

MDS-SBH- - - X

GEARBOX MODEL

MPG-118 _____

MRG-118 _____

RATIO: _____

FOR DIRECT DRIVE OPTION WITH MMK (NO GEARBOX) CHECK HERE: _____

CENTER TO CENTER DISTANCE (mm)

CENTER TO CENTER IN INCREMENTS OF 25mm
LIMITS: 500mm-2950mm

ENTER X-AXIS TRAVEL

TRAVEL IN INCREMENTS OF 25mm
TRAVEL LIMITS: 150mm-5775mm

IF TRAVEL IS OUTSIDE LIMITS LISTED, CONTACT MACRON

MOTOR INFORMATION

MANUFACTURER: _____

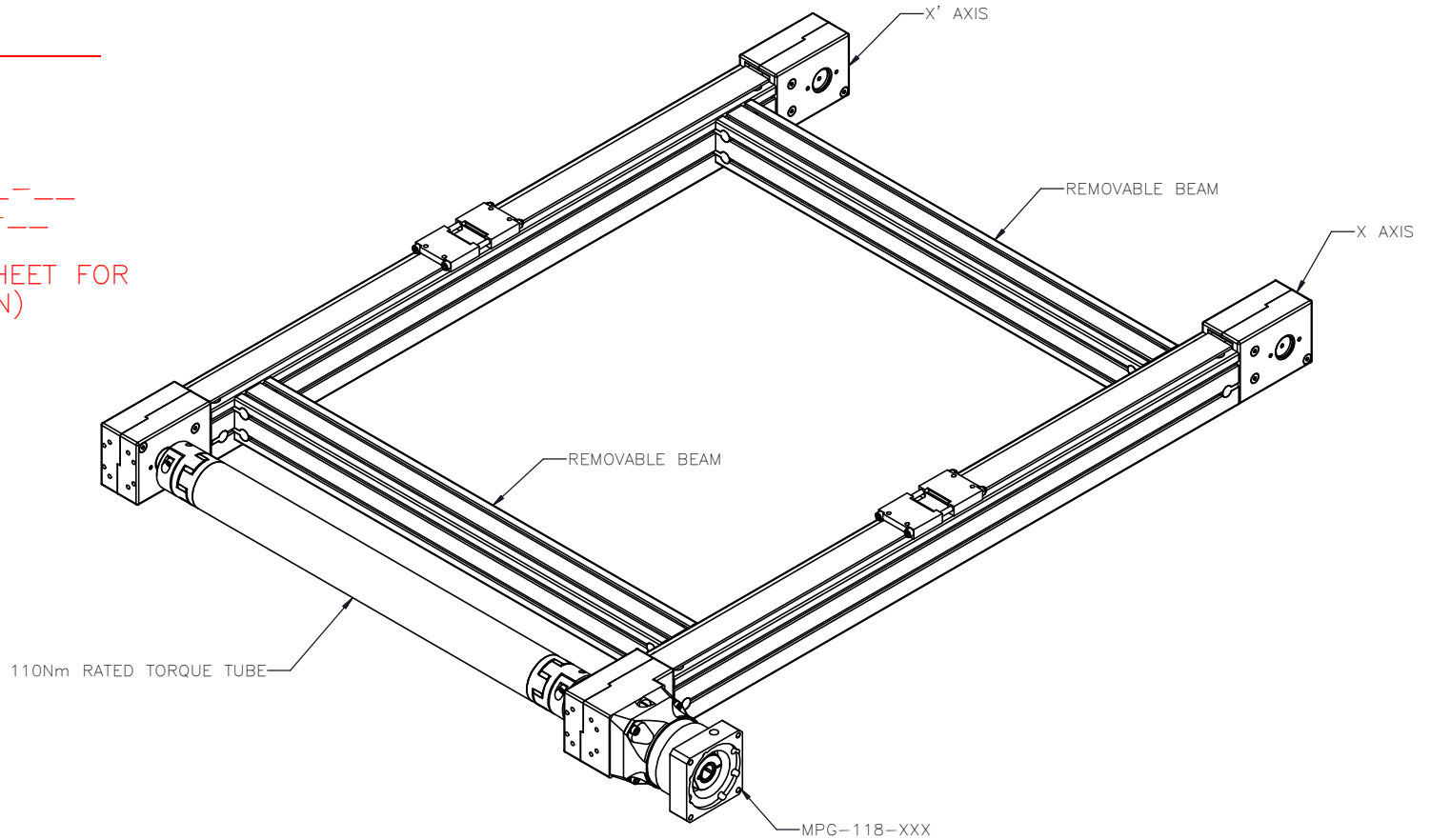
MODEL: _____

SENSOR INFORMATION X-AXIS:

HOME-QTY _____ 244-____-____-____-____

EOT-QTY _____ 244-____-____-____-____

(SEE T-SLOT SENSOR KIT SHEET FOR PART NUMBER CONFIGURATION)




