

GEARBOX MODEL (X AXIS)  
 MPG-064 \_\_\_ MPG-084 \_\_\_  
 MRG-064 \_\_\_ MRG-084 \_\_\_  
 RATIO: \_\_\_\_\_

GEARBOX MODEL (Y AXIS)  
 MPG-064 \_\_\_ MPG-084 \_\_\_  
 MRG-064 \_\_\_ MRG-084 \_\_\_  
 RATIO: \_\_\_\_\_

GEARBOX MODEL (Z AXIS)  
 MPG-064 \_\_\_ MPG-084 \_\_\_  
 MRG-064 \_\_\_ MRG-084 \_\_\_

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

MOTOR INFORMATION (X AXIS)  
 MANUFACTURER: \_\_\_\_\_  
 MODEL: \_\_\_\_\_

MOTOR INFORMATION (Y AXIS)  
 MANUFACTURER: \_\_\_\_\_  
 MODEL: \_\_\_\_\_

MOTOR INFORMATION (Z AXIS)  
 MANUFACTURER: \_\_\_\_\_  
 MODEL: \_\_\_\_\_

SENSOR INFORMATION X-AXIS:  
 HOME-QTY \_\_\_ 244-\_\_\_\_\_  
 EOT-QTY \_\_\_ 244-\_\_\_\_\_  
 SENSOR INFORMATION Y-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)

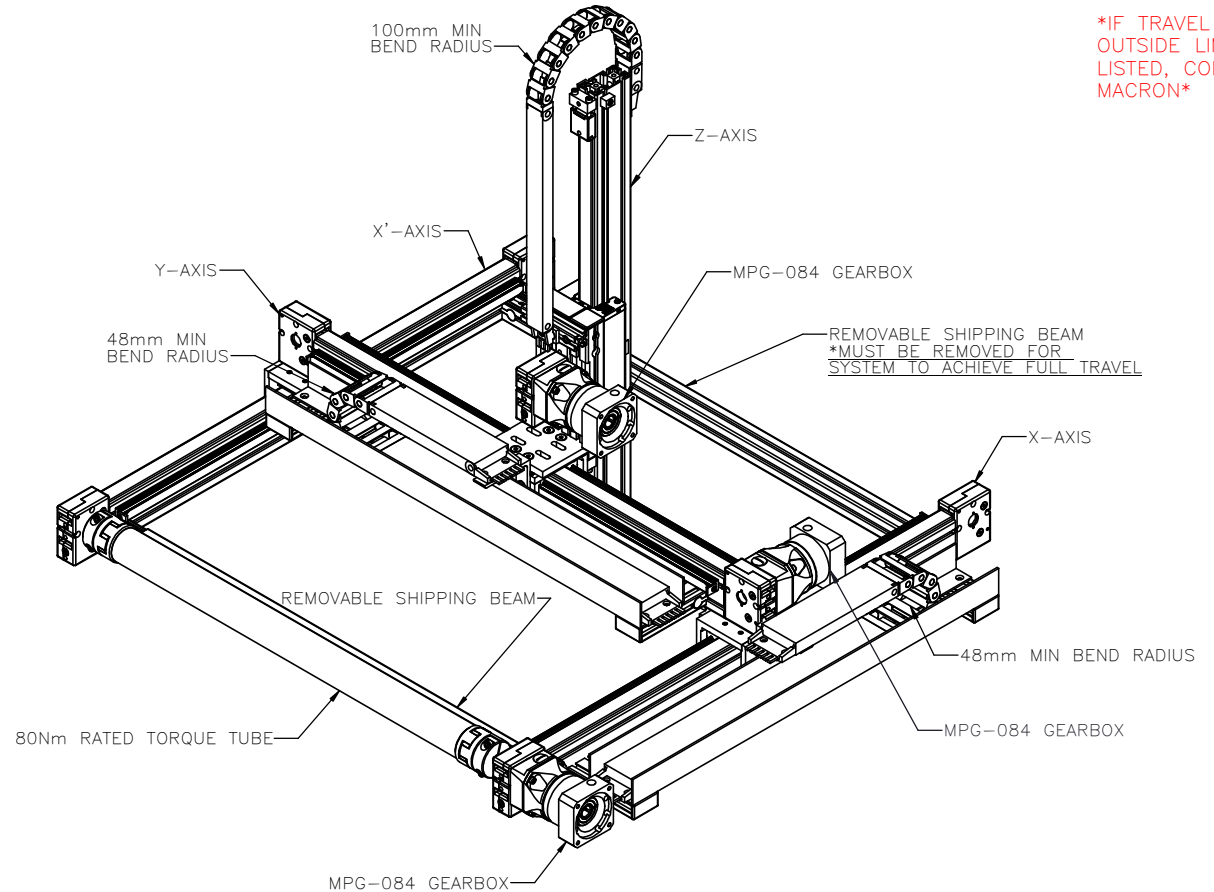
MCS-R6S- [ ] - [ ] -B [ ]

