

GEARBOX MODEL (X-AXIS)
 MPG-014 _____
 MRG-014 _____
 RATIO: _____

GEARBOX MODEL (Y-AXIS)
 MPG-014 _____
 MRG-014 _____
 RATIO: _____

FOR DIRECT-DRIVE OPTION WITH MMKs
 (NO GEARBOXES) CHECK HERE: _____

MOTOR INFORMATION (X-AXIS)
 MANUFACTURER: _____
 MODEL: _____

MOTOR INFORMATION (Y-AXIS)
 MANUFACTURER: _____
 MODEL: _____

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

SENSOR INFORMATION Y-AXIS:
 HOME-QTY ___ 244-____-____-____
 EOT-QTY ___ 244-____-____-____

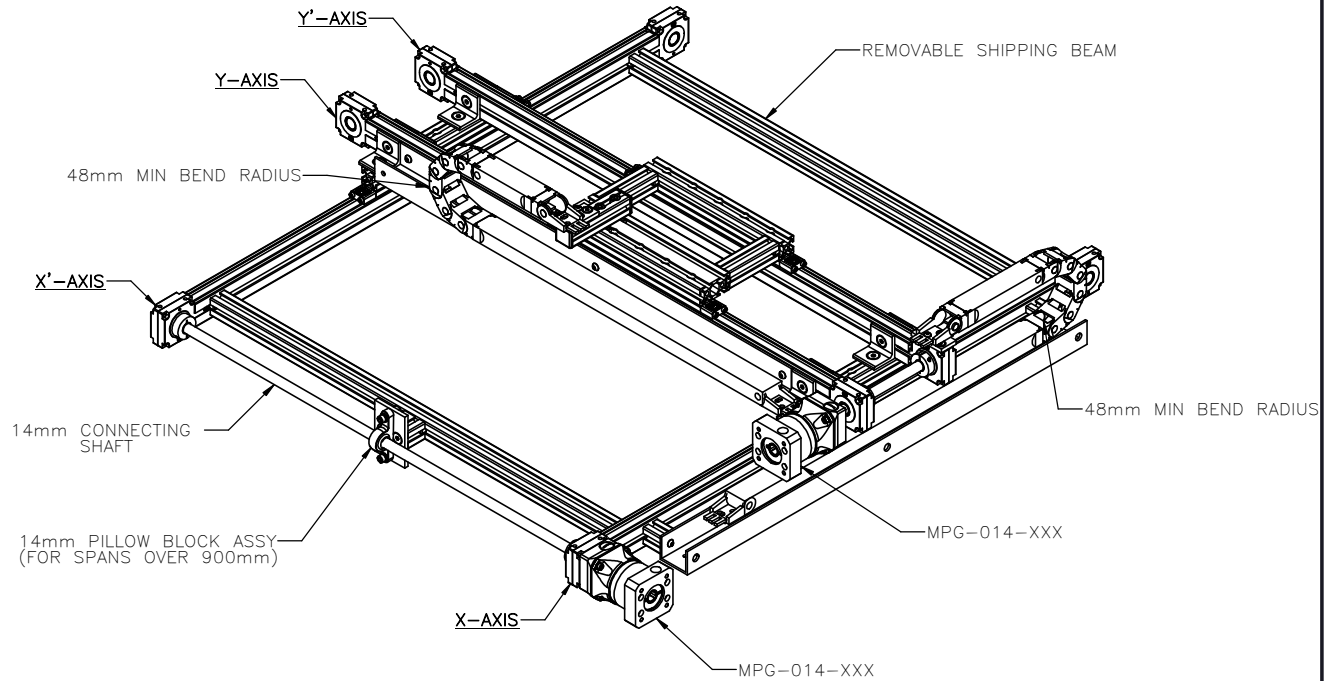
(SEE T-SLOT SENSOR KIT SHEET FOR
 PART NUMBER CONFIGURATION)

MGS-PSC- [] - []

ENTER Y-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL 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: _____