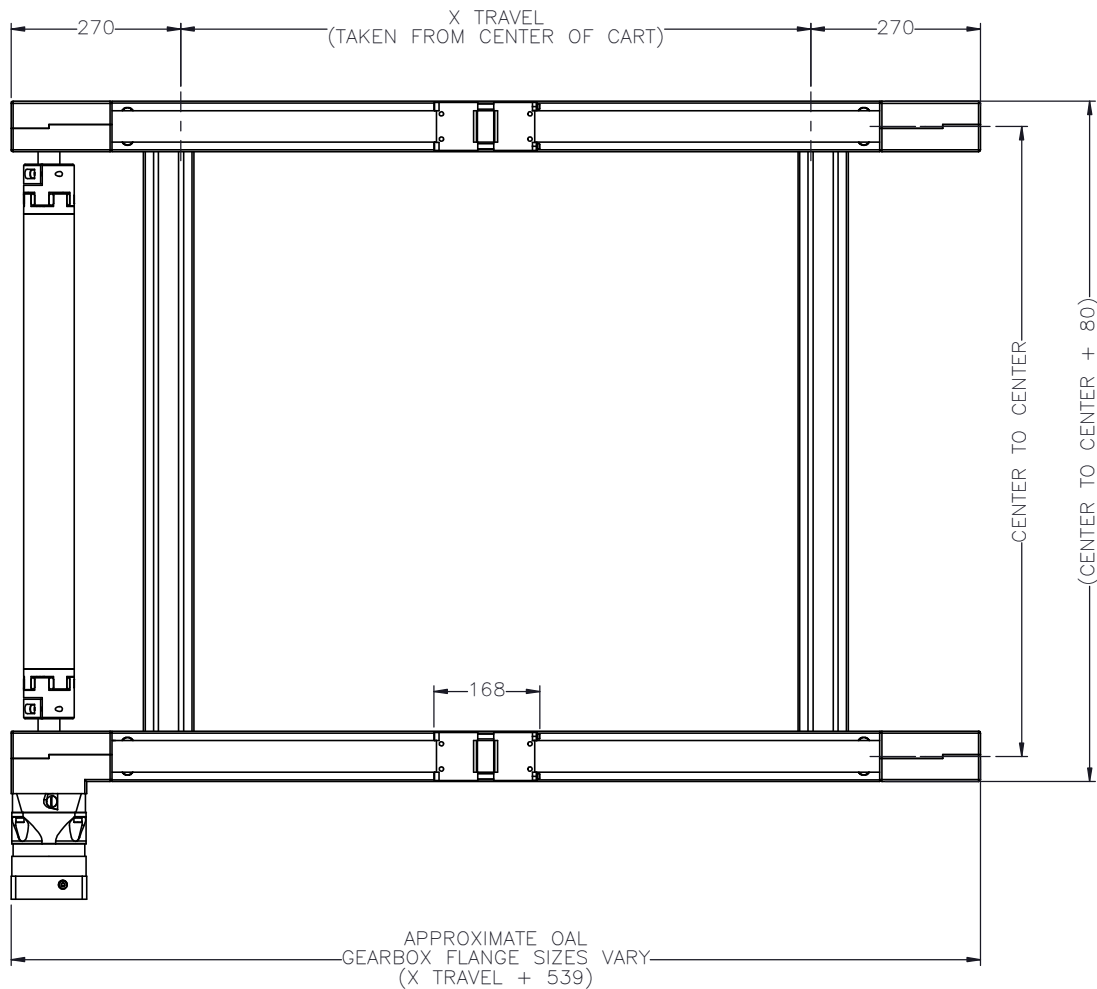
APPROVED: _____

SIGN & PRINT

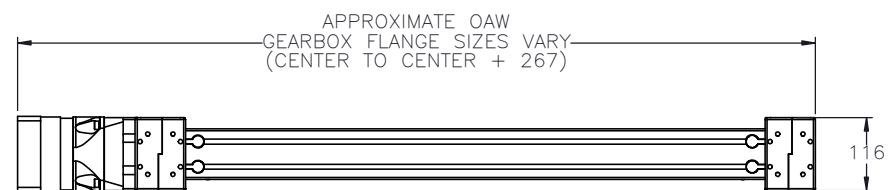
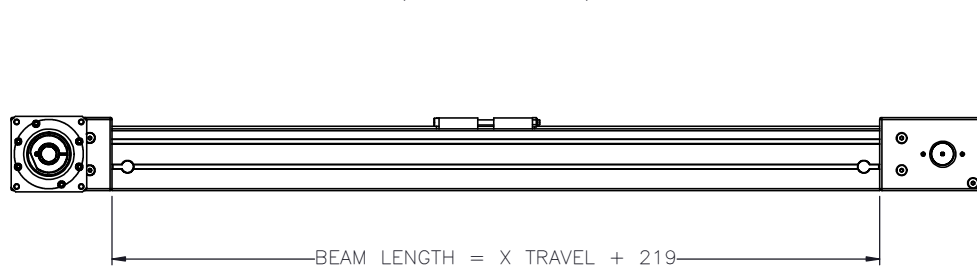
DATE: _____


PO:REFERENCE#: _____

 MACRON DYNAMICS INC	DRAWN BY: AW	DATE: 8/7/2023	MATERIAL:	TITLE: MACRON DUAL SBH SYSTEM
	CHECKED BY: --	DATE: DD/MM/YYYY		
	LAST SAVED BY: awong	DATE: 8/9/2023		
	<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES, UNLESS NOTED OTHERWISE:</small> .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'			FINISH:
SURFACE FINISH <input checked="" type="checkbox"/>			SCALE: 1:1 SHEET SIZE: C	
<small>THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING, OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL.</small>			SHEET: 1 OF 6 PART NUMBER: MDS-SBH-X-X-X	
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION			REV:	



