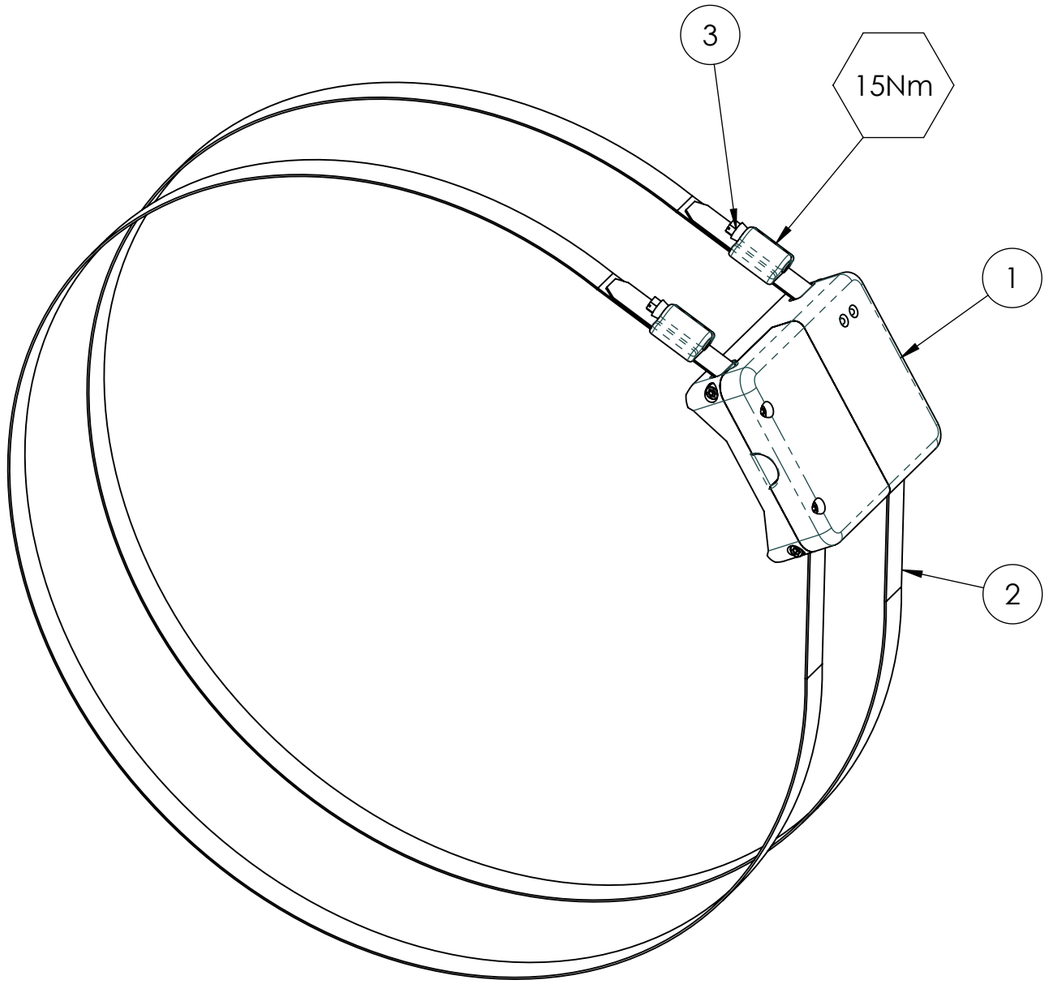
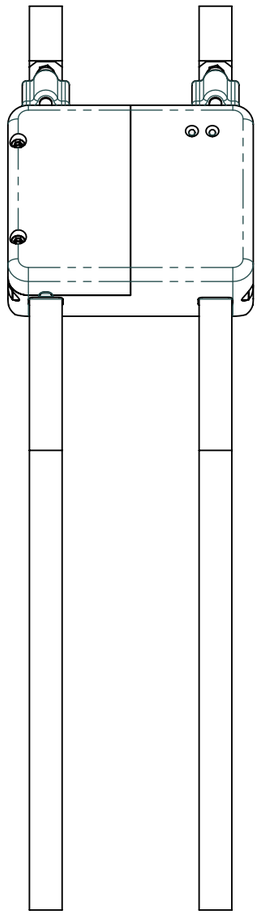