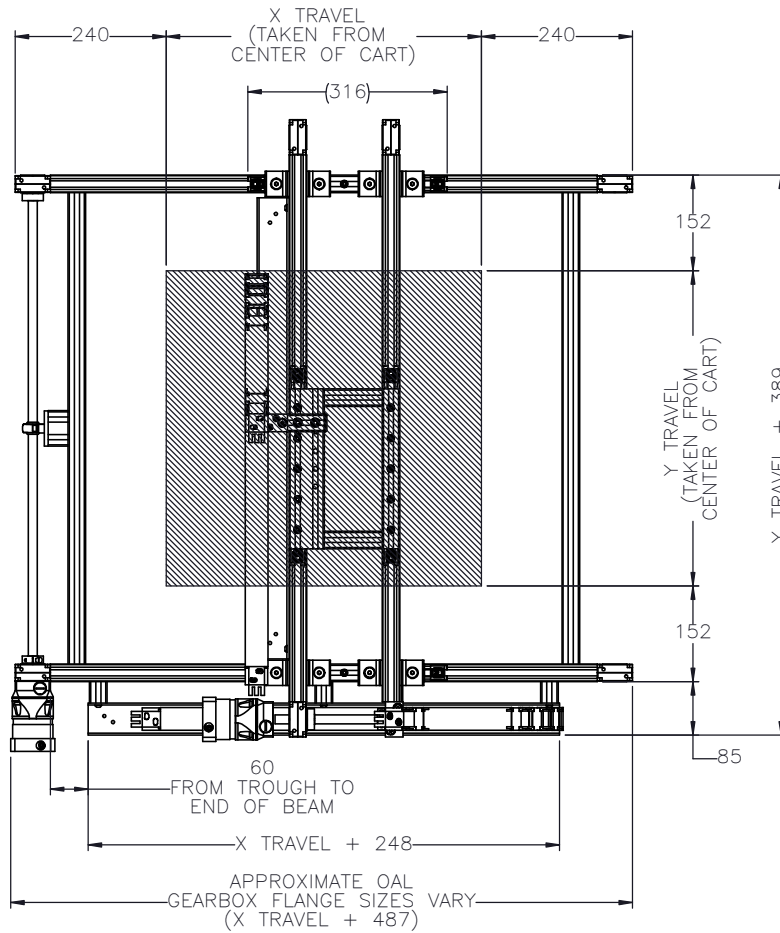
DATE: _____

PO:REFERENCE#: _____

Sold & Serviced By:
 **ELECTROMATE**
 Toll Free Phone (877) SERV098
 www.electromate.com
 sales@electromate.com

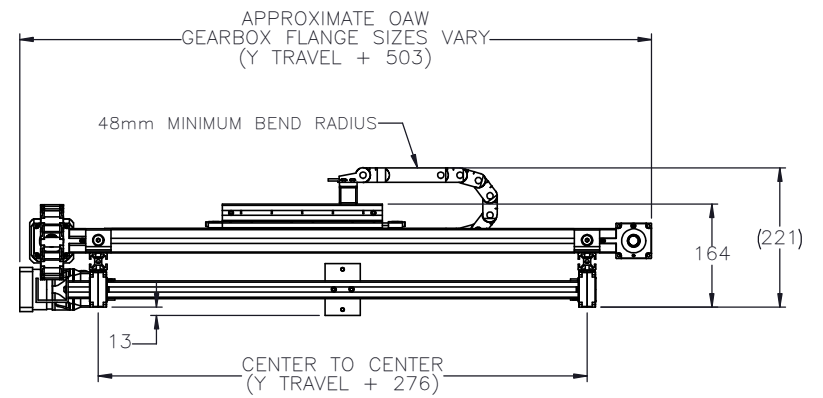
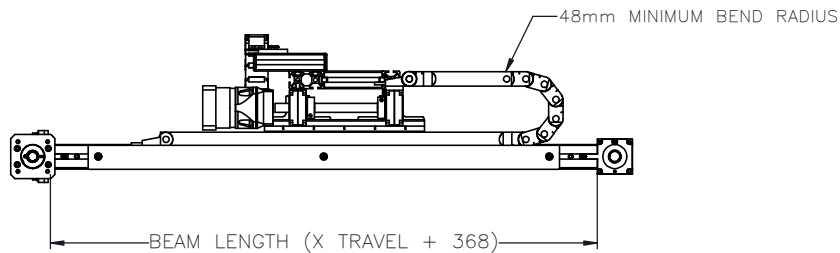
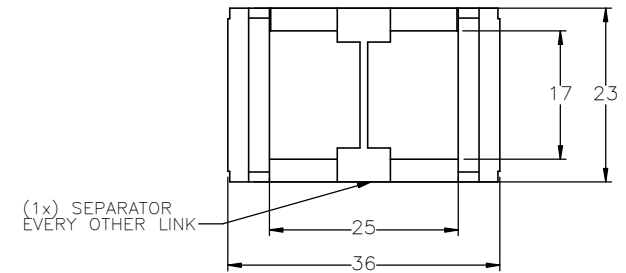
 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: Paul DATE: 10/8/2020	MATERIAL:	TITLE: MACRON PSC GANTRY SYSTEM
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED: .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	
THIS DRAWING 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.	SURFACE FINISH ✓ BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET 1 OF 6	PART NUMBER MGS-PSC-XX-YY
		SCALE: 1:1	SHEET SIZE: C

