

MRA-RTU-2-00-000-

GEARBOX MODEL

VC-T-090-___

RATIO: _____

MOTOR INFORMATION

MANUFACTURER: _____

MODEL: _____

SENSOR INFORMATION X-AXIS:

HOME-QTY ___ 244-___-___-___

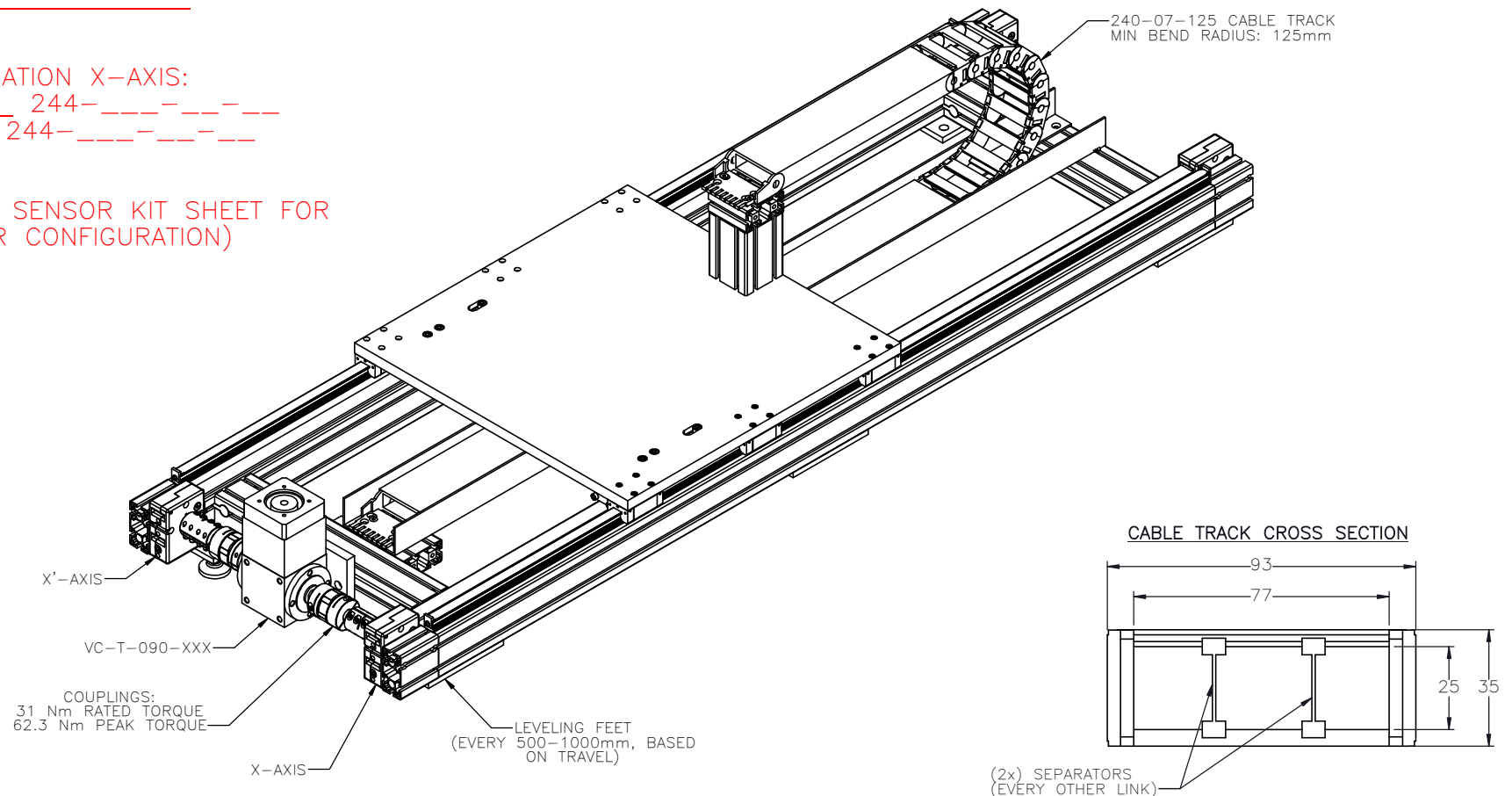
EOT-QTY ___ 244-___-___-___

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

ENTER X-AXIS TRAVEL

TRAVEL IN INCREMENTS OF 250mm
TRAVEL LIMITS: 250mm-5325mm

*IF TRAVEL IS
OUTSIDE LIMITS
LISTED, CONTACT
MACRON*



APPROVED: _____

DATE: _____

PO:REFERENCE#: _____

 MACRON DYNAMICS INC	DRAWN BY: JA	DATE: 2/27/2020	MATERIAL:	TITLE: MACRON RTU SYSTEM	
	CHECKED BY: --	DATE: DD/MM/YYYY	FINISH:		
	LAST SAVED BY: jattia	DATE: 3/18/2020	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS. TOLERANCES, UNLESS NOTED: OTHERWISE: X ± .762 XX ± .254 XXX ± .127 ANG ± 0°30'		SCALE: 1:1
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SURFACE FINISH BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION			PART NUMBER MRA-RTU-2-00-000-XXXXX		

