

GEARBOX MODEL

MPG-062

MRG-062

RATIO: _____

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

MOTOR INFORMATION

MANUFACTURER: _____

MODEL: _____

SENSOR INFORMATION X-AXIS:

HOME-QTY _____ 244-____-____-____

EOT-QTY _____ 244-____-____-____

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

MDS-R15- [] - [] - X

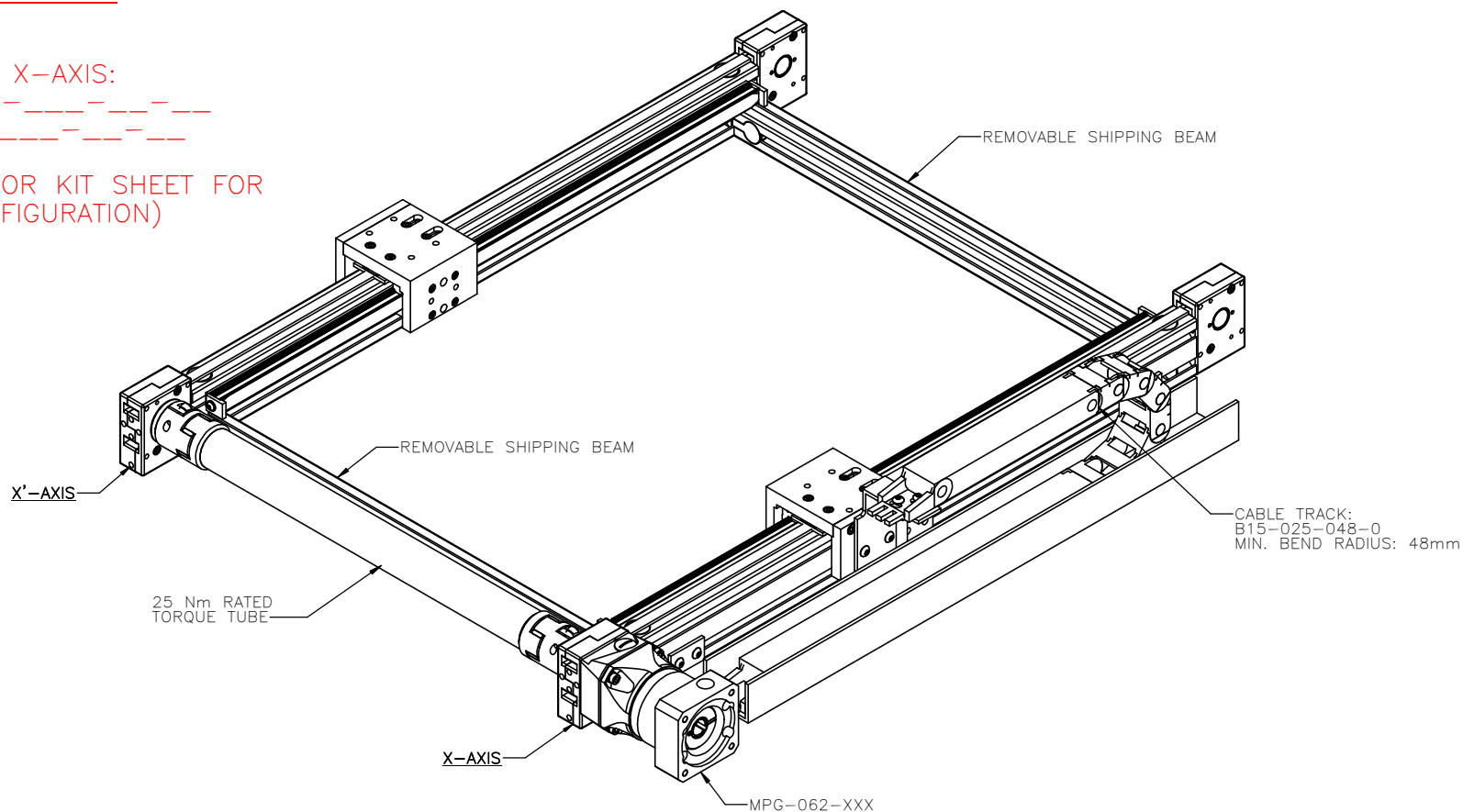
CENTER TO CENTER DISTANCE (mm)