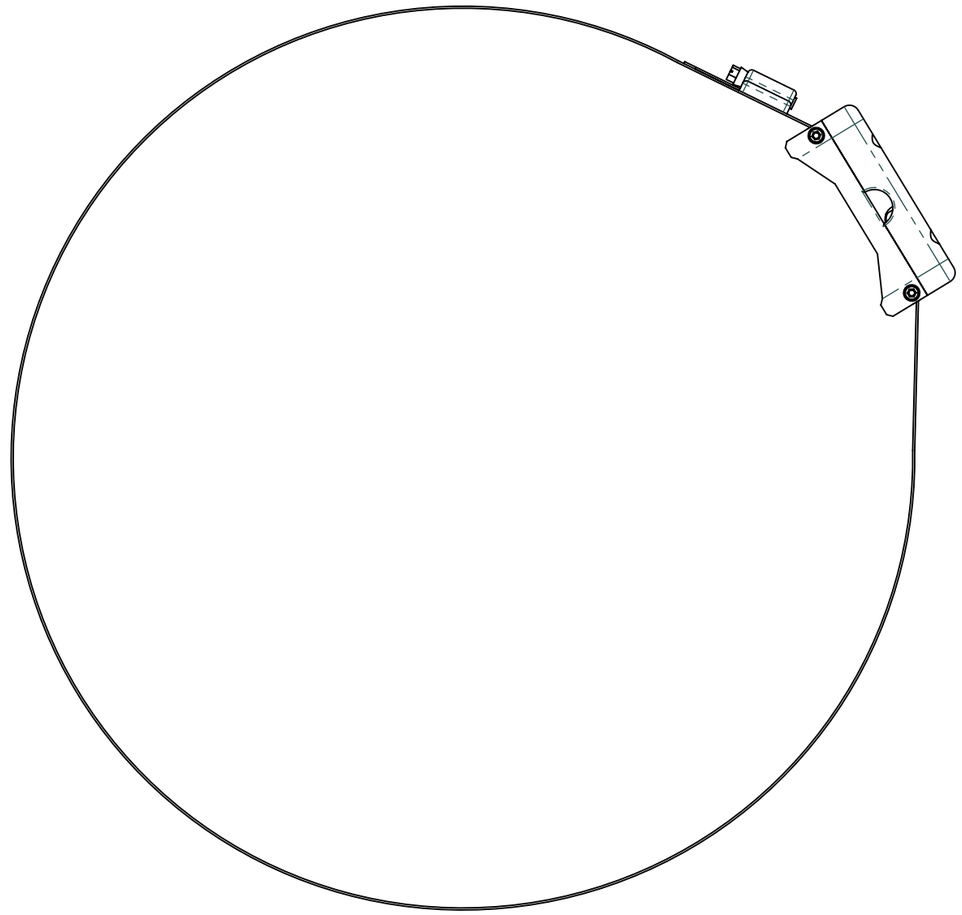
NOTE:

1. INSTALL BOTH BANDS ONTO THE TRANSMITTER BEFORE PLACING ONTO THE SHAFT
2. BANDS ARE TO BE TIGHTENED TO A TORQUE RATING OF 15Nm
3. TOOLS REQUIRED - 8mm SOCKET AND TORQUE WRENCH

TRANSMITTER ASSEMBLY		
NO.	DESCRIPTION	QTY.
1	TRANSMITTER	1
2	HEAVY DUTY S/S 16mm BANDING	2
3	HI-TORQUE S/S 16mm HOUSING CONNECTOR	2







Product No. : 400750

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
TRANSMITTER	#	108647	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg

3rd Angle Projection Do Not Scale Drawing

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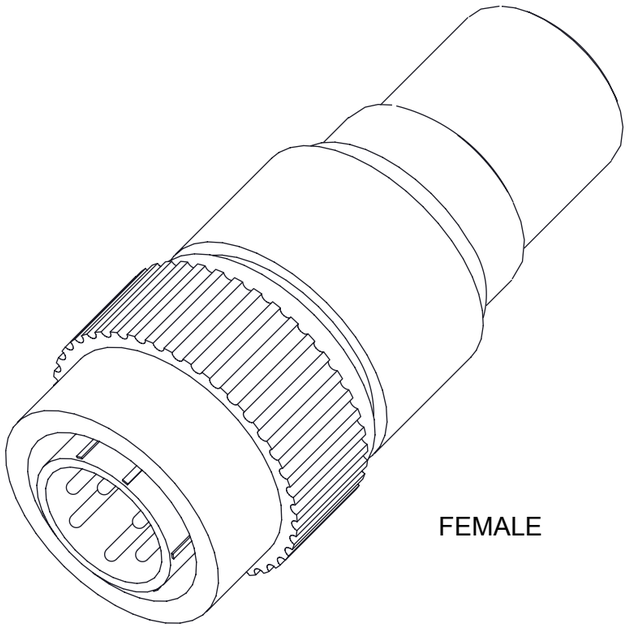
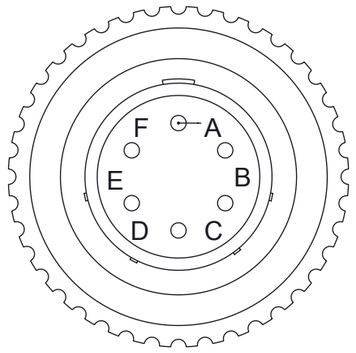
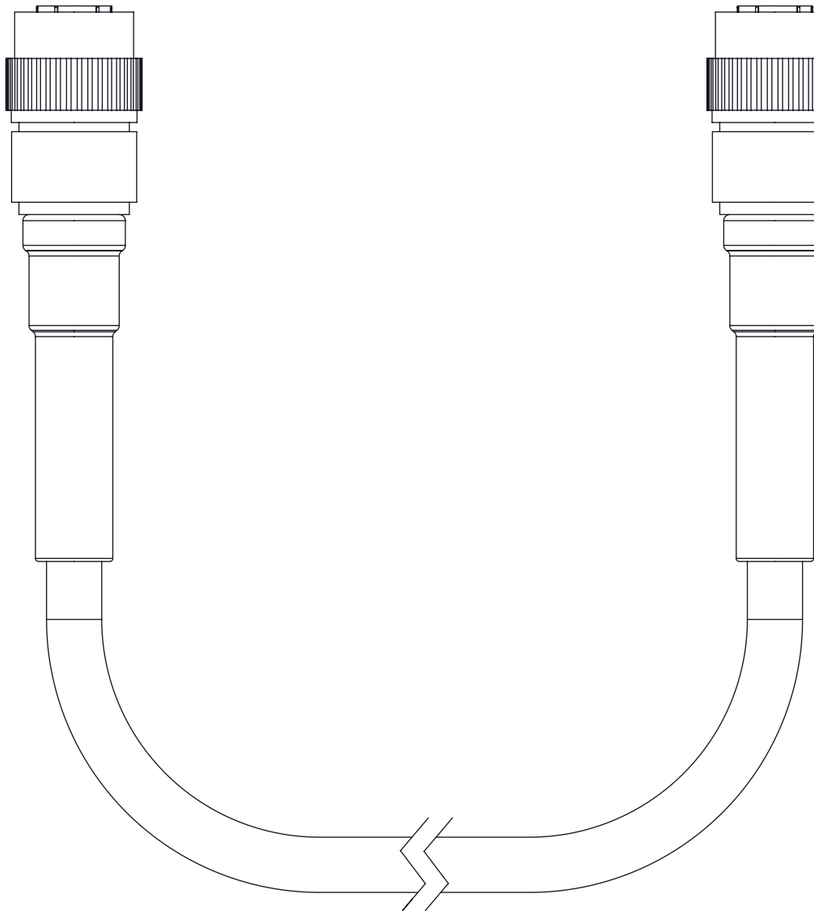
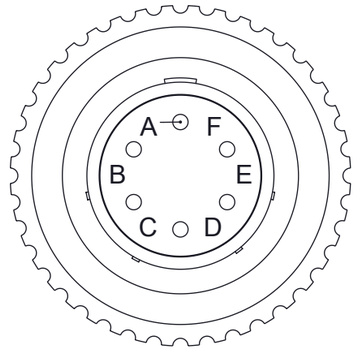


