

GEARBOX MODELS
 VC-T-090-____
 RATIO: _____

MPG-084-____
 RATIO: _____

MGS-UC2- [] -X- []

ENTER Z-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 250mm
 TRAVEL LIMITS: 250mm-1000mm

ENTER X-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 500mm
 TRAVEL LIMITS: 1000mm-5250mm

*IF TRAVEL IS
 OUTSIDE LIMITS
 LISTED, CONTACT
 MACRON*

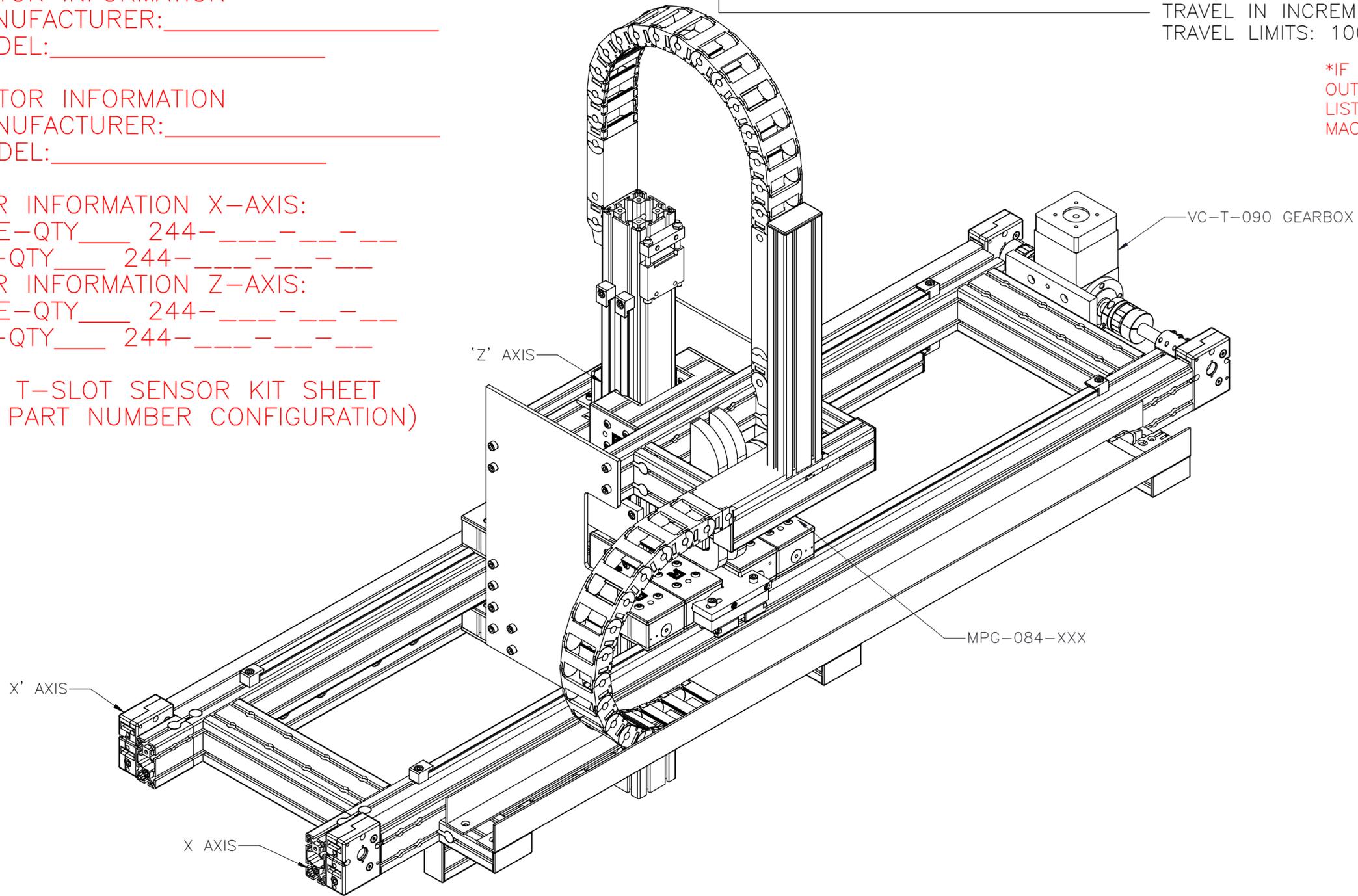
'X' MOTOR INFORMATION
 MANUFACTURER: _____
 MODEL: _____