WORK ENVELOPE AND GANTRY FOOTPRINT




****ALL X-TRAVEL DIMENSIONS GIVEN ARE BASED ON THE CUSTOMER REMOVAL OF REMOVABLE SHIPPING BEAMS****

CABLE TRACK CROSS SECTION



Sold & Serviced By:

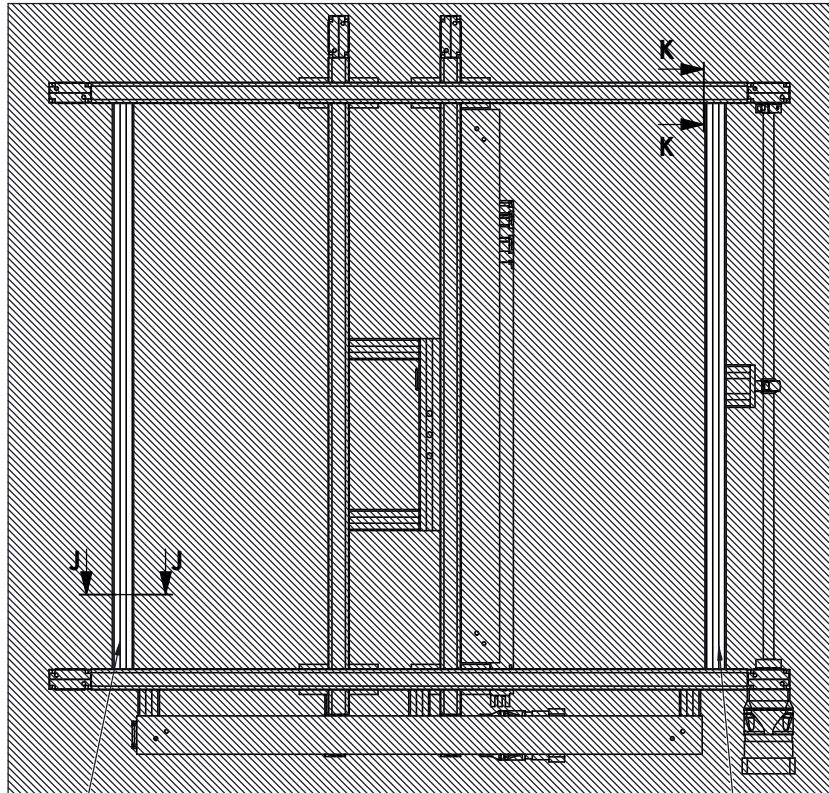
 Toll Free Phone (877) SERV098
www.electromate.com
sales@electromate.com

 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017	MATERIAL:	TITLE:
	CHECKED BY: --- DATE: DD/MM/YYYY	FINISH:	SCALE: 1:1 SHEET SIZE: C
	LAST SAVED BY: Paul DATE: 10/8/2020		
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:	.XX ± .254 .XXX ± .127 ANG ± 0°30'	SHEET: 2 OF 6 PART NUMBER: B15 CROSS SECTION

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.

