

MDS-14S- - - X

GEARBOX MODEL

MPG-064 MPG-084 MPG-114
 MRG-064 MRG-084 MRG-114
 RATIO: _____

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-5575mm

IF TRAVEL IS OUTSIDE LIMITS LISTED, CONTACT MACRON

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

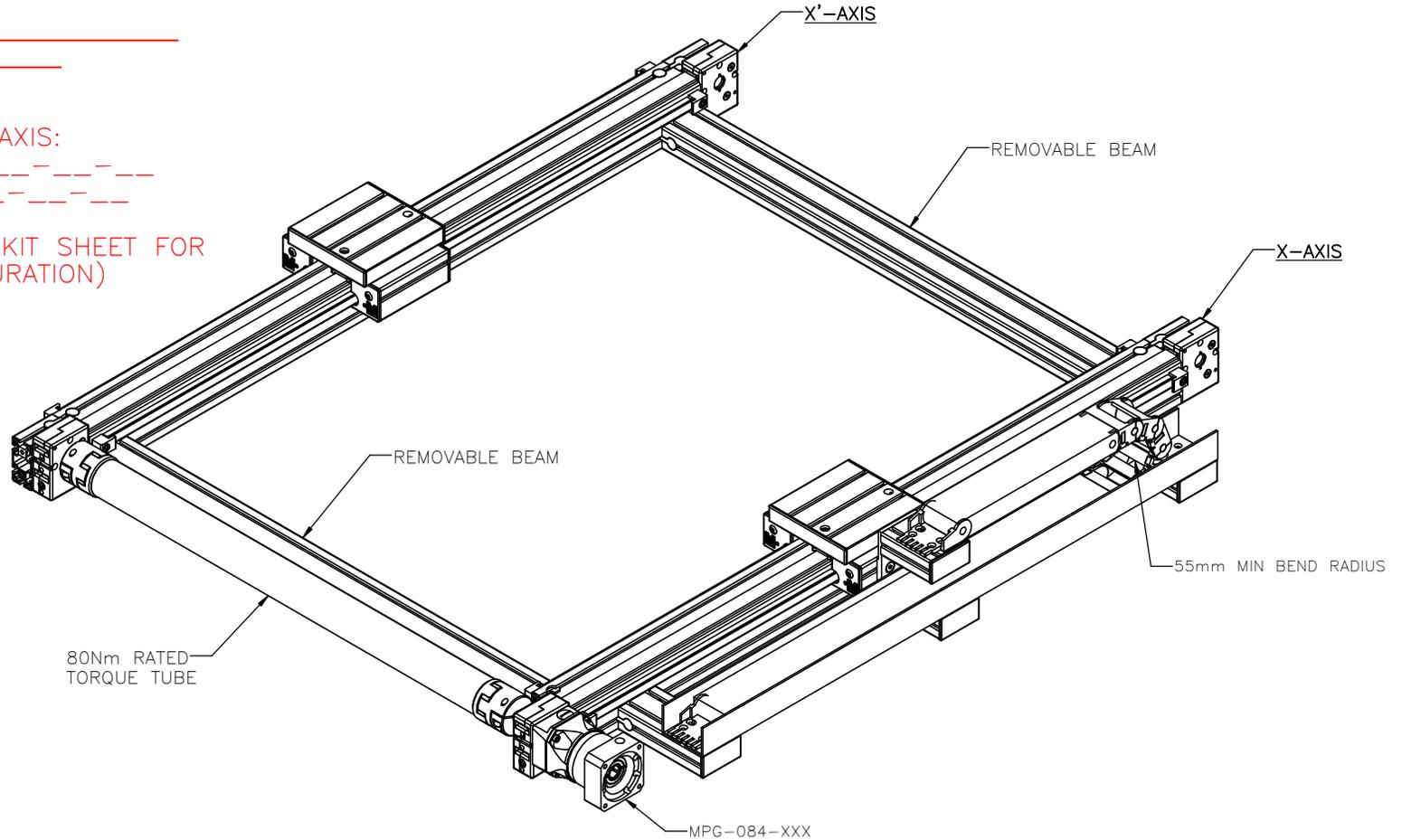
MOTOR INFORMATION

MANUFACTURER: _____
 MODEL: _____

SENSOR INFORMATION X-AXIS:

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

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



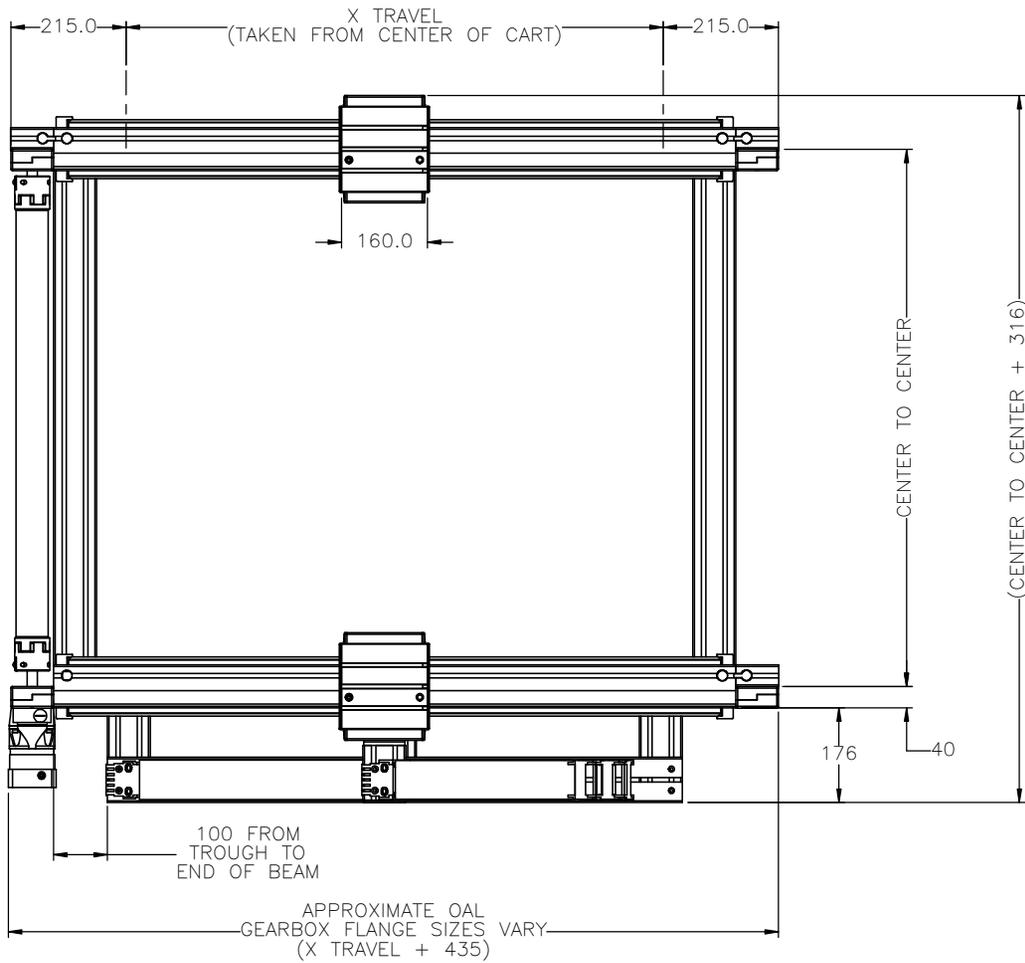
APPROVED: _____

SIGN & PRINT

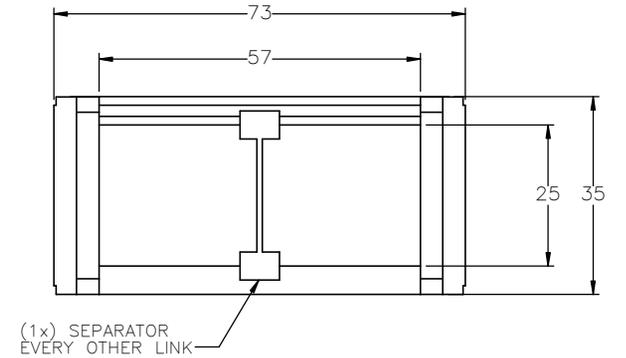
DATE: _____

PO:REFERENCE#: _____

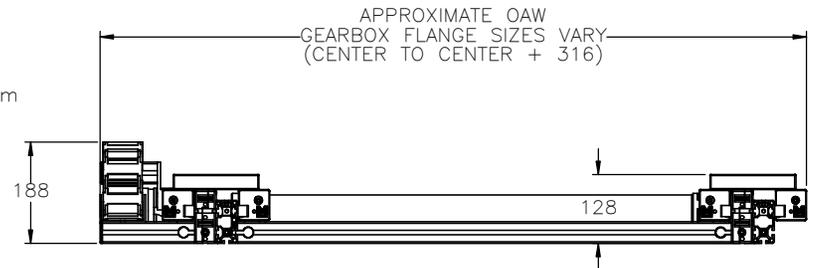
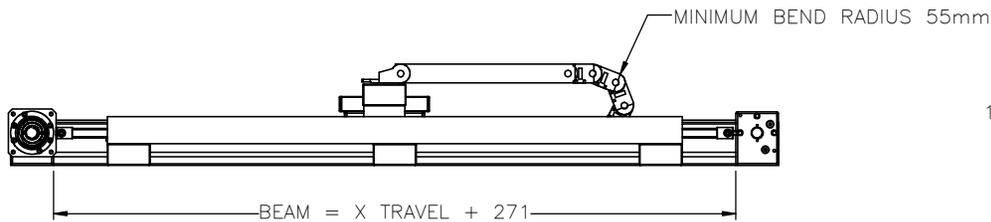
 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017 MATERIAL:	TITLE: MACRON 14S DUAL SYSTEM
	CHECKED BY: DATE: DD/MM/YYYY	
	LAST SAVED BY: Paul DATE: 8/24/2020	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES, UNLESS NOTED OTHERWISE:		FINISH:
.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 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.		SHEET: 1 OF 6 PART NUMBER: MDS-14S-X-X-X
SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		REV:



GANTRY FOOTPRINT



CABLE TRACK CROSS SECTION



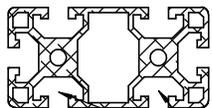
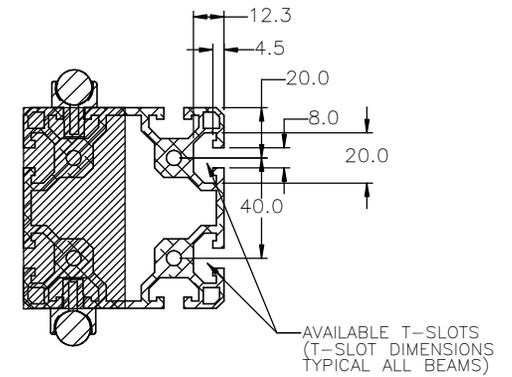
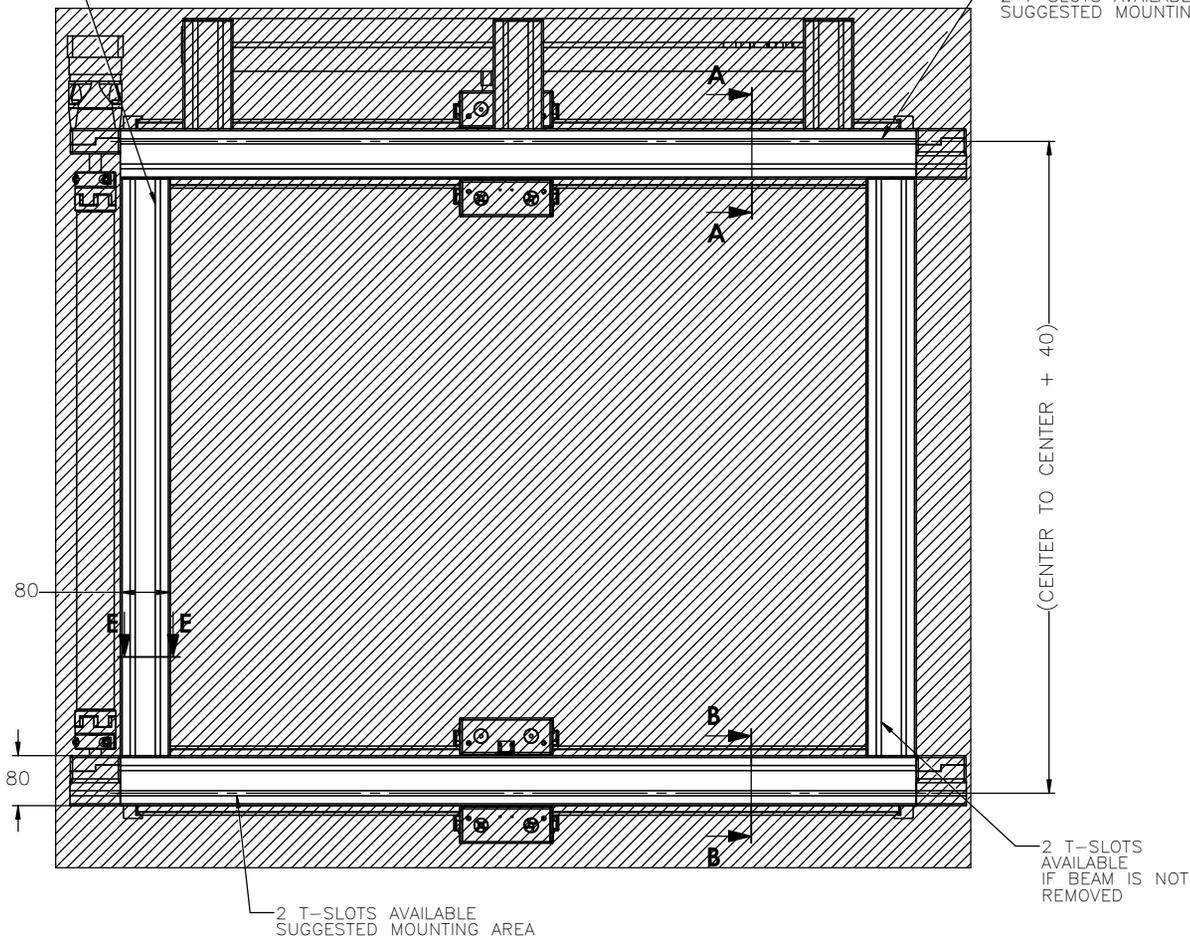
 MACRON DYNAMICS INC	DRAWN BY: PHW CHECKED BY: LAST SAVED BY: Paul	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 8/24/2020	MATERIAL: FINISH:	TITLE: MACRON 14S DUAL SYSTEM
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS NOTED OTHERWISE: .XX ± .254 .XXX ± .127 ANG ± 0°30'		SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SCALE: 1:1 SHEET SIZE: C
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GANTRY MOUNTING FEATURES