'Z' MOTOR INFORMATION
 MANUFACTURER: _____
 MODEL: _____

SENSOR INFORMATION X-AXIS:
 HOME-QTY ____ 244-____-____-____
 EOT-QTY ____ 244-____-____-____

SENSOR INFORMATION Z-AXIS:
 HOME-QTY ____ 244-____-____-____
 EOT-QTY ____ 244-____-____-____

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

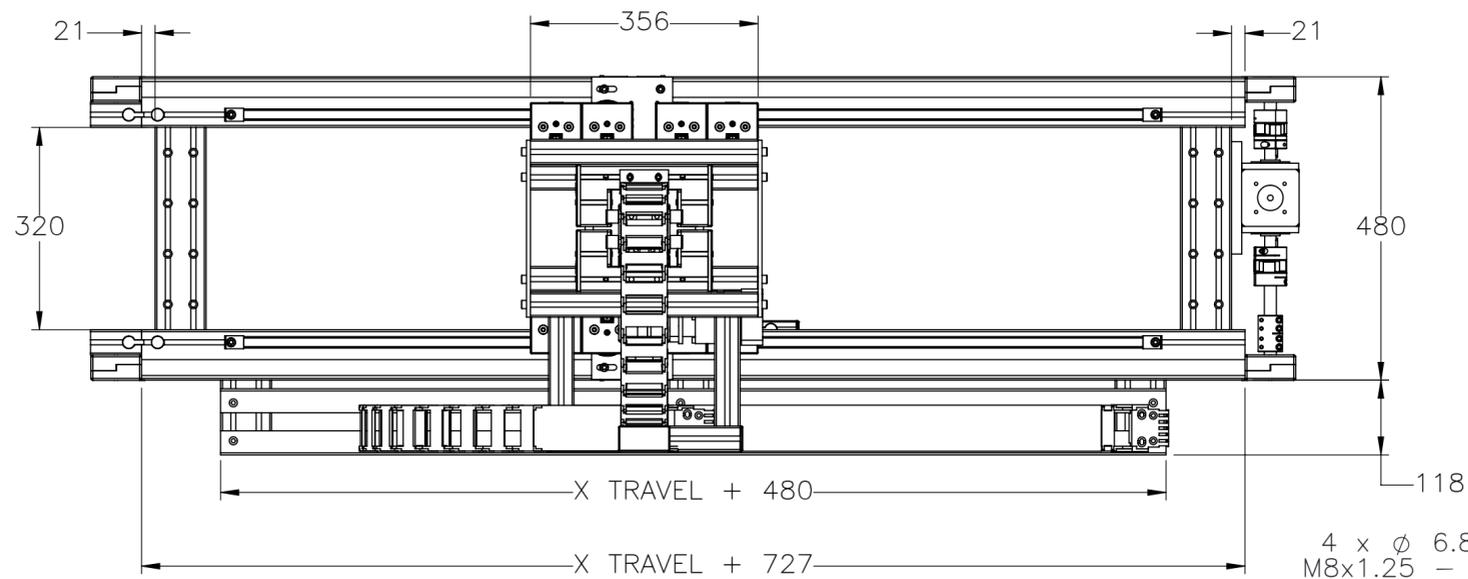


APPROVED: _____
 SIGN & PRINT

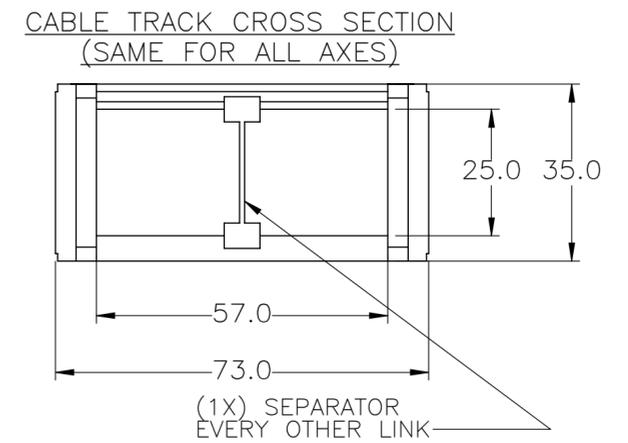
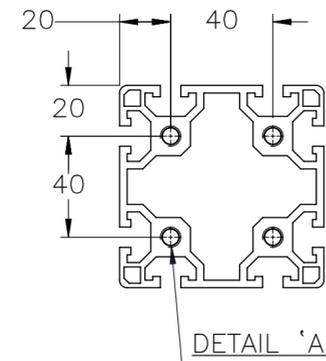
DATE: _____