ENTER Z-AXIS TRAVEL  
 TRAVEL IN INCREMENTS OF 25mm  
 TRAVEL LIMITS: 150mm-500mm

ENTER Y-AXIS TRAVEL  
 TRAVEL IN INCREMENTS OF 25mm  
 TRAVEL LIMITS: 150mm-1500mm

ENTER X-AXIS TRAVEL  
 TRAVEL IN INCREMENTS OF 25mm  
 TRAVEL LIMITS: 150mm-5825mm

\*IF TRAVEL IS  
 OUTSIDE LIMITS  
 LISTED, CONTACT  
 MACRON\*



APPROVED: \_\_\_\_\_  
 SIGN & PRINT

DATE: \_\_\_\_\_

PO:REFERENCE#: \_\_\_\_\_

Sold & Serviced By:

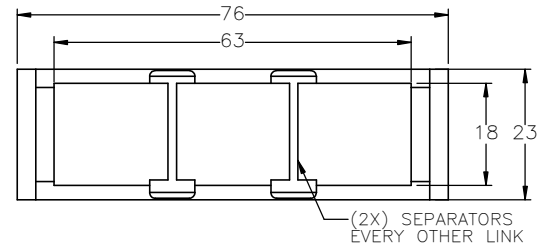
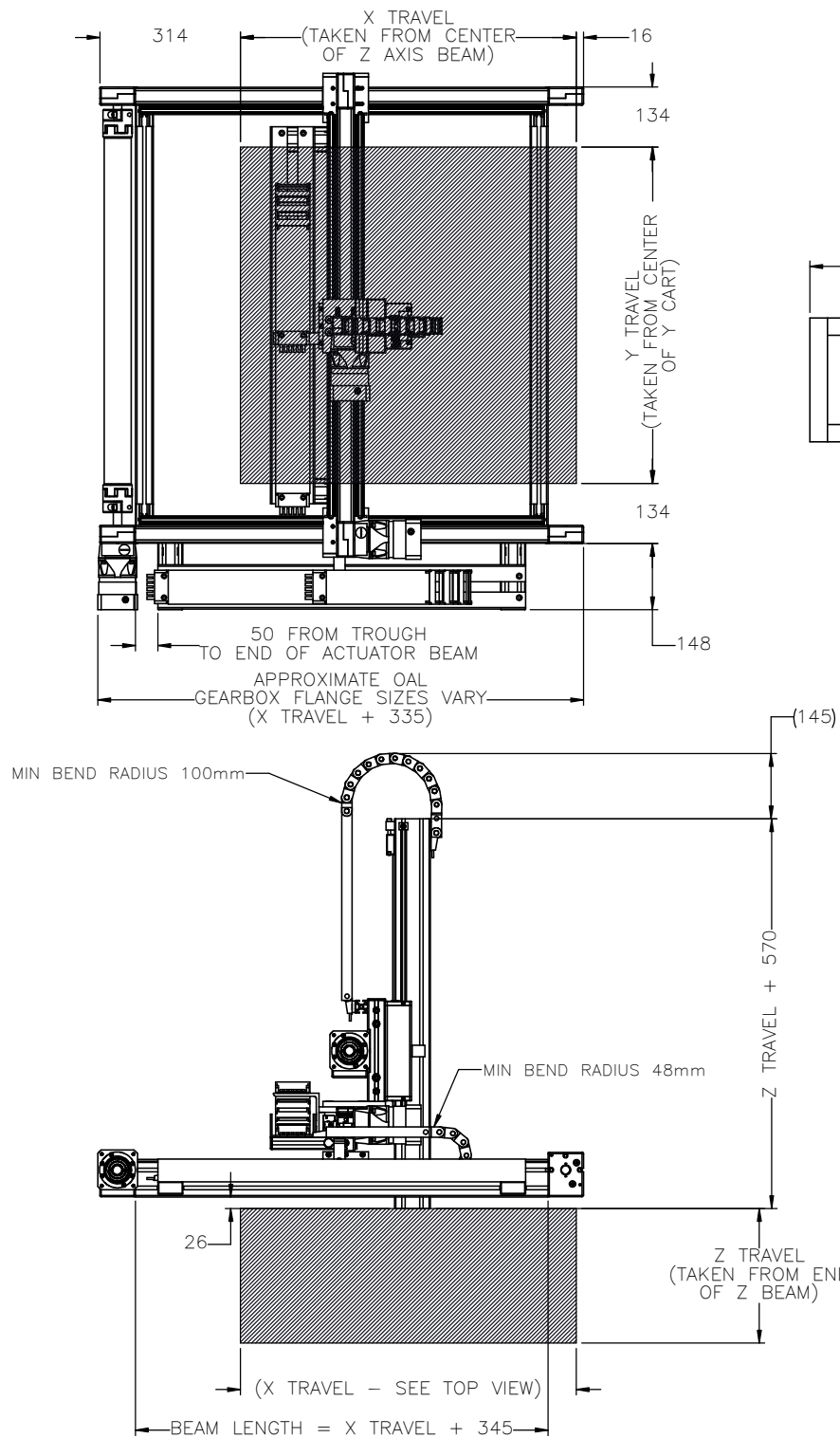