CENTER TO CENTER IN INCREMENTS OF 25mm
LIMITS: 500mm-1000mm

ENTER X-AXIS TRAVEL

TRAVEL IN INCREMENTS OF 25mm
TRAVEL LIMITS: 150mm-5575mm

*IF TRAVEL IS
OUTSIDE LIMITS
LISTED, CONTACT
MACRON*





APPROVED: _____

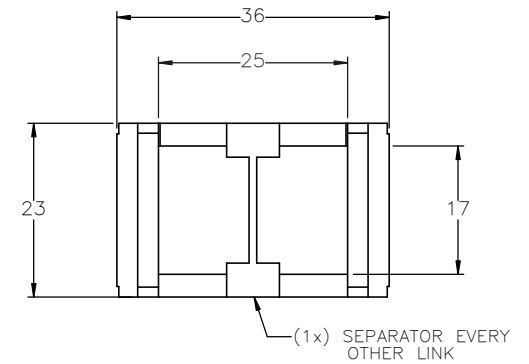
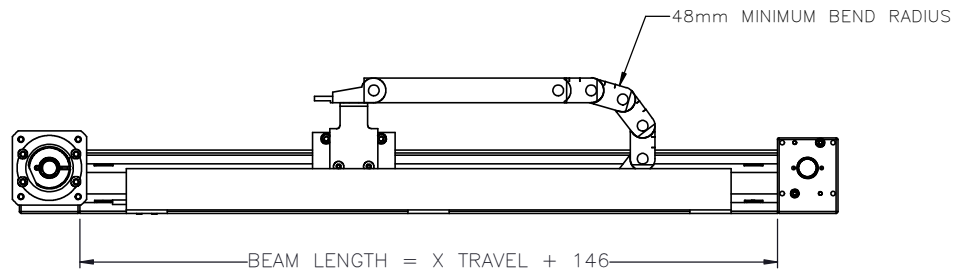
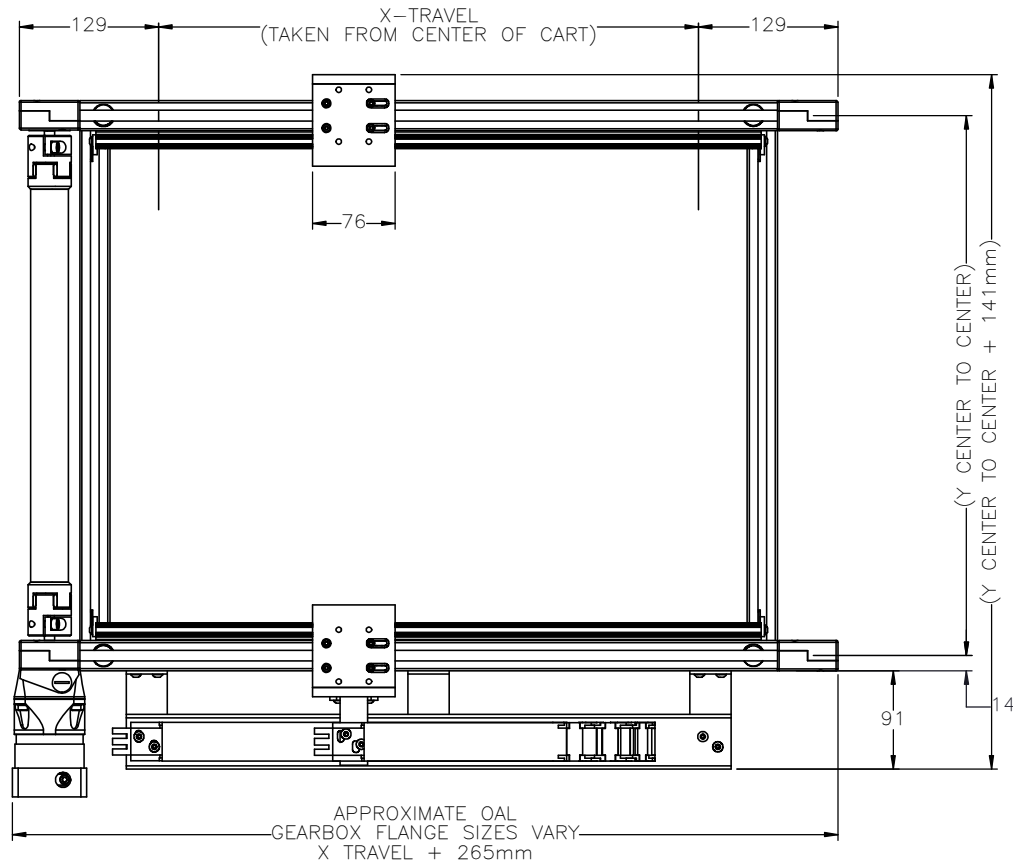
SIGN & PRINT

