GEARBOX MODEL (X-AXIS) MPG-014 MRG-014 RATIO: GEARBOX MODEL (Y-AXIS) MPG-014 MRG-014 RATIO:	MCS-PSC	ENTER Z-AXIS TRAVEL TRAVEL IN INCREMENTS OF 100mm TRAVEL LIMITS: 100mm-400mm ENTER Y-AXIS TRAVEL TRAVEL IN INCREMENTS OF 25mm
FOR DIRECT—DRIVE OPTION WITH MI (NO GEARBOXES) CHECK HERE:		TRAVEL LIMITS: 500mm-1000mm ENTER X-AXIS TRAVEL TRAVEL IN INCREMENTS: OF 25 mms
MOTOR INFORMATION (X-AXIS) MANUFACTURER: MODEL:		TRAVEL IN INCREMENTS OF 25mm TRAVEL LIMITS: 150mm-5575mm
MOTOR INFORMATION (Y-AXIS) MANUFACTURER: MODEL:	Y'-AXIS— Y-AXIS—	REMOVABLE CROSS BEAM
MOTOR INFORMATION (Z-AXIS) MANUFACTURER: MODEL: (*Z AXIS IS DIRECT-DRIVEN)	48MM MIN BEND RADIUS	
SENSOR INFORMATION X-AXIS: HOME-QTY 244 EOT-QTY 244 SENSOR INFORMATION Y-AXIS: HOME-QTY 244 EOT-QTY 244		48mm MIN BEND RADIUS
SENSOR INFORMATION Z-AXIS: HOME-QTY 244 EOT-QTY 244	14mm PILLOW BLOCK ASSY— (FOR SPANS OVER 900mm)	MPG-014-XXX
(SEE T-SLOT SENSOR KIT SHEET PART NUMBER CONFIGURATION)	I FUK	X-AXIS—MPG-014-XXX

APPROVED:

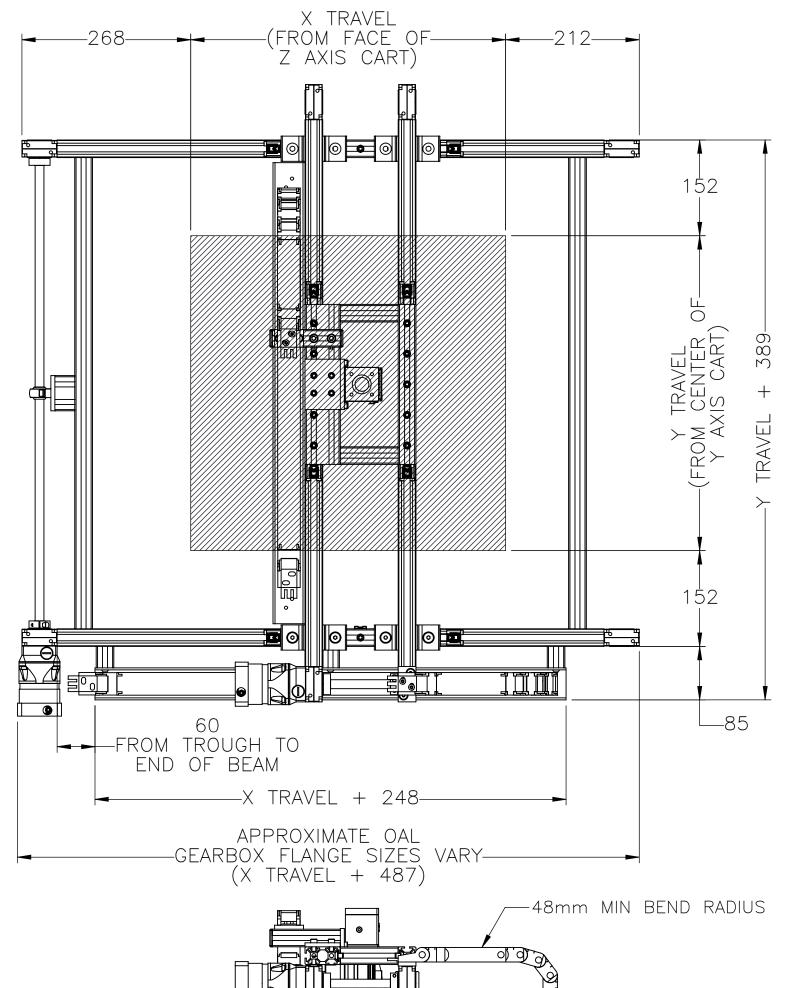
DATE: _____

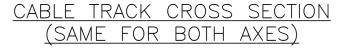
PO:REFERENCE#: _____

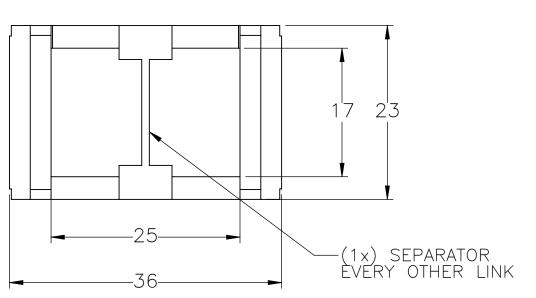
MACRON DYNAMICS INC

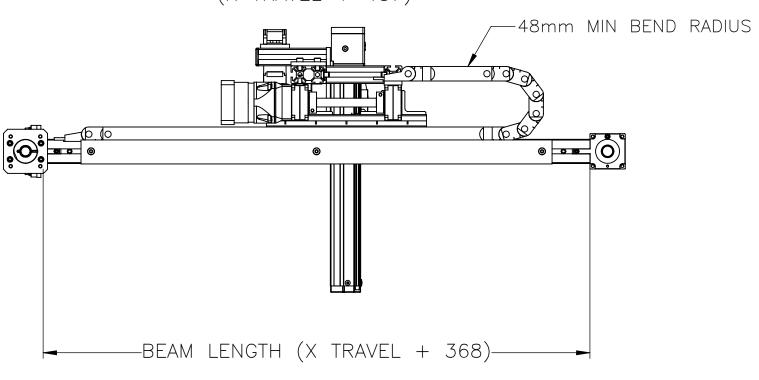
DRAWN BY:	PHW	DATE:	11/26	5/2017	MATER	RIAL:			TITLE:	D.O.O.	
CHECKED BY:		DATE:	DD/MN	M/YYYY					MACRON GANTRY		
LAST SAVED BY:	TH	DATE:	5/11	/2021					GANTRI	2121EM	
DIMENSIONS ARE TOLERANCES		TERŚ.	.X ± .XX ± .XXX ± ANG ±	.762 .254 .127 0°30'	FINISH	l:					
SURFA	CE FIN	ISH	63/	,					SCALE 1:1	SHEET SIZE	
BRE DIMENSIONAL			P EDGES AFTER	; FINISHING	SHEET 1	ΟF	6	PART NUMBER	$C-XX-YY-\overline{Z}$		REV
THIRD	ANGLE	PR	OJECTI	ON	'	01		1000 100	<i>/</i> /// 2	JONEW	