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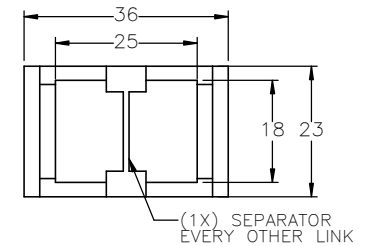
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 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW CHECKED BY: --- LAST SAVED BY: Tim	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 9/22/2020	MATERIAL: _____ FINISH: _____	TITLE: MACRON R6S XYZ GANTRY
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS. TOLERANCES, UNLESS NOTED OTHERWISE: .XX ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'			SCALE: 1:1 SHEET SIZE: C
	SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION			SHEET: 1 OF 26 PART NUMBER: MCS-R6S-X-X-BX
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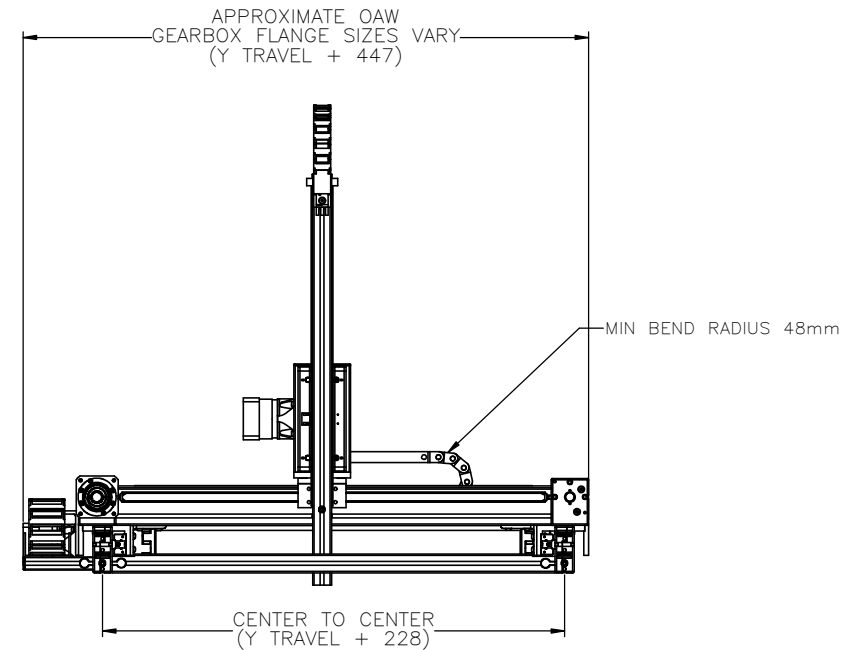
# WORK ENVELOPE AND GANTRY FOOTPRINT




CABLE TRACK CROSS SECTION  
(SAME FOR X AND Y AXIS)



Z CABLE TRACK CROSS SECTION



 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW CHECKED BY: --- LAST SAVED BY: Tim	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 9/22/2020	MATERIAL:  FINISH:	TITLE: MACRON R6S XYZ GANTRY
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0°30'	SCALE: 1:1 SHEET SIZE: C	REV:
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Technical drawing showing the bottom view of a sliding door assembly. The drawing includes the following callouts and dimensions:

- (1X) T-SLOT AVAILABLE SUGGESTED MOUNTING AREA (top right)
- (1X) T-SLOT AVAILABLE IF BEAM IS NOT REMOVED (bottom left)
- (1X) T-SLOT AVAILABLE SUGGESTED MOUNTING AREA (bottom right)
- (BEAM MUST BE REMOVED TO ACHIEVE FULL TRAVEL) (center right)

Dimensions shown in the drawing include 20, 8, 20, 5, and 12. A detail view labeled "SECTION H-H" shows a cross-section of the beam with dimensions 20, 8, 20, 5, and 12. The detail view also includes the text: "AVAILABLE T-SLOT (T-SLOT DIMENSIONS TYPICAL FOR ALL BEAMS)".