DATE: _____

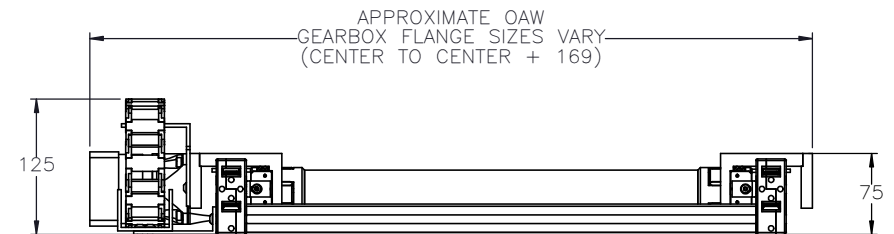
PO:REFERENCE#: _____



 MACRON DYNAMICS INC	DRAWN BY: JA	DATE: 10/30/2018	MATERIAL:	TITLE: MACRON R15 DUAL SYSTEM
	CHECKED BY:	DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: JA	DATE: 8/24/2020		
	<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:</small>			
<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>		SURFACE FINISH 		SHEET 1 OF 6
<small>BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING</small>		THIRD ANGLE PROJECTION		PART NUMBER MDS-R15-X-X-X
		SCALE 1:1		SHEET SIZE C