ROBOT MOUNTING BOLT PATTERN
WILL BE PUT IN PLATE WHEN
CUSTOMER PROVIDES A BOLT PATTERN

MOUNTING PLATE
CAN BE REVERSED
TO OUTSIDE OF
ASSEMBLY AS WELL

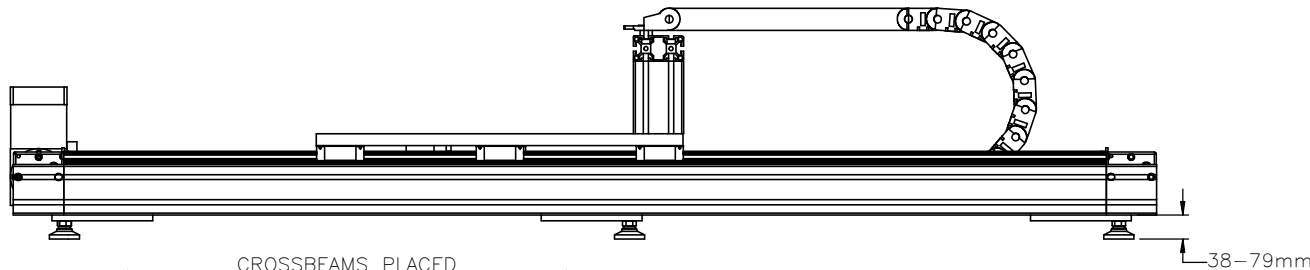
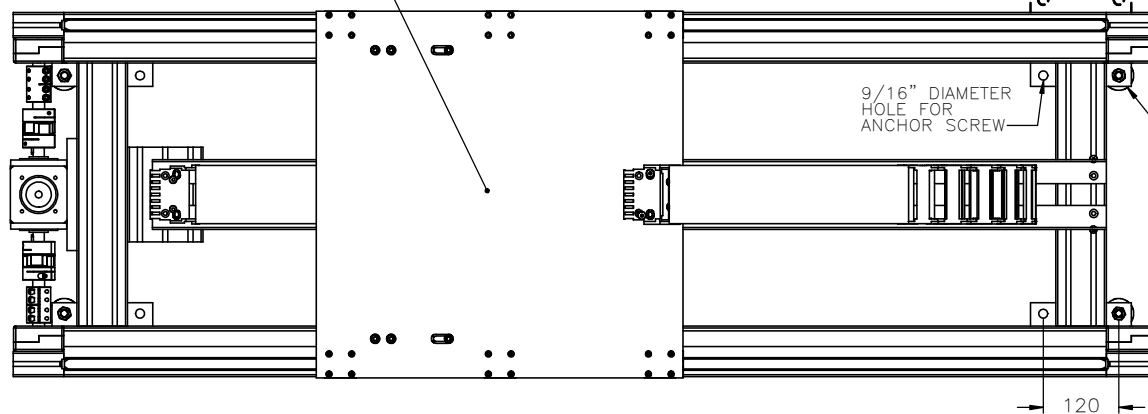
9/16" DIAMETER
HOLE FOR
ANCHOR SCREW

GANTRY MOUNTING FEATURES

MOUNTING PLATES (PRIMARY MOUNTING OPTION)

- 1x LEVELING FOOT PER PLATE (PROVIDED BY MACRON)
- 1x 9/16" DIAMETER THROUGH HOLE PER PLATE FOR ANCHOR SCREW (ANCHOR SCREW NOT PROVIDED BY MACRON)