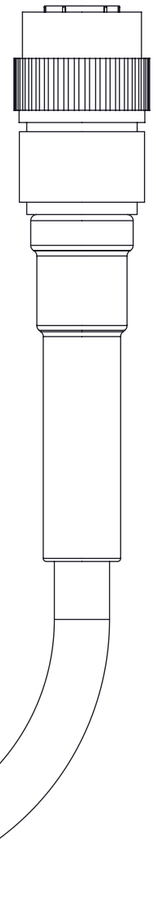
FEMALE

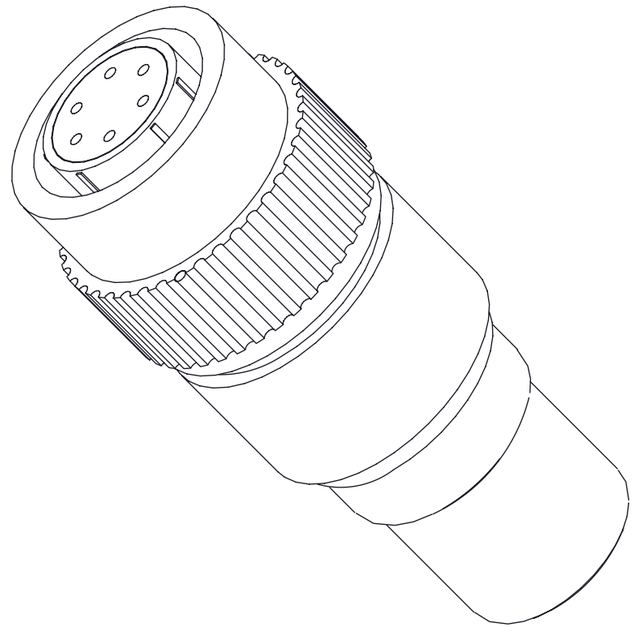






MALE





PIN	STATOR CABLE WIRE COLOUR	DESCRIPTION
A - A	RED	+24V
B - B	GREEN	TACHO 0V
C - C	YELLOW	TACHO PULSE
D - D	BLUE	0V
E - E	WHITE	RS485 A
F - F	BLACK	RS485 B

NOTES:

CABLE LENGTHS
STATOR POST MOUNTED - 1 METRE
BULK HEAD MOUNTED - 15 METRE

CONNECTORS
CONNECTORS ARE COMPLIANT TO MIL-C-26482E

WIRE SPEC
8-CORE SCREEN 16/02 8 AMP

Product No. : 400223

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
STATOR CABLE	#	108645	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg
3rd Angle Projection Do Not Scale Drawing