WORK ENVELOPE AND GANTRY FOOTPRINT

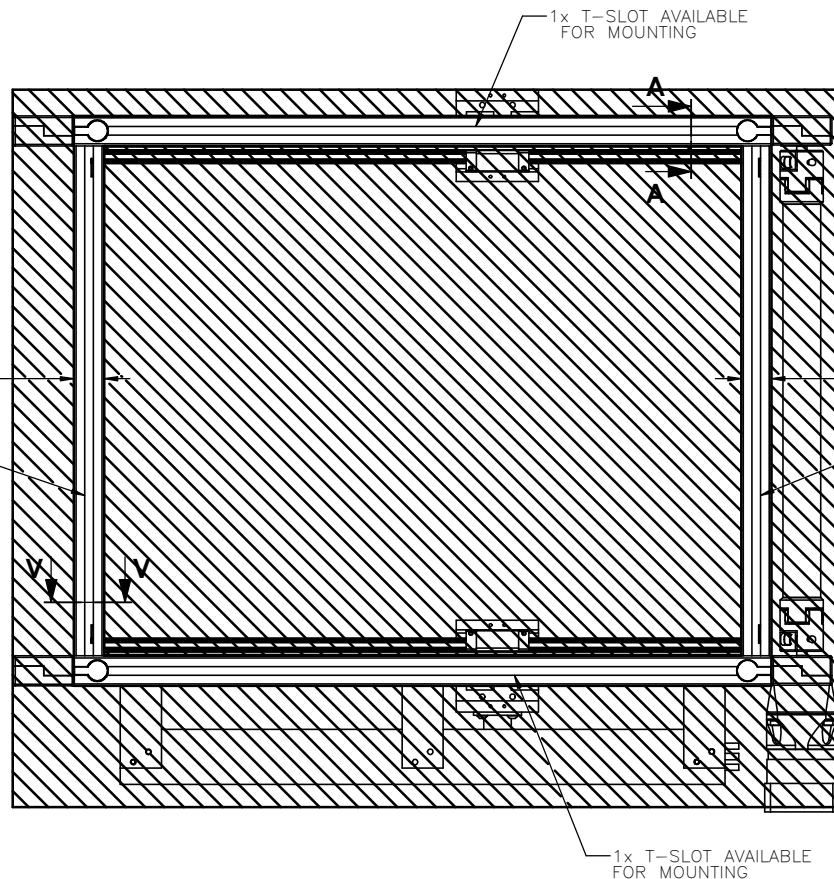


CABLE TRACK CROSS SECTION

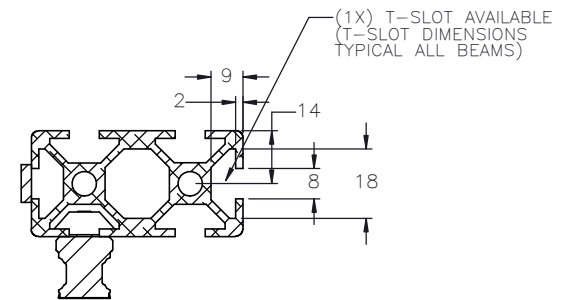


<div> MACRON DYNAMICS INC</div>	DRAWN BY: JA	DATE: 10/30/2018	MATERIAL:		TITLE: MACRON R15 DUAL SYSTEM	
	CHECKED BY:	DATE: DD/MM/YYYY				
	LAST SAVED BY: JA	DATE: 8/24/2020	FINISH:	SCALE: 1:1 SHEET SIZE: C		REV
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:		X ± .762 XX ± .254 XXX ± .127 ANG ± 0°30'			
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 		SHEET		PART NUMBER	
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		2 OF 6		MDS-R15-X-X-X	
	THIRD ANGLE PROJECTION					

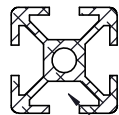
GANTRY MOUNTING FEATURES





BOTTOM VIEW



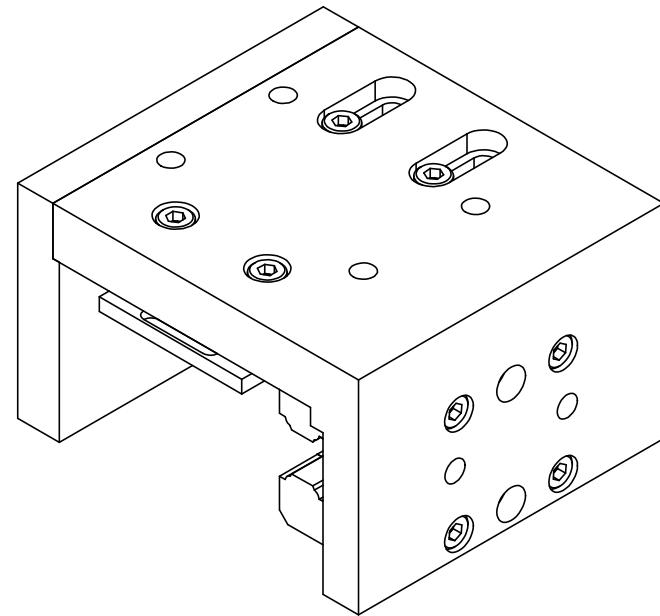
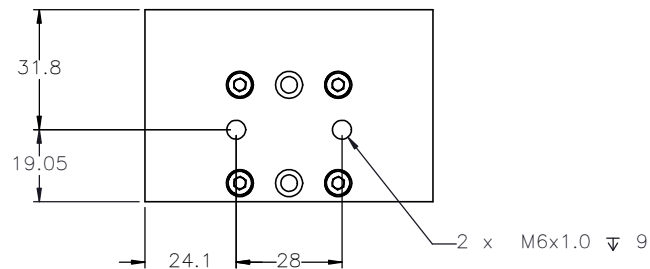
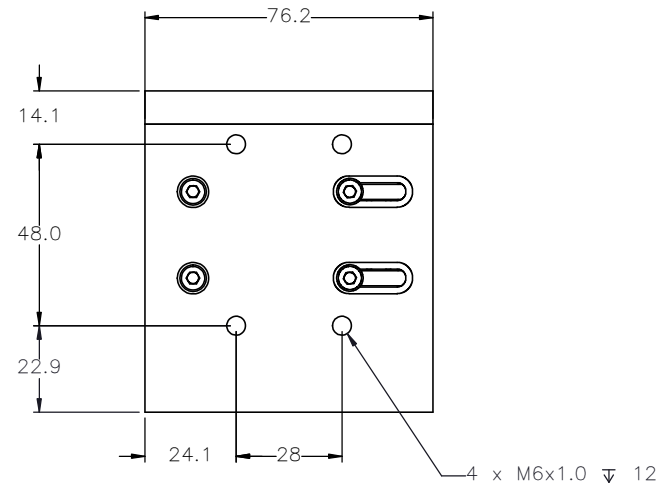
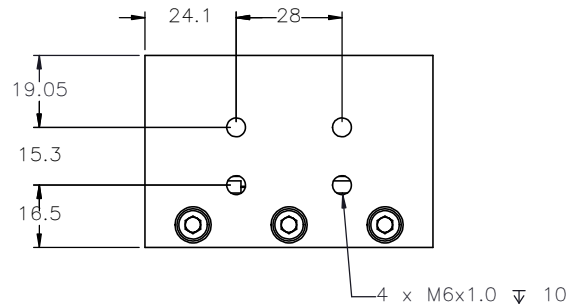
SECTION A-A