PO:REFERENCE#: _____

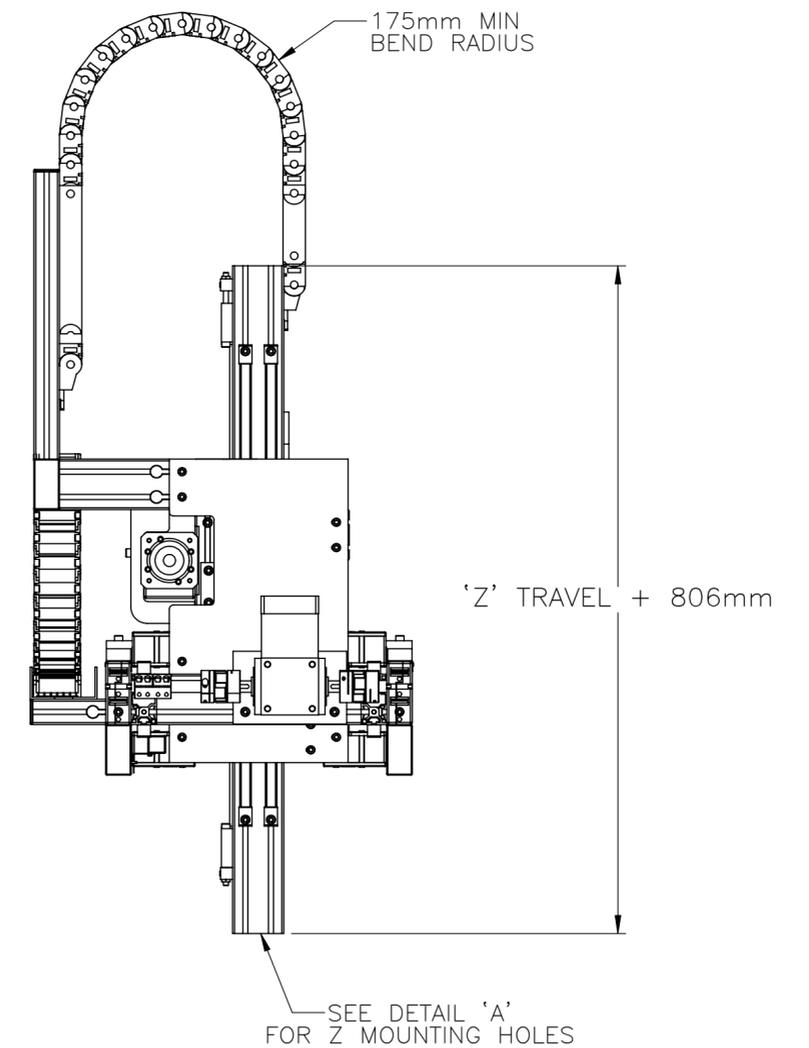
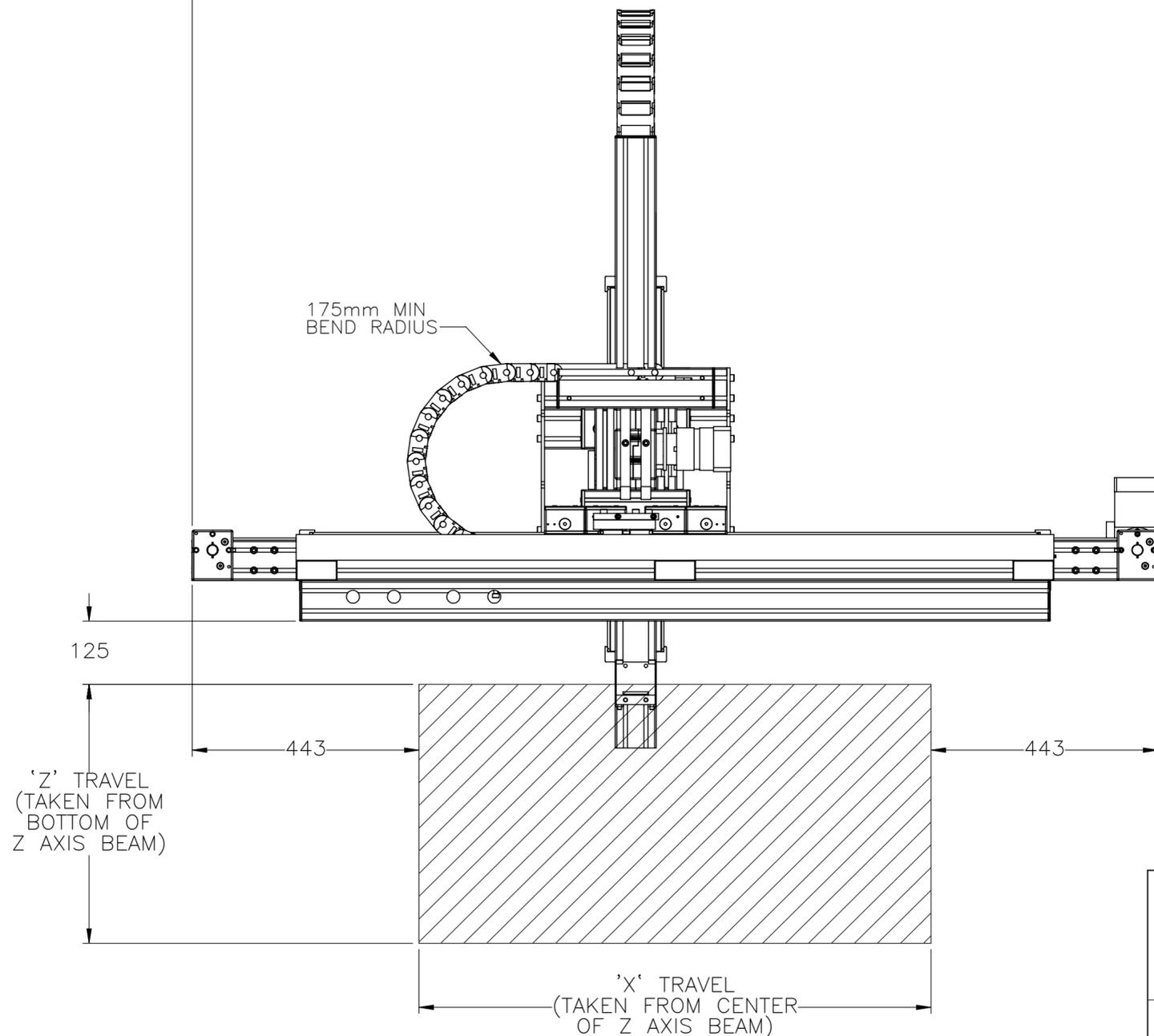
 MACRON DYNAMICS INC	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: Tim	DATE: 4/9/2013 DATE: DD/MM/YYYY DATE: 8/3/2021	MATERIAL:	TITLE: UNIFIED CART GANTRY	
	<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:</small>		FINISH:	SCALE: 1:1 SHEET SIZE: C	
	SURFACE FINISH: \checkmark		SHEET: 1 OF 5	PART NUMBER: MGS-UC2-X-X-X	REV:
	<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>		DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		