BOTTOM VIEW

2 T-SLOTS AVAILABLE
IF BEAM IS NOT
REMOVED

2 T-SLOTS AVAILABLE
SUGGESTED MOUNTING AREA

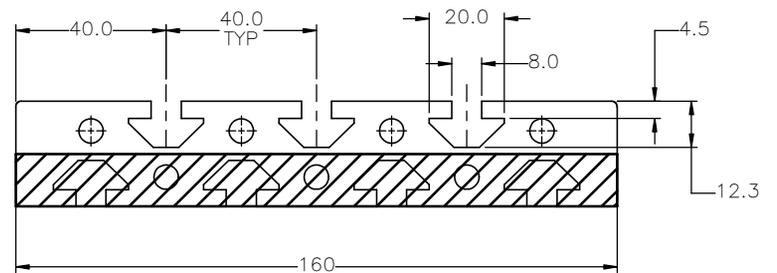
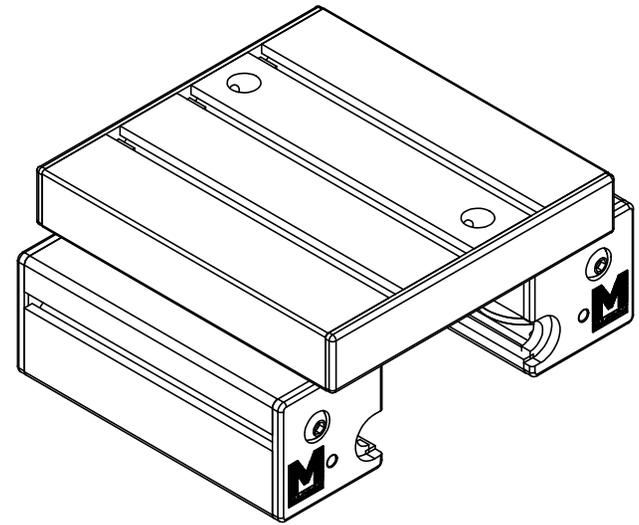
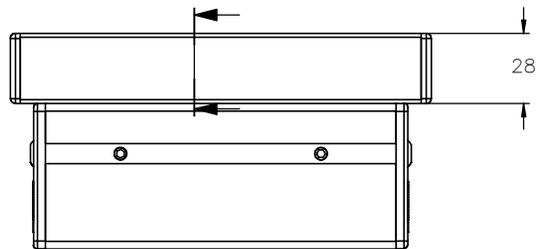
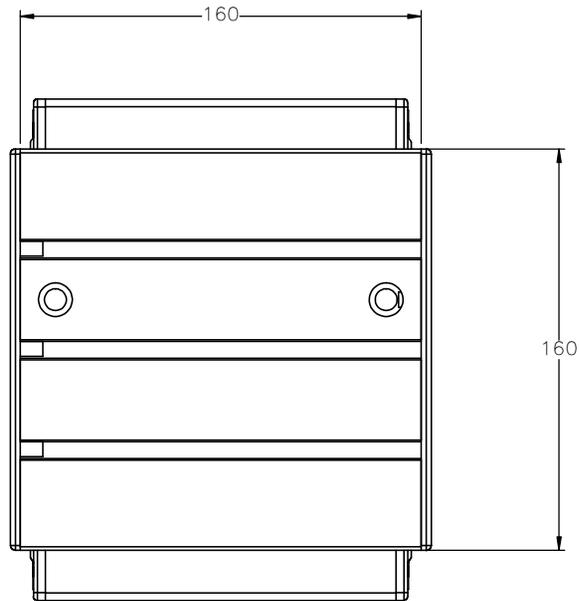