- MOUNTING PLATES SHOULD BE USED AS PRIMARY MOUNTING
- T-SLOTS AVAILABLE SHOULD BE USED TO MOUNT ACCESSORIES ONTO GANTRY

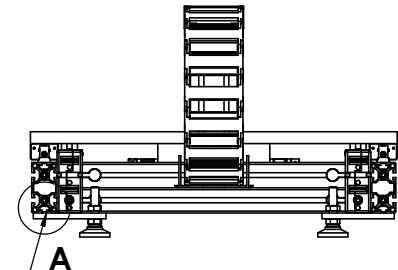


CROSSBEAMS PLACED
EVERY 500-1000mm

2 T-SLOTS OPEN
FOR MOUNTING
(SECONDARY MOUNTING OPTION)

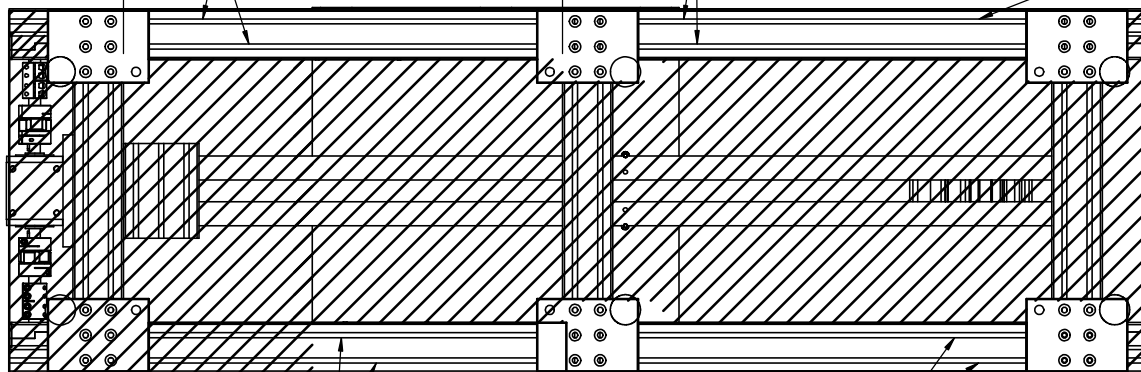
2 T-SLOTS OPEN
FOR MOUNTING
(SECONDARY MOUNTING OPTION)

T-SLOTS ON BOTTOM
OF GANTRY AVAILABLE



DETAIL A

VIEW OF TYPICAL T-SLOT (HEAVY SHADING)
VIEW OF TYPICAL T-NUT (LIGHT SHADING)



2 T-SLOTS OPEN
FOR MOUNTING
(SECONDARY MOUNTING OPTION)

2 T-SLOTS OPEN
FOR MOUNTING
(SECONDARY MOUNTING OPTION)



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UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES UNLESS NOTED
OTHERWISE: .XX ± .03
.XX ± .010
.XXX ± .005
ANG ± 0°30'

SURFACE FINISH 63

BREAK ALL SHARP EDGES
DIMENSIONAL LIMITS APPLY AFTER FINISHING
THIRD ANGLE PROJECTION

MATERIAL:
FINISH:

SHEET

3 OF 5

PART NUMBER

MRA-RTU-2-00-000-XXXX

TITLE:
MACRON RTU
SYSTEM

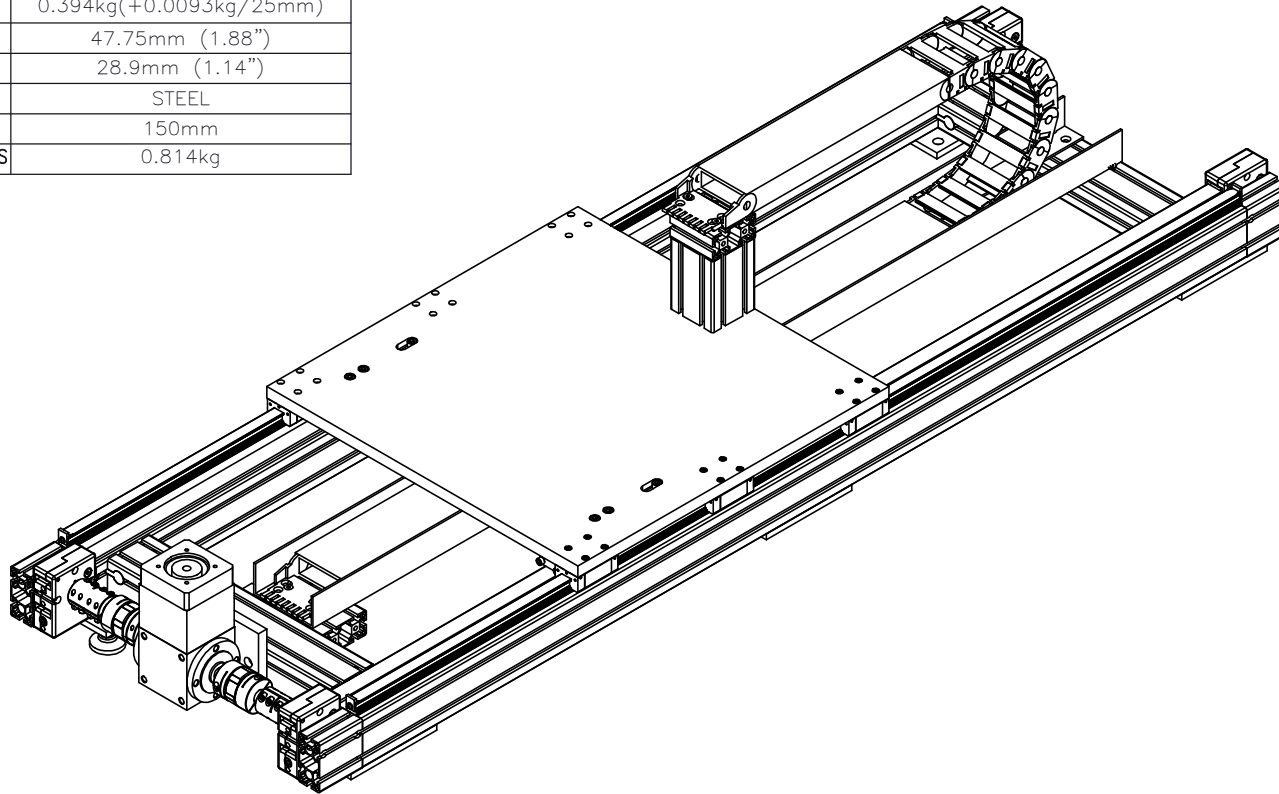
SCALE 1:1 SHEET SIZE C


REV

MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

PROPERTY	BASE VALUE (T=250mm)
MOVING MASS	54.02kg(+0.0253kg/25mm)
BELT MASS	0.394kg(+0.0093kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm
CONN SHAFT MATERIAL MASS	0.814kg



X-AXIS	MOVING MASS	$(\text{TRAVEL} \times 0.001) + 53.77 = \text{kg}$	
	BELT MASS	$[(2 \times \text{TRAVEL}) \times .000186] + 0.301 = \text{kg}$	
 MACRON DYNAMICS INC		DRAWN BY: JA	DATE: 2/27/2020
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		SHEET 4 OF 5	PART NUMBER MRA-RTU-2-00-000-XXXXX SCALE: 1:1 SHEET SIZE: C

TITLE:
MACRON RTU
SYSTEM

REV

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

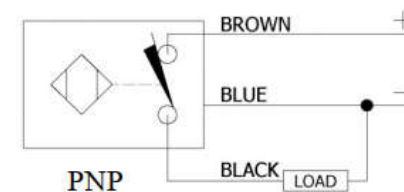
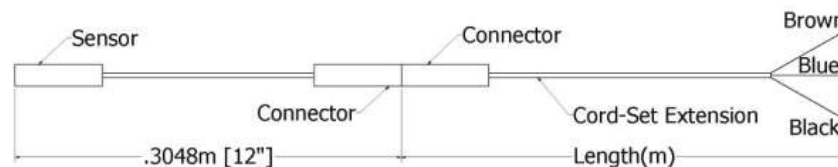
Part Number Configuration

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

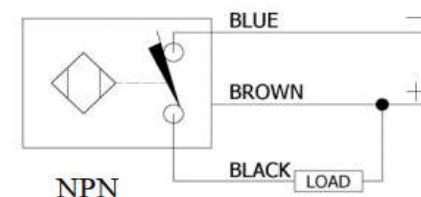
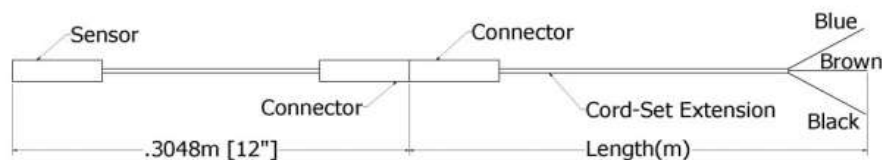
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

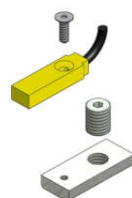
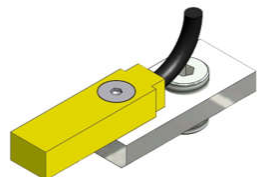
PNP Diagrams




NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



 MACRON DYNAMICS INC	DRAWN BY: JA	DATE: 2/27/2020	MATERIAL:	TITLE: T-SLOT SENSOR KIT
	CHECKED BY: --	DATE: DD/MM/YYYY		
	LAST SAVED BY: JA	DATE: 3/30/2020	FINISH:	
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	BREAK ALL SHARP EDGES		5 OF 5	
	DIMENSIONAL LIMITS APPLY AFTER FINISHING		PART NUMBER	
	THIRD ANGLE PROJECTION		SENSOR CALL-OUT	
			REV	