GANTRY FOOTPRINT

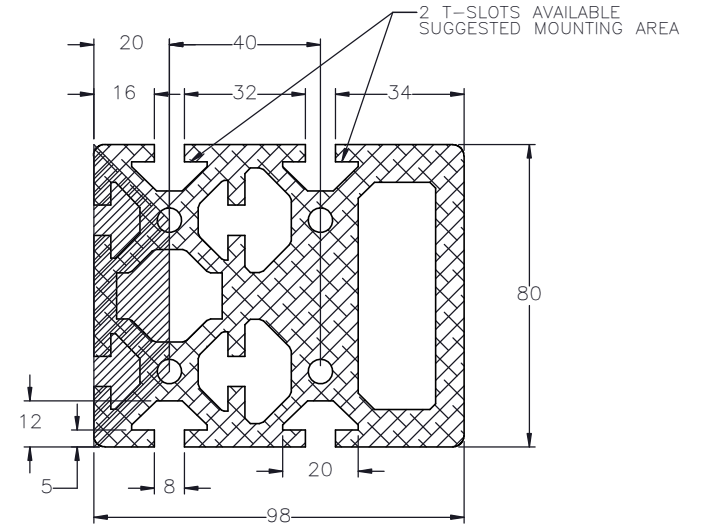
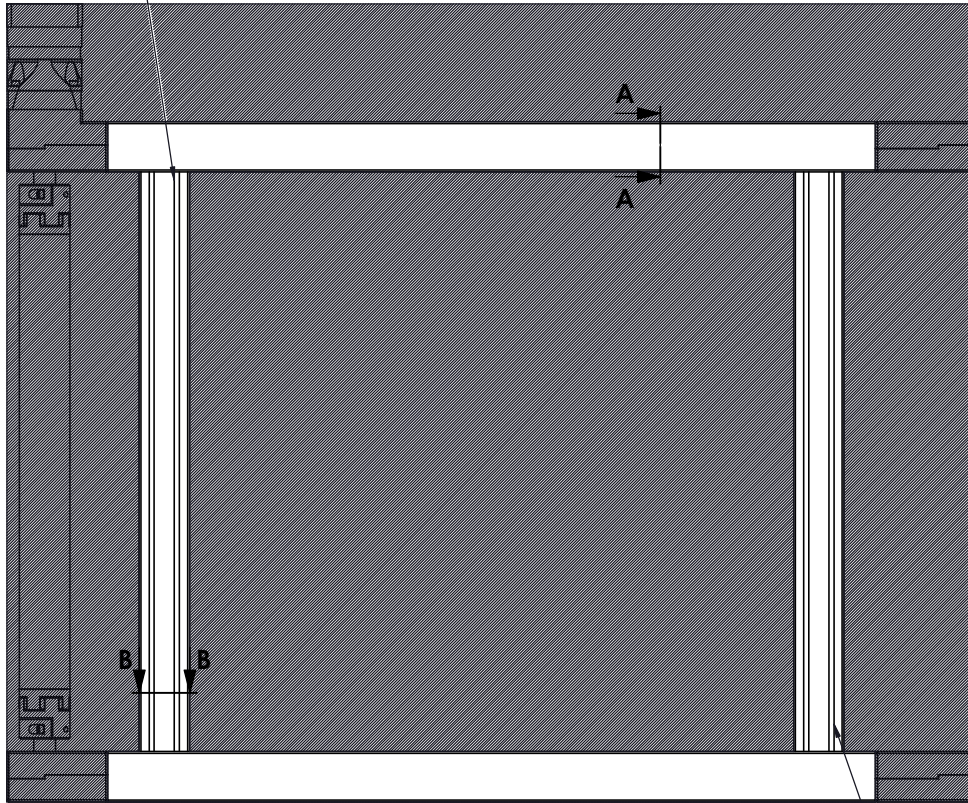


 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 8/7/2023	MATERIAL:	TITLE: MACRON DUAL SBH SYSTEM	
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:		
	LAST SAVED BY: awong DATE: 8/9/2023	UNLESS OTHERWISE SPECIFIED: .X ± .762 DIMENSIONS ARE IN MILLIMETERS: .XX ± .254 TOLERANCES UNLESS NOTED: .XXX ± .127 OTHERWISE: ANG ± 0°30'	SCALE: 1:1	SHEET SIZE: C
	THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING, OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL.	SURFACE FINISH: 63 BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 2 OF 6 PART NUMBER: MDS-SBH-X-X-X	REV: C

GANTRY MOUNTING FEATURES

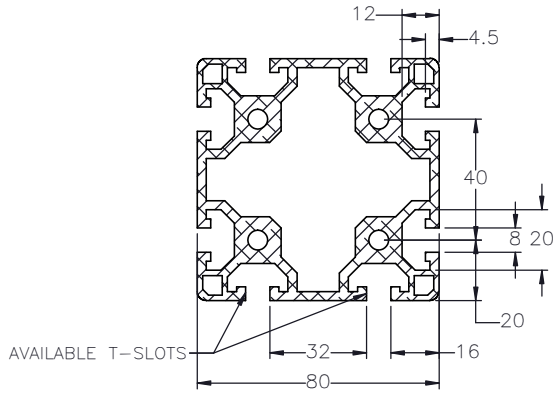
2 T-SLOTS AVAILABLE
IF BEAM IS NOT REMOVED