GANTRY FOOTPRINT

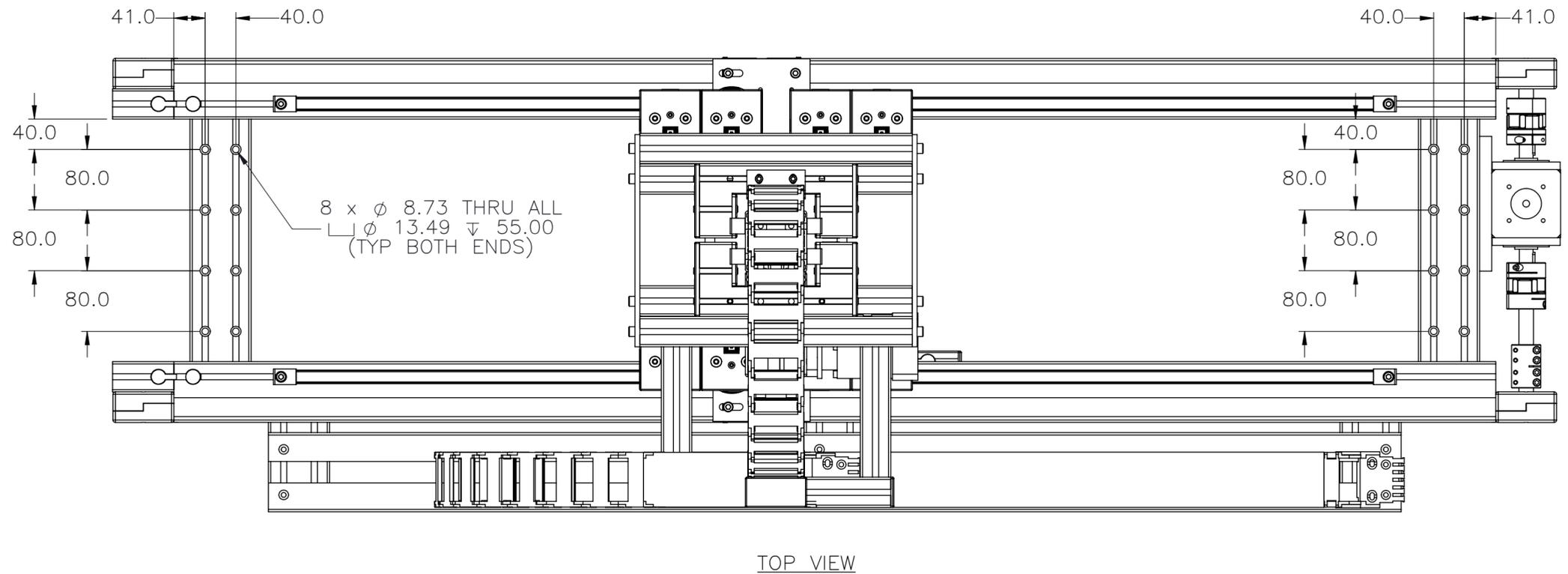
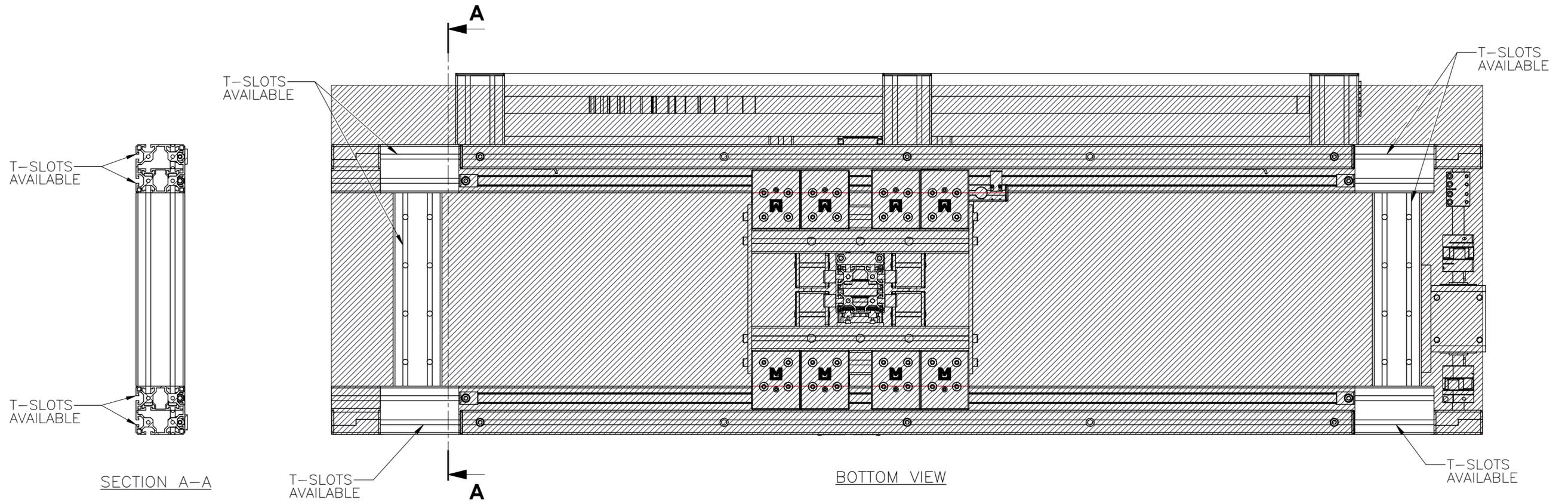