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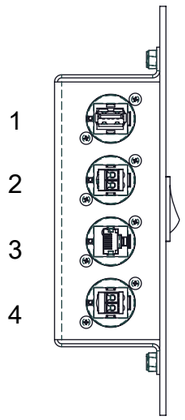
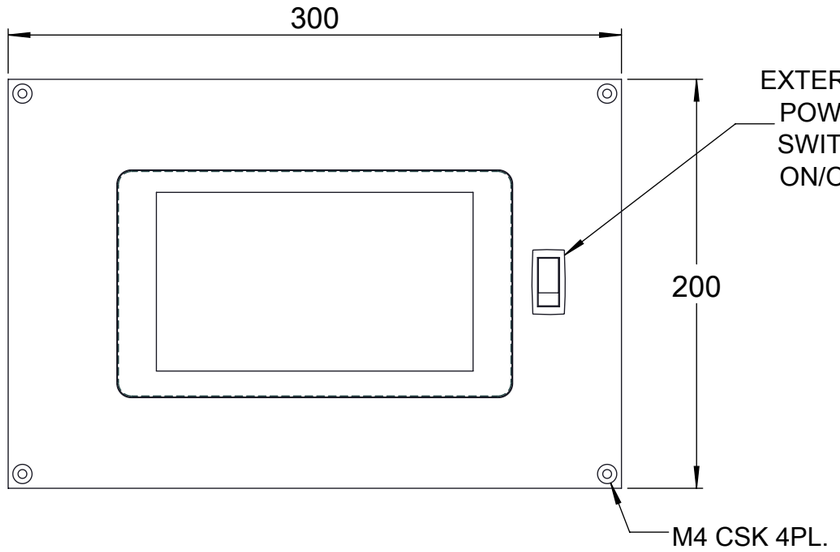
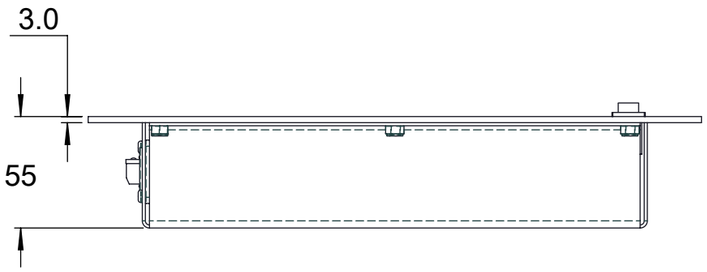
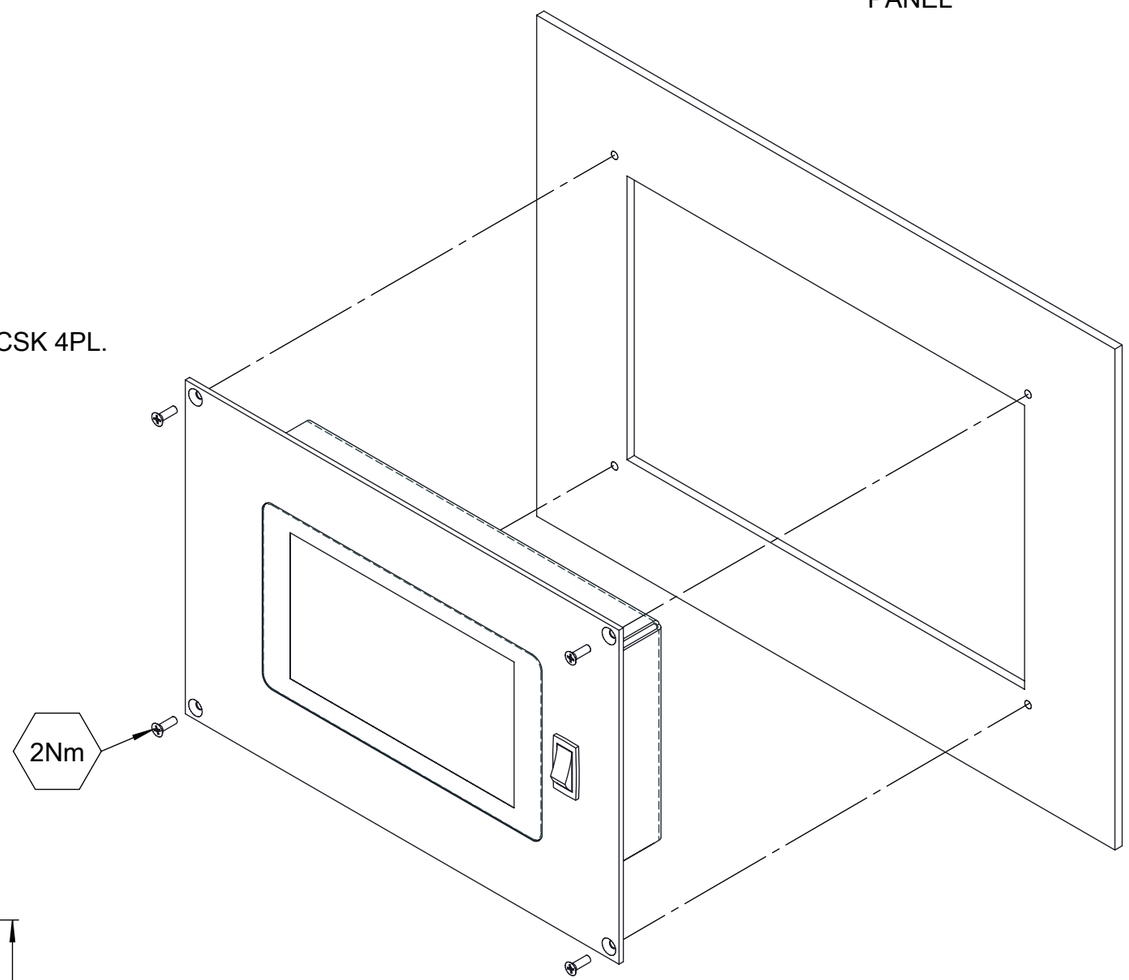