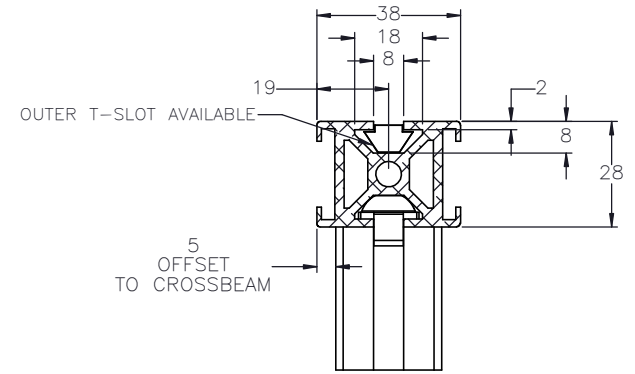
SURFACE FINISH ✓
 BREAK ALL SHARP EDGES
 DIMENSIONAL LIMITS APPLY AFTER FINISHING
THIRD ANGLE PROJECTION

GANTRY MOUNTING FEATURES

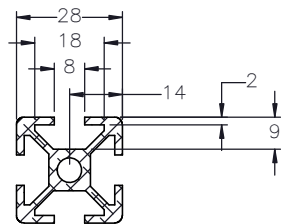


(1X) T-SLOT AVAILABLE
IF BEAM IS NOT REMOVED

(1X) T-SLOT AVAILABLE




SECTION K-K



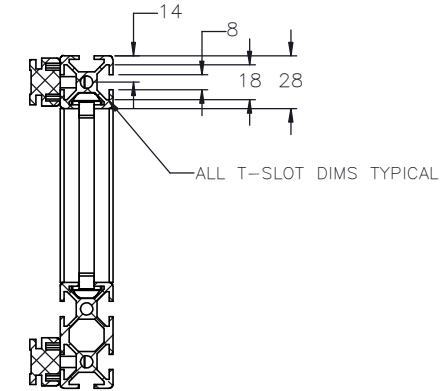
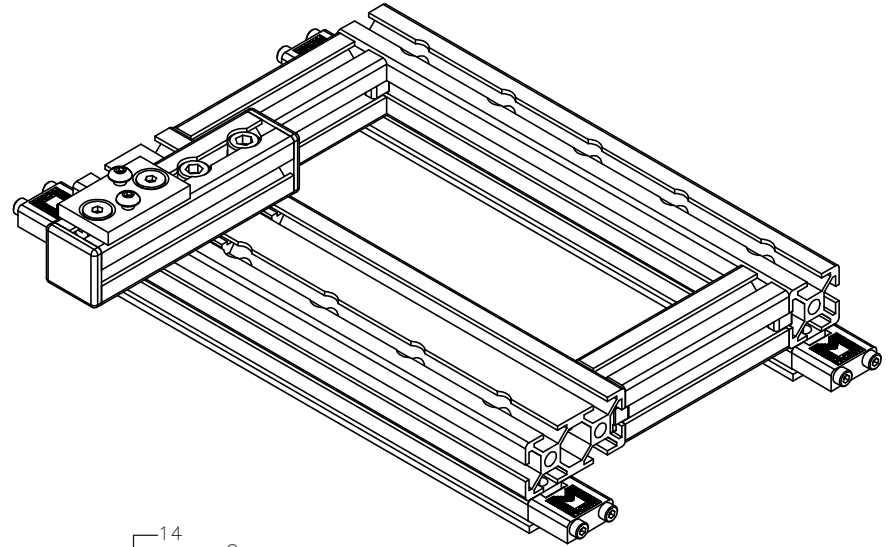
SECTION J-J
CROSSBEAM T-SLOT

Sold & Serviced By:
 **ELECTROMATE**
 Toll Free Phone (877) SERV098
www.electromate.com
sales@electromate.com