APPROXIMATE OAL
GEARBOX FLANGE SIZES VARY
(X TRAVEL + 891)



<p>MACRON DYNAMICS INC</p> <p><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></p>	<p>DRAWN BY: PHW</p>	<p>DATE: 4/9/2013</p>	<p>MATERIAL:</p>	<p>TITLE: UNIFIED CART GANTRY</p>
	<p>CHECKED BY: --</p>	<p>DATE: DD/MM/YYYY</p>	<p>FINISH:</p>	<p>SCALE 1:1</p>
	<p>LAST SAVED BY: Tim</p>	<p>DATE: 8/3/2021</p>	<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:</p> <p>.X \pm .762 .XX \pm .254 .XXX \pm .127 ANG \pm 0°30'</p>	<p>SHEET SIZE C</p>
	<p>SURFACE FINISH 63</p>	<p>BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING</p>	<p>THIRD ANGLE PROJECTION</p>	<p>SHEET 2 OF 5</p>
		<p>PART NUMBER</p>	<p>MGS-UC2-X-X-X</p>	<p>REV</p>

GANTRY MOUNTING FEATURES



TOP VIEW

 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 4/9/2013	MATERIAL:	TITLE: UNIFIED CART GANTRY		
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:			
	LAST SAVED BY: Tim DATE: 8/3/2021	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: .XX ± .762 .XXX ± .254 OTHERWISE: .127 ANG ± 0°30'			
	SURFACE FINISH 63				
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.		SCALE 1:1 SHEET SIZE C	SHEET 3 OF 5	PART NUMBER MGS-UC2-X-X-X	REV
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION					