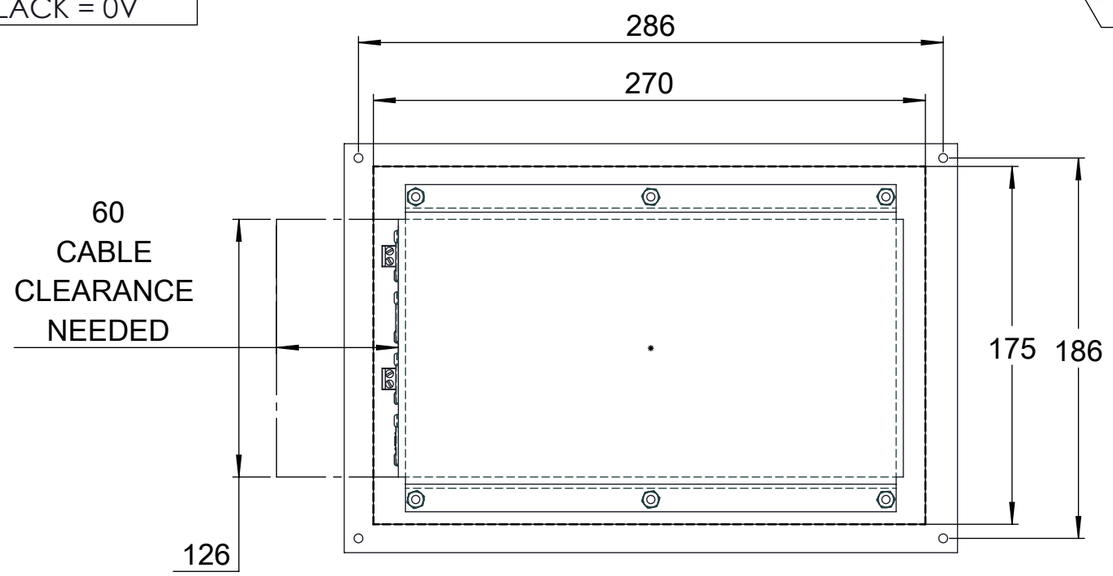


DIGITAL REPEATER FRONT MOUNTED
CUT APERTURE TO 270 X 175
TAP 4 X M4 HOLES INTO MOUNTING
PANEL



CONNECTION POINTS	
1	USB
2	RS485/SERIAL IN TDX = RED RXD = BLACK
3	ETHERNET I/O
4	POWER SUPPLY 9-36VDC RED = +VE BLACK = 0V





RGB 800x480 DISPLAY @60FPS
24-BIT COLOUR
FT5406 10 POINT CAPACITIVE TOUCH SCREEN
70 DEGREE VIEWING ANGLE

Product No. : 400760

Product Description	Weight	Drawing No.	Rev	Drawn	Date	CN Number	CHK	APP
ECR/DIGITAL REPEATER DISPLAY	#	108648	A	TJM	07/02/2018	CN10829-1	JL	MG

Sheet: 1 of 1 Dimensions are in mm Weight in Kg
3rd Angle Projection Do Not Scale Drawing

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