AVAILABLE T-SLOTS

 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017	MATERIAL:	TITLE: MACRON 14S DUAL SYSTEM	
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	LAST SAVED BY: Paul DATE: 8/24/2020	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
	SURFACE FINISH: <input checked="" type="checkbox"/>	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 3 OF 6	PART NUMBER: MDS-14S-X-X-X

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CONSTITUTE LICENSING IN ANY WAY. INFORMATION
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CART MOUNTING FEATURES



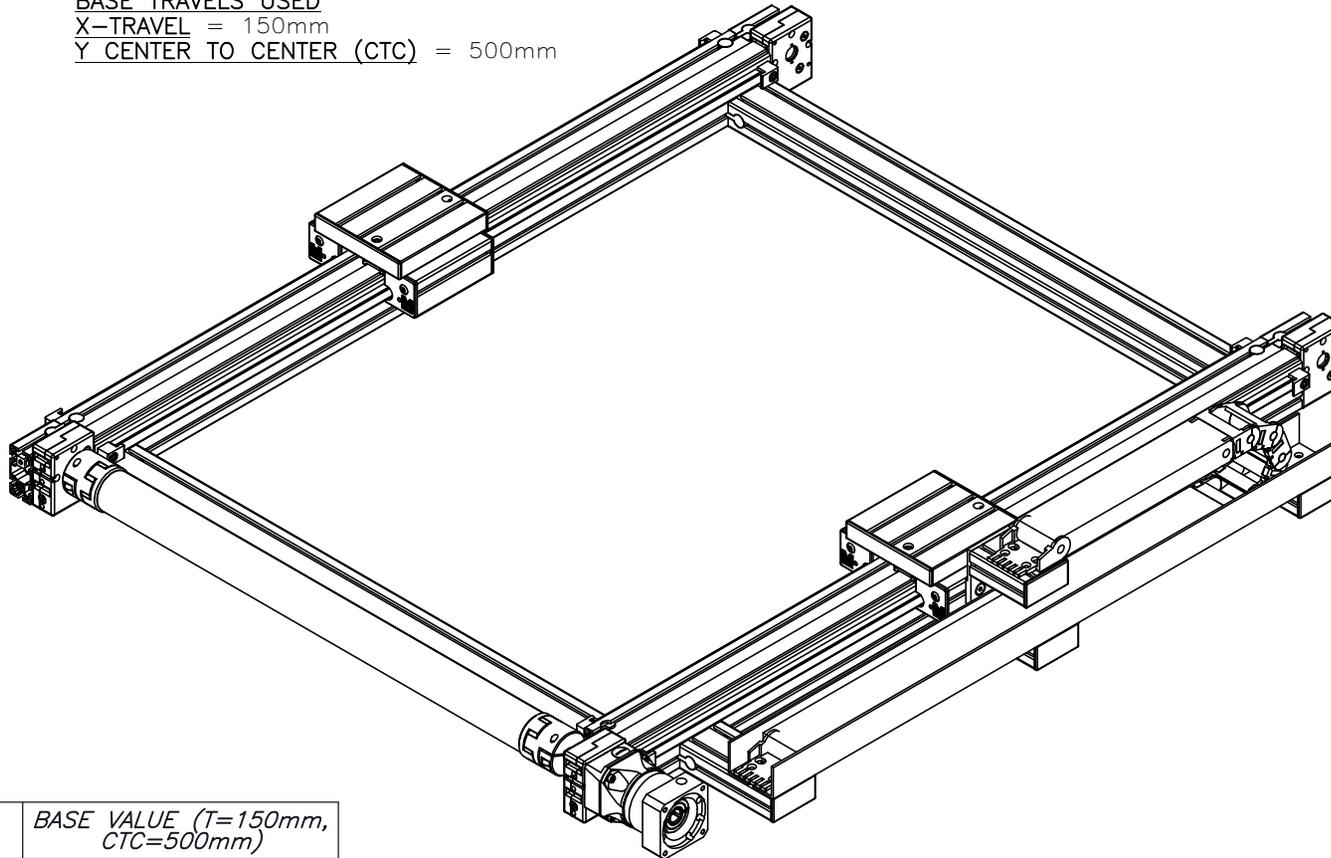
SECTION A-A

 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017	MATERIAL:	TITLE: CSA-14S
	CHECKED BY: DATE: DD/MM/YYYY	FINISH:	SCALE: 1:1 SHEET SIZE: C
	LAST SAVED BY: Paul DATE: 8/24/2020		
	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: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 4 OF 6 PART NUMBER: MDS-14S-X-X-X

MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED
 X-TRAVEL = 150mm
 Y CENTER TO CENTER (CTC) = 500mm



PROPERTY	BASE VALUE (T=150mm, CTC=500mm)
**MOVING MASS	8.154kg(+0.0345kg/25mm)
BELT MASS	0.274kg(+0.012kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
TORQUE TUBE LENGTH	421mm
TORQUE TUBE ϕ	60mm
TORQUE TUBE MASS	1.485kg(+0.036kg/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)	MODEL	MASS (kg)