BOTTOM VIEW




SECTION A-A

2 T-SLOTS AVAILABLE
IF BEAM IS NOT REMOVED



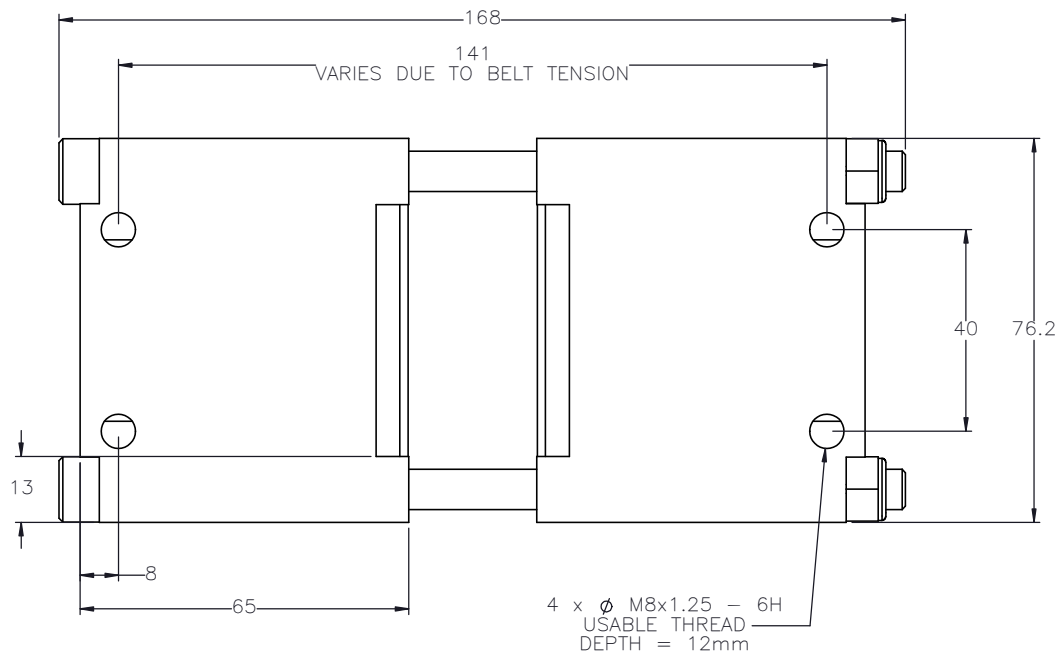
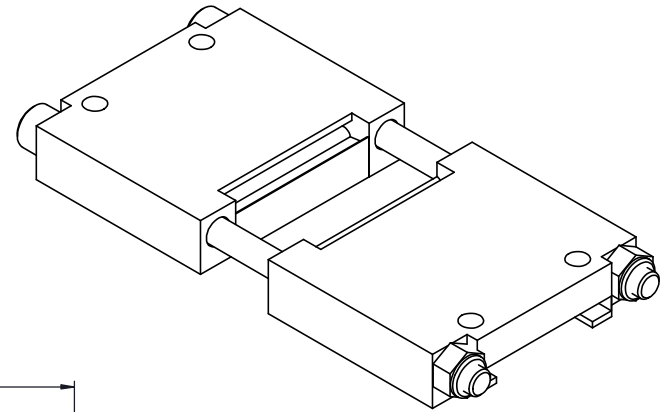
SECTION B-B


AVAILABLE T-SLOTS

 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 8/7/2023	MATERIAL:	TITLE: MACRON DUAL SBH SYSTEM
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: awong DATE: 8/9/2023	UNLESS OTHERWISE SPECIFIED: .X ± .762 DIMENSIONS ARE IN MILLIMETERS: .XX ± .254 TOLERANCES UNLESS NOTED: .XXX ± .127 OTHERWISE: ANG ± 0°30'	
	SURFACE FINISH 63		
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		SHEET: 3 OF 6 PART NUMBER: MDS-SBH-X-X-X	REV:

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CART MOUNTING FEATURES

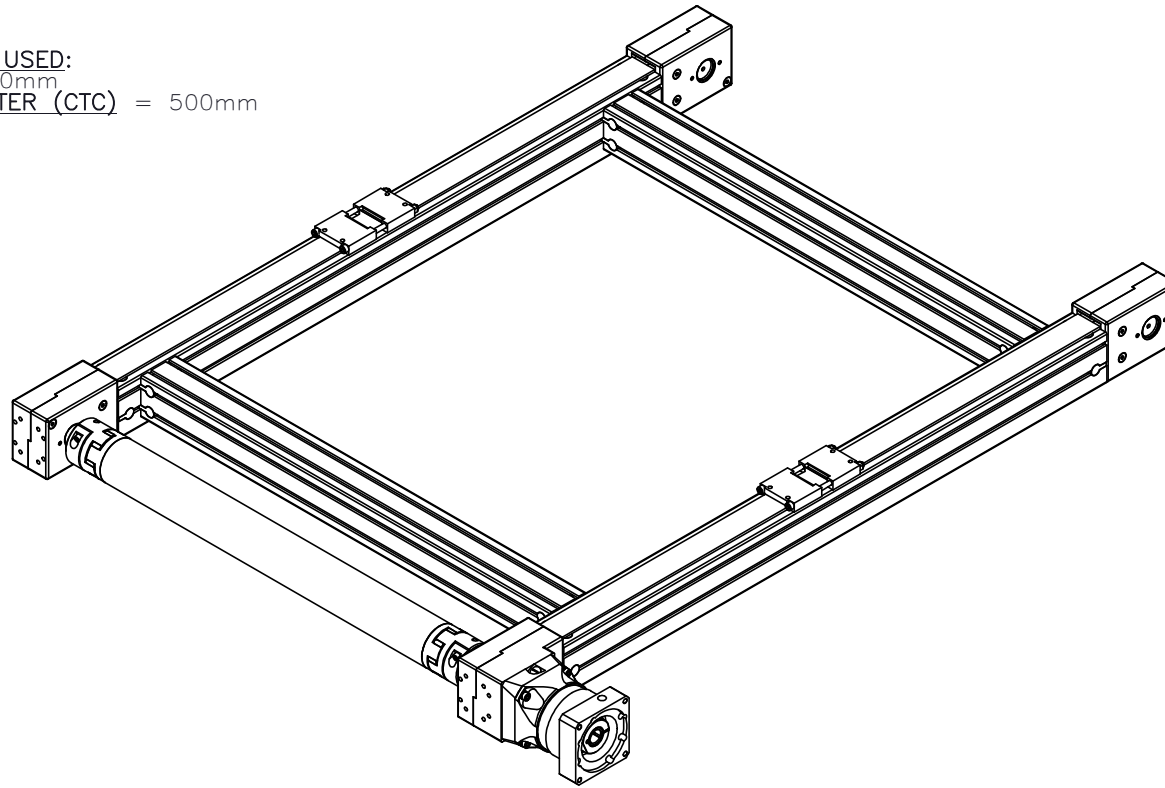


 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 8/7/2023	MATERIAL:	TITLE:
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	50mm BELT TENSION ASSEMBLY
	LAST SAVED BY: awong DATE: 8/9/2023		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	SCALE: 1:1
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL.	SURFACE FINISH: 63 BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 4 OF 6 PART NUMBER: MDS-SBH-X-X-X	REV: C

MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASED TRAVELS USED:
 $X\text{-TRAVEL} = 150\text{mm}$
 $\text{CENTER TO CENTER (CTC)} = 500\text{mm}$