SECTION V-V

 MACRON DYNAMICS INC	DRAWN BY: JA	DATE: 10/30/2018	MATERIAL:		TITLE: MACRON R15 DUAL SYSTEM	
	CHECKED BY:	DATE: DD/MM/YYYY				
	LAST SAVED BY: JA	DATE: 8/24/2020	FINISH:		SCALE: 1:1 SHEET SIZE: C	
	<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:</small>		<small>.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'</small>		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>	SURFACE FINISH 		SHEET		PART NUMBER	
	<small>BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING</small>		3 OF 6		MDS-R15-X-X-X	
	THIRD ANGLE PROJECTION				REV	

CART MOUNTING FEATURES



 MACRON DYNAMICS INC	DRAWN BY: JA CHECKED BY: TB LAST SAVED BY: TB	DATE: 10/30/2018 DATE: DD/MM/YYYY DATE: 8/24/2020	MATERIAL: FINISH:	TITLE: CSA-R15
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:		.XX \pm .762 .XX \pm .254 .XXX \pm .127 ANG \pm 0°30'	SCALE: 1:1 SHEET SIZE: C
	SURFACE FINISH: ∇ BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		SHEET: 4 OF 6 PART NUMBER: MDS-R15-X-X-X	REV:
	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.		THIRD ANGLE PROJECTION	

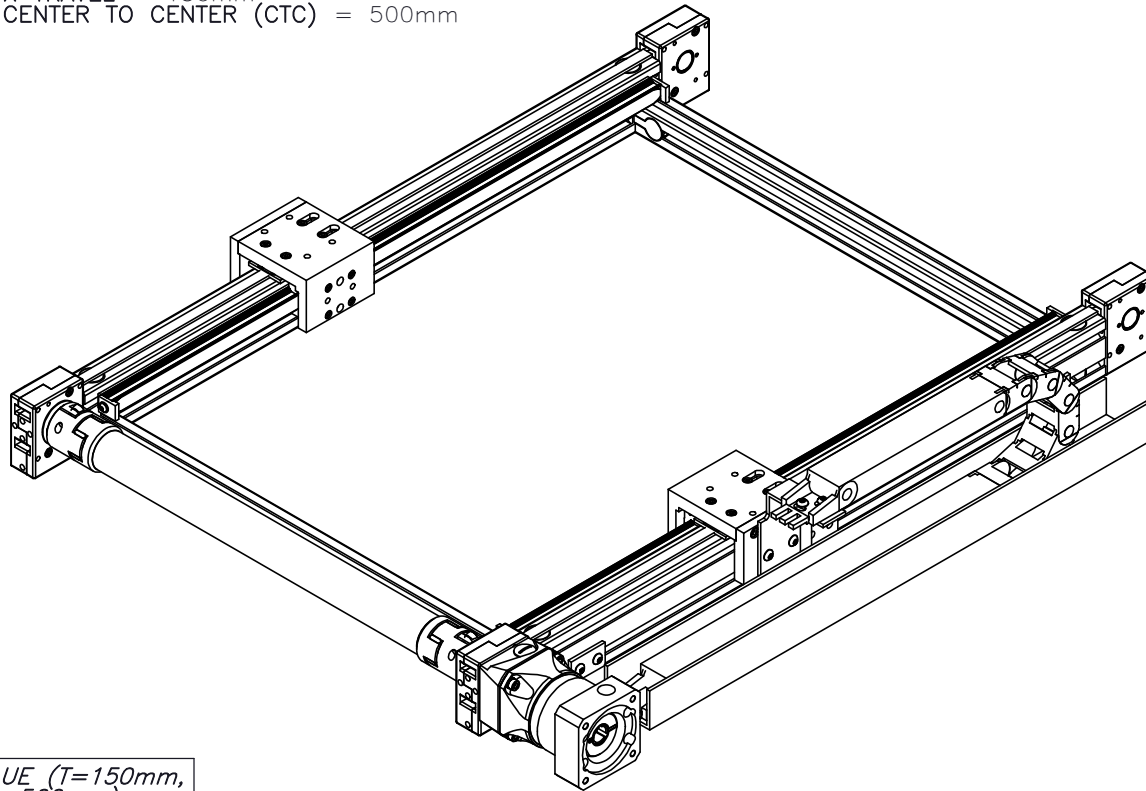
MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE VALUES USED