	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	$(X-TRAVEL \times .0125) + (CTC \times .0069) + 22.02 = \text{kg}$		
 MACRON DYNAMICS INC	DRAWN BY: PHW CHECKED BY: LAST SAVED BY: Paul	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 8/24/2020	MATERIAL: FINISH: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .XX \pm .254 .XXX \pm .127 ANG \pm 0°30'
	TITLE: MACRON 14S DUAL SYSTEM		SCALE: 1:1 SHEET SIZE: C
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SPECIFICATIONS

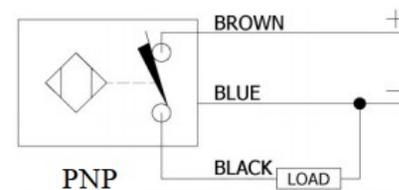
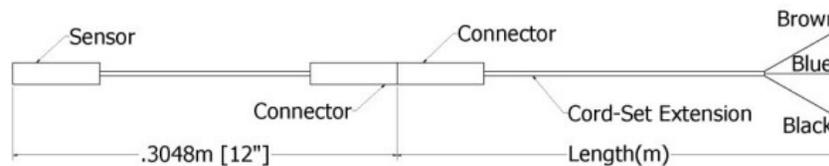
Sensor Type	Inductive
Sensor Size	Fits all 8mm wide T-Slots
Operating Voltage	10-30 VDC
Voltage Drop Across Conducting Sensor	≤1.8 V at 100 mA
Number of Conductors (AWG)	3x26 AWG
Temperature Range	-40°C to 105°C

Part Number Configuration
244- - - - -

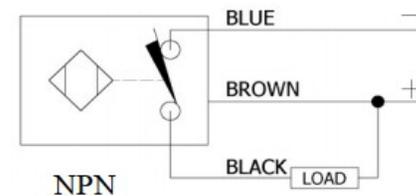
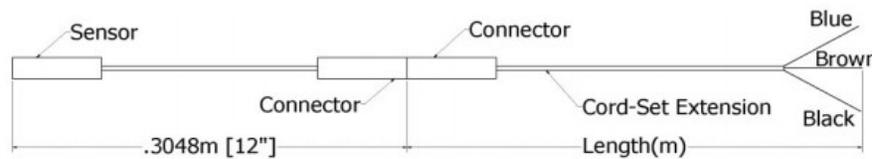
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

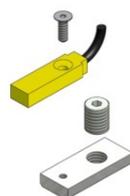
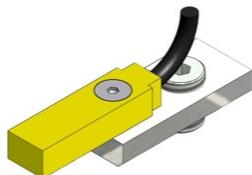
PNP Diagrams



NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



	DRAWN BY: PHW DATE: 11/26/2017 CHECKED BY: DATE: DD/MM/YYYY LAST SAVED BY: Paul DATE: 8/24/2020	MATERIAL:	TITLE:
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	SURFACE FINISH: ✓ BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 6 OF 6 PART NUMBER: MDS-14S-X-X-X	REV: C