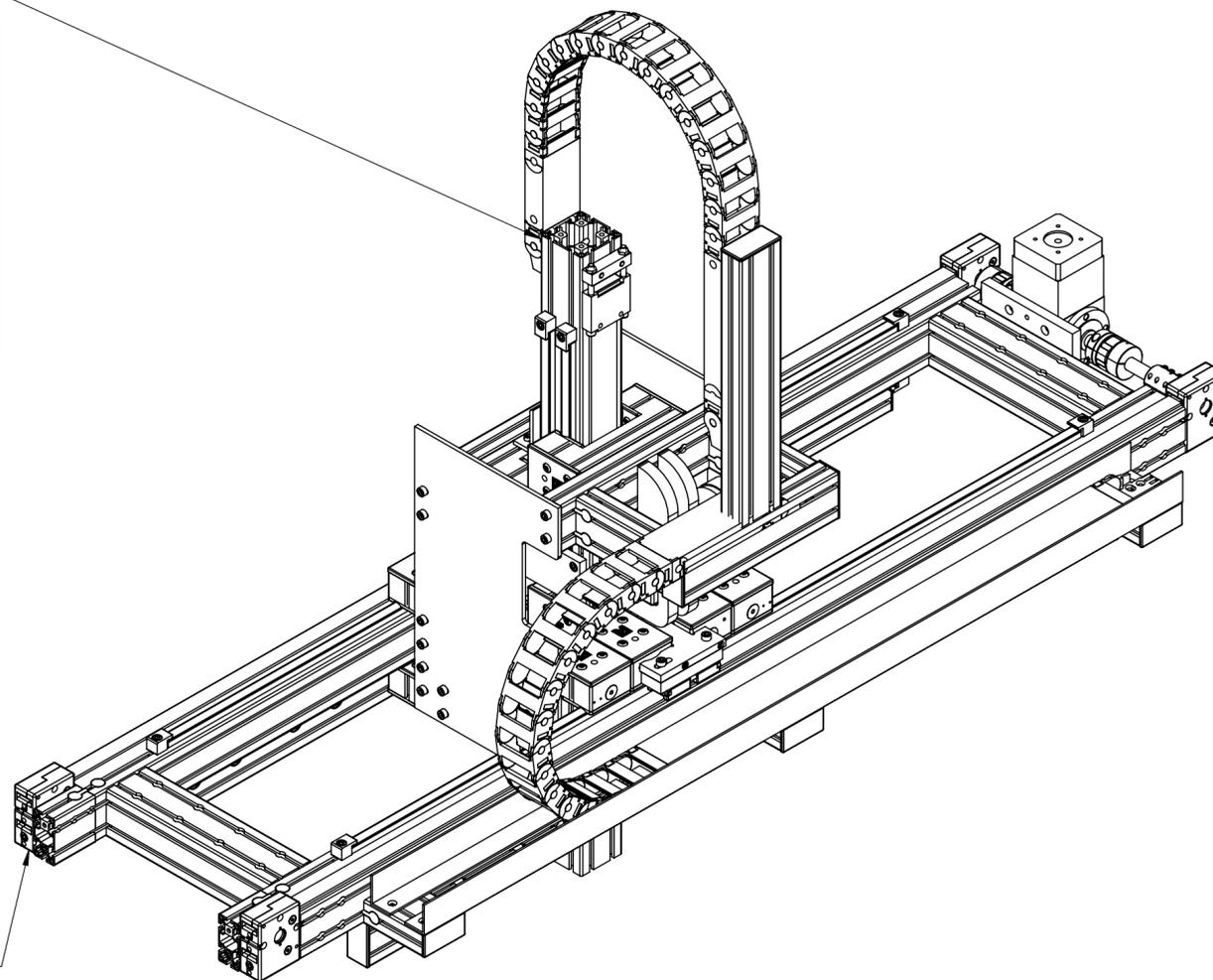
MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED:
 X TRAVEL = 1000mm
 Z TRAVEL = 250mm

PROPERTY	BASE VALUE (T=250mm)
MOVING MASS	11.627kg(+.307kg/25mm)
BELT MASS	0.374kg(+0.0085kg/25mm)
*SYSTEM MASS	44.173kg(+.299kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	54.0mm (2.126")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm

'Z' AXIS



'X' AXIS

PROPERTY	BASE VALUE (T=1000mm)
*MOVING MASS	23.25kg(+0.035kg/25mm)
BELT MASS	.901kg(+0.012kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
CONN SHAFT LENGTH	133.35mm (5.25")
CONN SHAFT ϕ	19.05mm (.75")
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	150mm

X-TRAVEL = _____ mm

Z-TRAVEL = _____ mm

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

TOTAL SYSTEM MASS	$(X \text{ TRAVEL} \times .0208) + (Z \text{ TRAVEL} \times .0127) + 89.85 = \text{kg}$				
 MACRON DYNAMICS INC	DRAWN BY: PHW	DATE: 4/9/2013	MATERIAL:	TITLE: UNIFIED CART GANTRY	
	CHECKED BY: --	DATE: DD/MM/YYYY	FINISH:		
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.	LAST SAVED BY: Tim	DATE: 8/3/2021	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		SCALE 1:1
	SURFACE FINISH 63		.X \pm .762 .XX \pm .254 .XXX \pm .127 ANG \pm 0.30'		SHEET SIZE C
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		THIRD ANGLE PROJECTION		SHEET 4 OF 5 PART NUMBER MGS-UC2-X-X-X REV