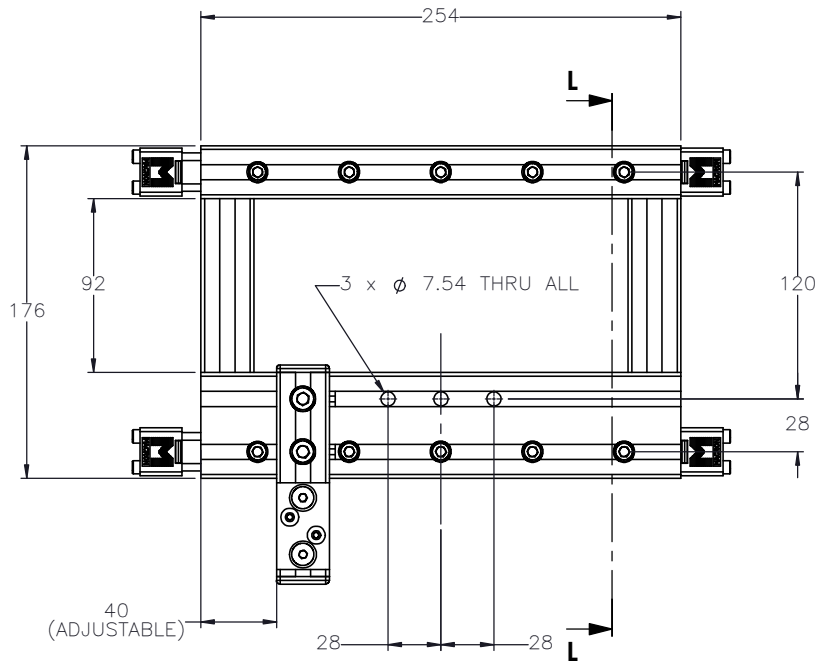
 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017 CHECKED BY: --- DATE: DD/MM/YYYY LAST SAVED BY: Paul DATE: 10/8/2020	MATERIAL:	TITLE:
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED: .XX ± .254 .XXX ± .127 OTHERWISE: ANG ± 0°30'	FINISH:	MACRON PSC GANTRY SYSTEM
	SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 3 OF 6 PART NUMBER: MGS-PSC-XX-YY	SCALE: 1:1

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.


CART MOUNTING FEATURES



SECTION L-L



Sold & Serviced By:
 **ELECTROMATE**
 Toll Free Phone (877) SERV098
www.electromate.com
sales@electromate.com

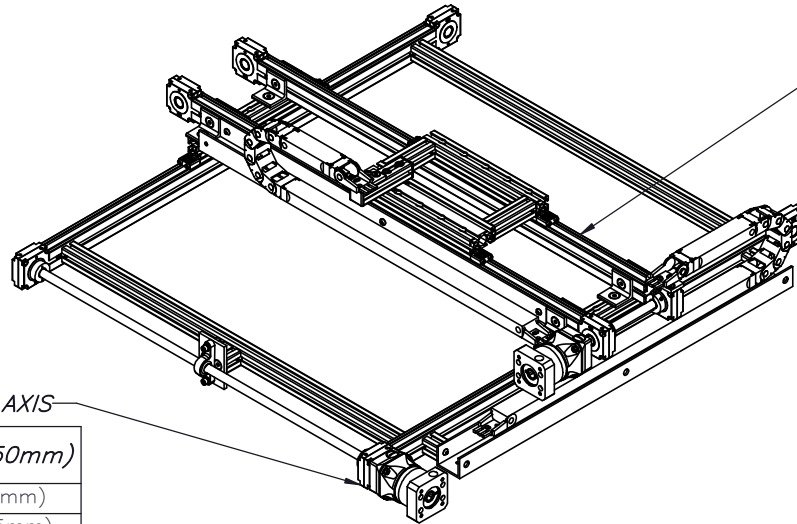
 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017	MATERIAL:	TITLE:
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	SCALE: 1:1 SHEET SIZE: C
	LAST SAVED BY: Paul DATE: 10/8/2020		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES, UNLESS NOTED OTHERWISE:			
.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'			
SURFACE FINISH <input checked="" type="checkbox"/>			
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		SHEET: 4 OF 6	PART NUMBER: Y CART ASSEMBLY

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.

MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED:
 X-TRAVEL = 150mm
 Y-TRAVEL = 500mm



Y AXIS

PROPERTY	BASE VALUE (T=500mm)
MOVING MASS	1.658kg(+0.01kg/25mm)
BELT MASS	0.135kg(+0.004kg/25mm)
SYSTEM MASS	6.338kg(+0.0952kg/25mm)
PULLEY PITCH ϕ	33.42mm (1.32")
PULLEY WIDTH	16.3mm (0.64")
PULLEY MATERIAL	STEEL

X AXIS

PROPERTY	BASE VALUE (T=150mm)
*MOVING MASS	.961kg(+0.01kg/25mm)
BELT MASS	0.135kg(+0.004kg/25mm)
PULLEY PITCH ϕ	33.42mm (1.32")
PULLEY WIDTH	16.3mm (0.64")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	105mm
**CONN. SHAFT LENGTH	826
CONN. SHAFT ϕ	14mm
**CONN. SHAFT MASS	.979kg(+0.029kg/25mm)
CONN. SHAFT MATERIAL	STEEL

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

**BASE VALUE AT Y TRAVEL = 500mm

X-TRAVEL = _____ mm
 Y-TRAVEL = _____ mm

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

GEARBOX MASS (ADD TO SYSTEM MASSES)	MPG-014	1.0kg
	MRG-014	3.0kg

TOTAL SYSTEM MASS	$(X \text{ TRAVEL} \times .0038) + (Y \text{ TRAVEL} \times .0054) + 11.24 = \text{kg}$		
	DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:
	CHECKED BY: ---	DATE: DD/MM/YYYY	
	LAST SAVED BY: Paul	DATE: 10/8/2020	FINISH:
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .XX \pm .254, .XXX \pm .127, ANG \pm 0°30'		
MACRON DYNAMICS INC	SURFACE FINISH	<input checked="" type="checkbox"/>	
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		
	SHEET	PART NUMBER	REV
	5 OF 6	MGS-PSC-XX-YY	
	SCALE 1:1	SHEET SIZE	C

Sold & Serviced By:

 Toll Free Phone (877) SERV098
www.electromate.com
sales@electromate.com

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

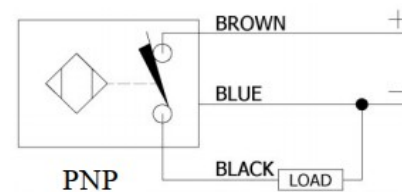
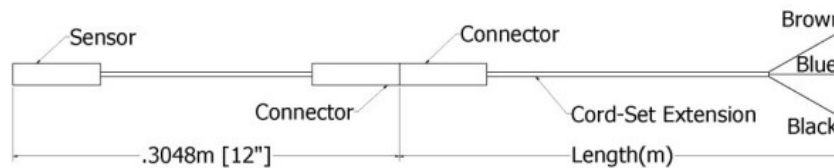
Part Number Configuration

244- - - - -

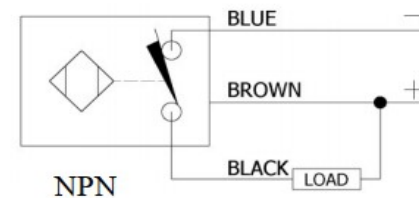
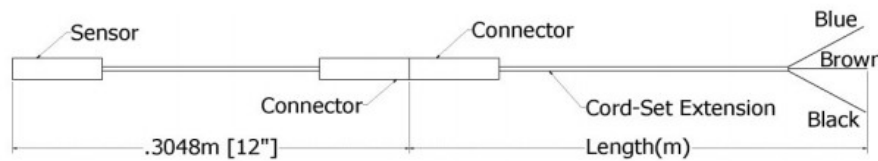
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

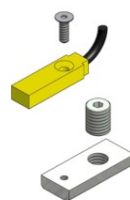
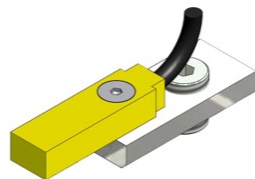
PNP Diagrams



NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



<p>MACRON DYNAMICS INC</p>	DRAWN BY: JA DATE: 10/15/2019 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: JA DATE: 10/8/2020	MATERIAL:	TITLE:
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:	FINISH:	T-SLOT SENSOR KIT
	SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING	SHEET: 6 OF 6 PART NUMBER: SENSOR CALL-OUT	SCALE: 1:1 SHEET SIZE: C
	THIRD ANGLE PROJECTION	REV:	