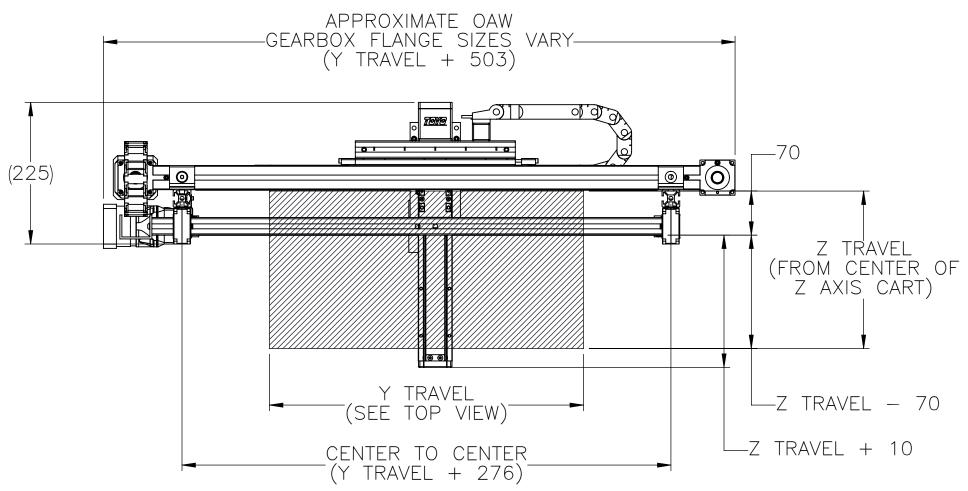
WORK ENVELOPE AND GANTRY FOOTPRINT





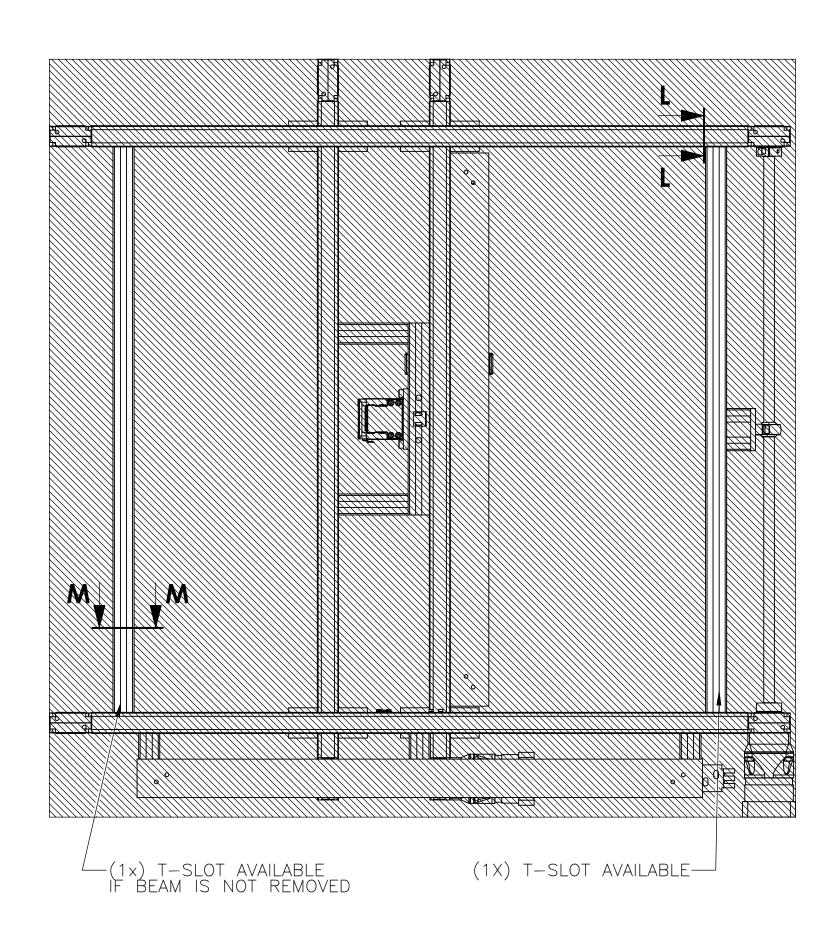


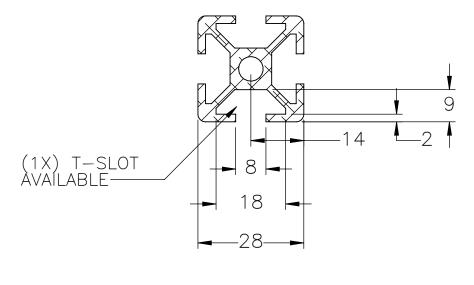




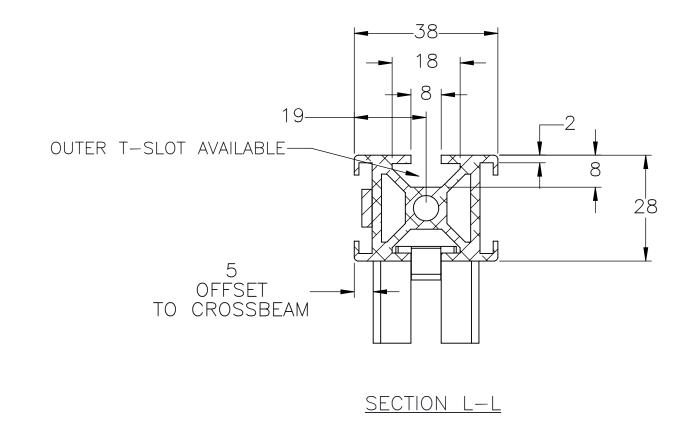
	DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:	TITLE:
=	CHECKED BY: — —	DATE: DD/MM/YYYY		
	LAST SAVED BY: TH	DATE: 5/11/2021		
MACRON	UNLESS OTHERWISE SPEC	.X ± .762	FINISH:	
MACRON DYNAMICS INC	DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	OTED .XXX ± .127 ANG ± 0°30'		
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS.	SURFACE FIN	ISH 63	CUEET DADT NU	SCALE 1:1 SHEET SIZE C