*SYSTEM MASS OF Z AXIS NEEDS TO BE ADDED TO THIS

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

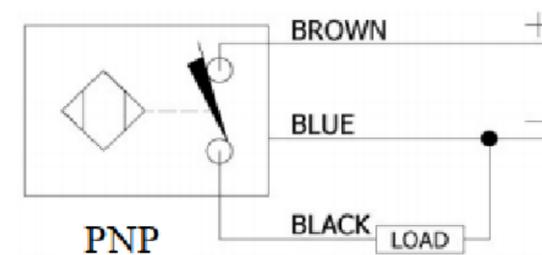
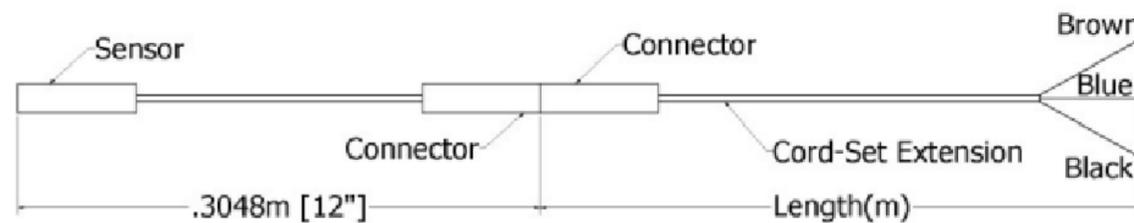
Part Number Configuration

244-_-_-_-_-_-

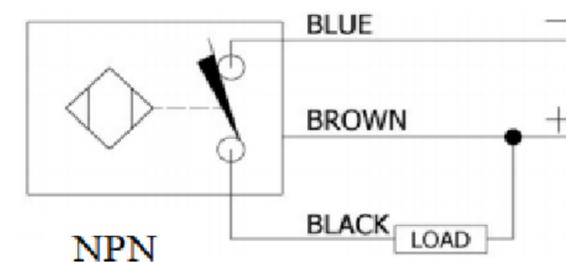
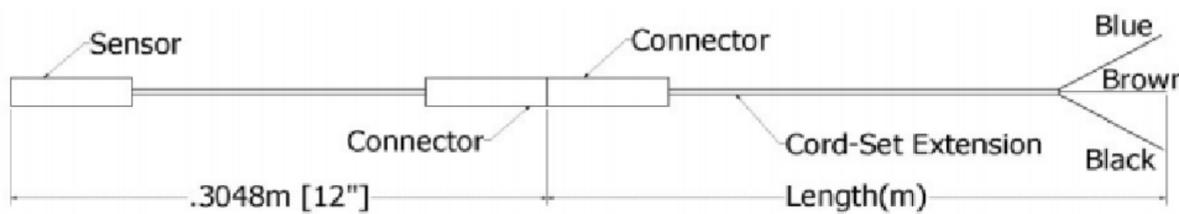
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

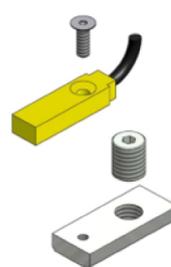
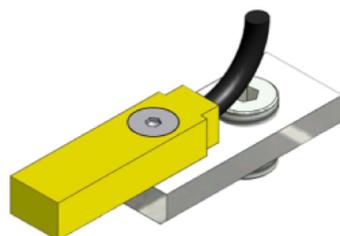
PNP Diagrams



NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: Paul	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 8/3/2021	MATERIAL:	TITLE: T-SLOT SENSOR KIT
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C
	SURFACE FINISH \checkmark		SHEET 5 OF 5	PART NUMBER
	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.		BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	REV