**SECTION H-H**

**BOTTOM VIEW**


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**ELECTROMATE**



(1X) T-SLOT AVAILABLE

SECTION I-I

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE: .XX ± .762 .XXX ± .127 ANG ± 0°30'				SHEET SIZE C	
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		SHEET 3 OF 26		PART NUMBER MCS-R6S-X-X-BX	

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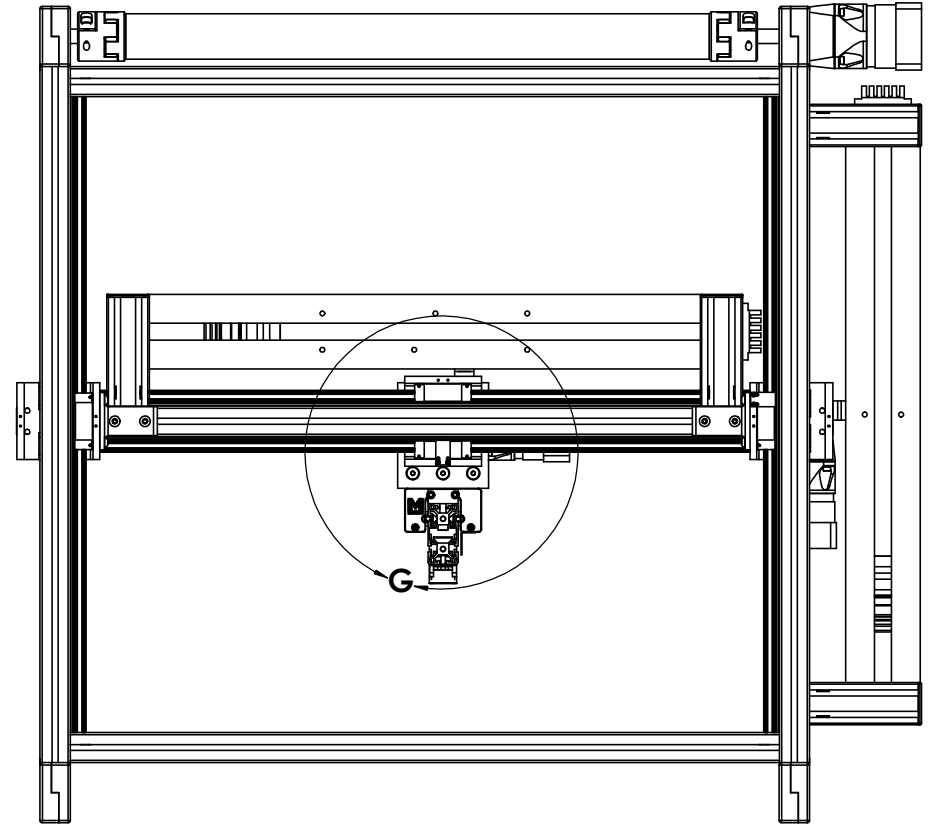
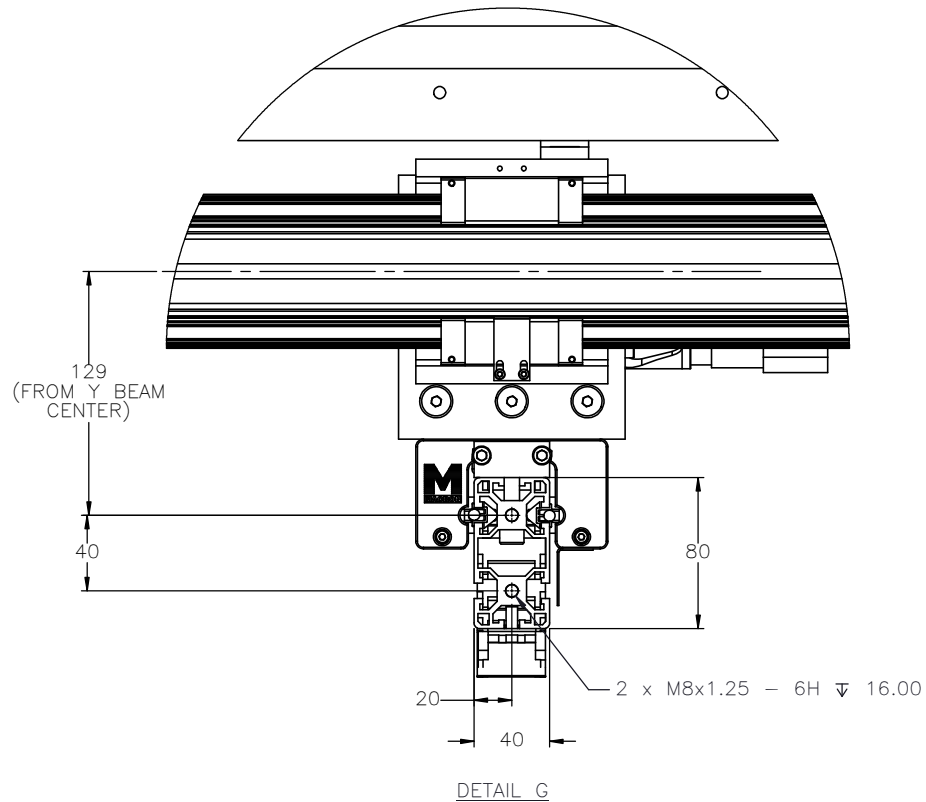