PROPERTY	BASE VALUE (T=150mm, CTC=500mm)
**MOVING MASS	2.828kg(+0.068kg/25mm)
BELT MASS	1.044kg(+0.034kg/25mm)
PULLEY PITCH ϕ	89.13mm (3.509")
PULLEY WIDTH	55.0mm (2.160")
PULLEY MATERIAL	STEEL
TORQUE TUBE LENGTH	880mm
TORQUE TUBE ϕ	80mm
TORQUE TUBE MASS	1.564kg(+0.058kg/25mm)
TORQUE TUBE MATERIAL	ANODIZED ALUMINUM ELASTOMER STYLE COUPLINGS WITH HUB
TRAVEL PER REV	150mm

X-TRAVEL = _____ mm
 CENTER TO CENTER (CTC) = _____ mm

NOTE: ALL SUPPLIED MASSES DO NOT INCLUDE CUSTOMER COMPONENTS (MOTORS, CABLES, ETC)

GEARBOX MASS (ADD TO SYSTEM MASS)	MPG-118	5.8kg
	MRG-118	15.0kg

TOTAL SYSTEM MASS	$(X\text{-TRAVEL} \times .0232) + (CTC \times .0126) + 28.743 = \text{kg}$		
 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 8/7/2023 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: qwong DATE: 8/9/2023	MATERIAL:	TITLE: MACRON DUAL SBH SYSTEM
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	SCALE: 1:1 SHEET SIZE: C
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SPECIFICATIONS

Sensor Type	Inductive
Sensor Size	Fits all 8mm wide T-Slots
Operating Voltage	10-30 VDC
Voltage Drop Across Conducting Sensor	≤1.8 V at 100 mA
Number of Conductors (AWG)	3x26 AWG
Temperature Range	-40°C to 105°C

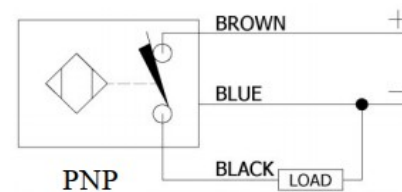
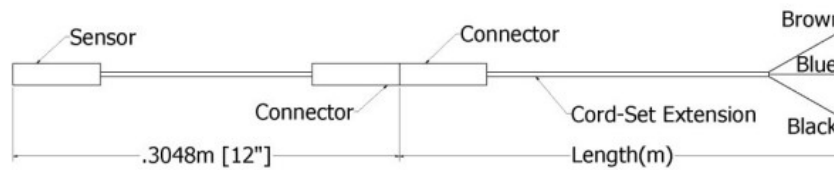
Part Number Configuration

244- - - - -

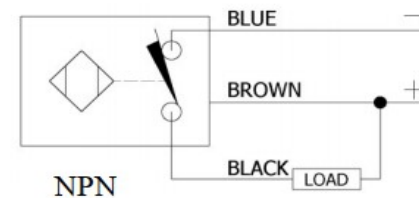
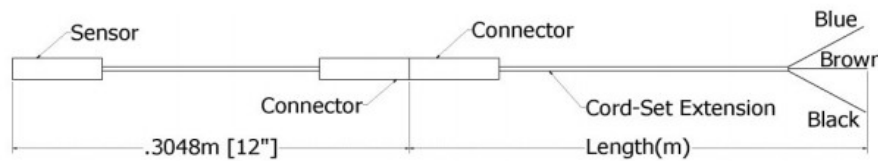
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

Example: PNP, normally closed, cord-set extension length 6 meters = 244-PNP-NC-06

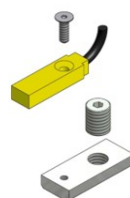
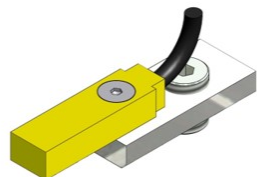
PNP Diagrams



NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



	DRAWN BY: AW DATE: 8/7/2023 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: awong DATE: 8/9/2023	MATERIAL:	TITLE:	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	T-SLOT SENSOR KIT	
	SURFACE FINISH: ✓	SHEET: 6 OF 6	SCALE: 1:1	SHEET SIZE: C
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