X TRAVEL = 150mm

CENTER TO CENTER (CTC) = 500mm




PROPERTY	BASE VALUE (T=150mm, CTC=500mm)
**MOVING MASS	1.206kg(+0.014kg/25mm)
BELT MASS	0.064kg(+0.004kg/25mm)
PULLEY PITCH ϕ	33.42mm (1.32")
PULLEY WIDTH	16.3mm (0.64")
PULLEY MATERIAL	STEEL
TORQUE TUBE LENGTH	463mm
TORQUE TUBE ϕ	35mm
TORQUE TUBE MASS	0.535kg(+0.017kg/25mm)
TORQUE TUBE MATERIAL	ANODIZED ALUMINUM ELASTOMER STYLE COUPLINGS WITH HUB
TRAVEL PER REV	105mm

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-062	1.0kg
	MRG-062	3.0kg

TOTAL SYSTEM MASS		(X TRAVEL x .0076) + (Y TRAVEL x .0021) + 3.530 = kg	
 MACRON DYNAMICS INC	DRAWN BY: JA	DATE: 10/30/2018	MATERIAL:
	CHECKED BY:	DATE: DD/MM/YYYY	
	LAST SAVED BY: JA	DATE: 8/24/2020	FINISH:
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS NOTED OTHERWISE: .X \pm .762 .XX \pm .254 .XXX \pm .127 ANG \pm 0°30'		
SURFACE FINISH <input checked="" type="checkbox"/>		BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING	
THIRD ANGLE PROJECTION		SHEET 5 OF 6	PART NUMBER MDS-R15-X-X-X
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

TITLE:
MACRON R15
DUAL SYSTEM

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

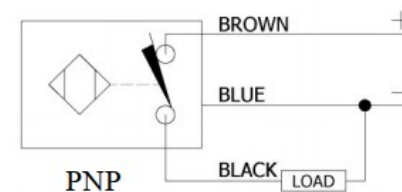
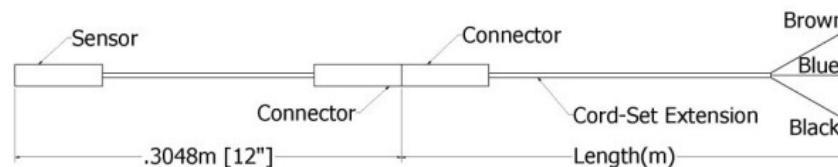
Part Number Configuration

244-_-_-_-_-

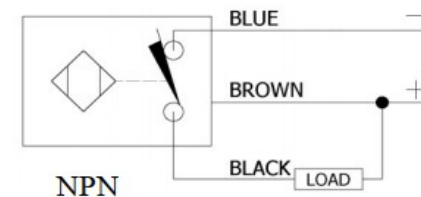
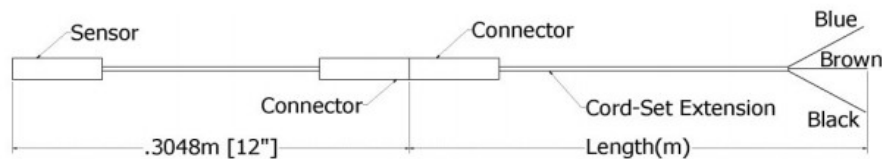
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

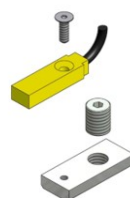
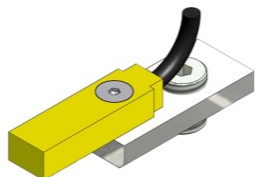
PNP Diagrams




NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



 MACRON DYNAMICS INC	DRAWN BY: JA	DATE: 10/30/2018	MATERIAL:	TITLE: T-SLOT SENSOR KIT					
	CHECKED BY:	DATE: DD/MM/YYYY							
	LAST SAVED BY: JA	DATE: 8/24/2020	FINISH:						
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .XX ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'								
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 $\sqrt{R_A}$ / BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		SHEET 6 OF 6	PART NUMBER SENSOR CALL-OUT	SCALE 1:1	SHEET SIZE C	REV C