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## CART MOUNTING FEATURES



BOTTOM VIEW

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:	TITLE: MACRON R6S XYZ GANTRY	
	CHECKED BY: —	DATE: DD/MM/YYYY			
	LAST SAVED BY: Tim	DATE: 9/22/2020			
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'				
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	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING				
	THIRD ANGLE PROJECTION				
SHEET 4 OF 26			PART NUMBER MCS-R6S-X-X-BX		REV

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# MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED:

X TRAVEL = 150mm

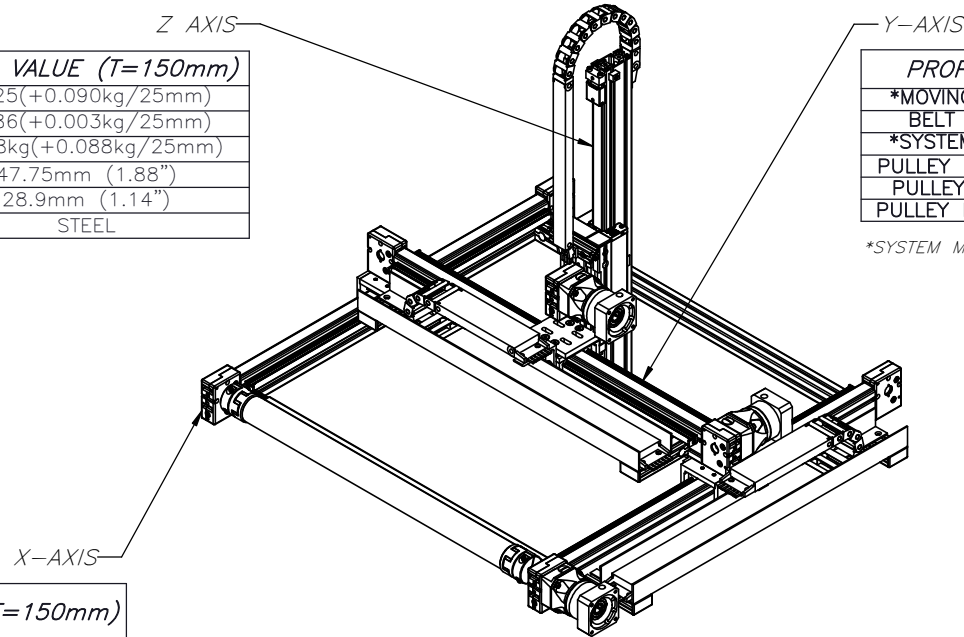
Y TRAVEL = 150mm

Z TRAVEL = 150mm

PROPERTY	BASE VALUE (T=150mm)
MOVING MASS	2.925(+0.090kg/25mm)
BELT MASS	0.086(+0.003kg/25mm)
SYSTEM MASS	7.788kg(+0.088kg/25mm)
PULLEY PITCH $\phi$	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL

PROPERTY	BASE VALUE (T=150mm)
*MOVING MASS	2.215(+0.022kg/25mm)
BELT MASS	0.109(+0.006kg/25mm)
*SYSTEM MASS	6.544(+0.156kg/25mm)
PULLEY PITCH $\phi$	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL

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



PROPERTY	BASE VALUE (T=150mm)
**MOVING MASS	2.861kg(+0.028kg/25mm)
BELT MASS	0.218kg(0.012kg/25mm)
PULLEY PITCH $\phi$	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
***TORQUE TUBE LENGTH	299mm
TORQUE TUBE $\phi$	60mm
***TORQUE TUBE MASS	1.311kg(+0.036kg/25mm)
TORQUE TUBE MATERIAL	ANODIZED ALUMINUM ELASTOMER STYLE COUPLINGS WITH HUB
TRAVEL PER REV	150mm

X TRAVEL = \_\_\_\_\_ mm

Y TRAVEL = \_\_\_\_\_ mm

Z TRAVEL = \_\_\_\_\_ mm

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

GEARBOX MASS (ADD TO SYSTEM MASSES)	MPG-064	1.0kg
	MPG-084	2.3kg
	MPG-114	5.8kg
	MRG-064	3.0kg
	MRG-084	5.6kg
	MRG-114	15.0kg

TOTAL SYSTEM MASS	$(X \text{ TRAVEL} \times .0093) + (Y \text{ TRAVEL} \times .0105) + (Z \text{ TRAVEL} \times .0034) + 22.82$		
 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:
	CHECKED BY: --	DATE: DD/MM/YYYY	
	LAST SAVED BY: JA	DATE: 9/22/2020	
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETER TOLERANCES UNLESS NOTED OTHERWISE: .XX $\pm$ .762 .XX $\pm$ .254 .XXX $\pm$ .127 ANG $\pm$ 0°30'		FINISH:
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SHEET		PART NUMBER	REV
5 OF 26		MCS-R6S-X-X-BX	

\*\*SYSTEM MASS OF Y-AXIS NEEDS TO BE ADDED TO THIS

\*\*\*BASE VALUE AT Y TRAVEL = 150mm

## 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

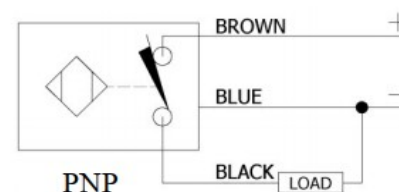
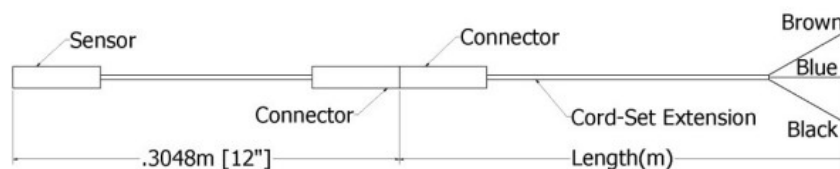
## Part Number Configuration

244-\_-\_-\_-\_-\_-

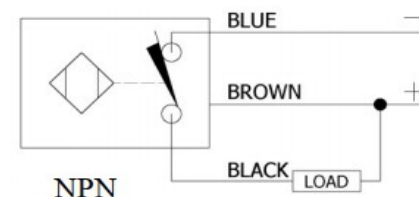
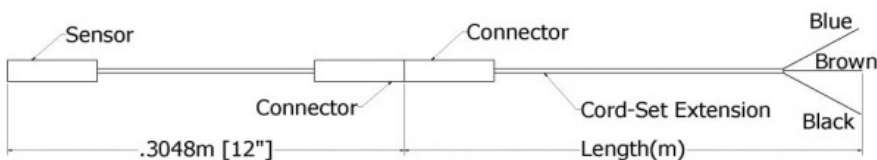
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

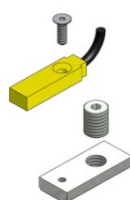
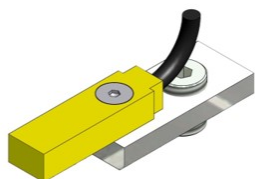
### PNP Diagrams




### NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



<div></div> <div>MACRON DYNAMICS INC</div>	DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:		TITLE: T-SLOT SENSOR KIT
	CHECKED BY: --	DATE: DD/MM/YYYY			
	LAST SAVED BY: Paul	DATE: 9/22/2020	FINISH:		
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	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		PART NUMBER		SHEET SIZE C
	THIRD ANGLE PROJECTION		6 OF 26		REV