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		SHARP EDGES APPLY AFTER FINISHING	SHEET PART NU 2 OF 6 MCS-	PSC-XX-YY-Z SCREW
CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION		1 30 MM II Z 30NLW

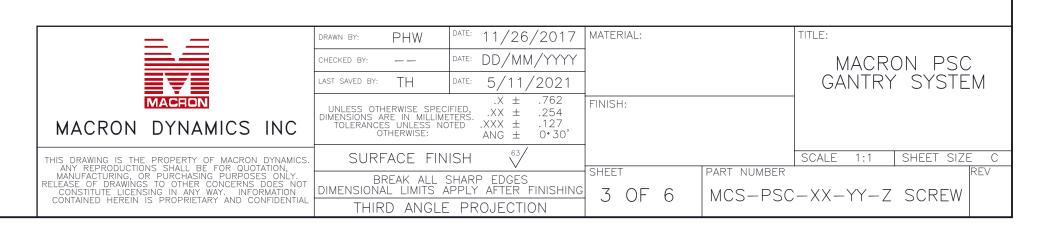
GANTRY MOUNTING FEATURES





SECTION M-M CROSSBEAM T-SLOT





REVISION HISTORY REV. **DESCRIPTION** DATE REVISED BY:

GTH5-L --BC-M10B-

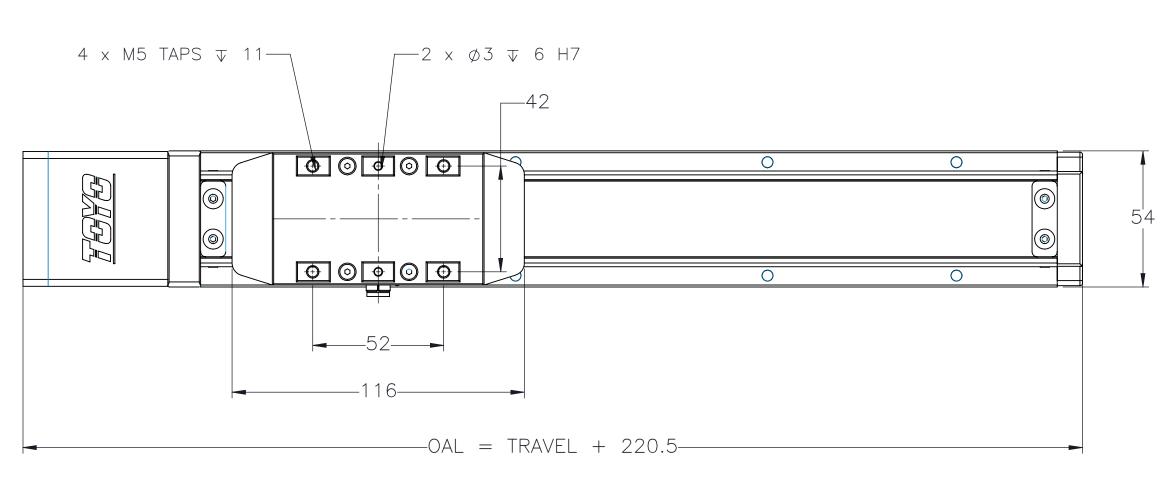
C3 = 1 HOME, 1 LIMIT SENSOR C4 = 1 HOME, 2 LIMIT SENSOR E5 = NO SENSORS SENSOR CODE

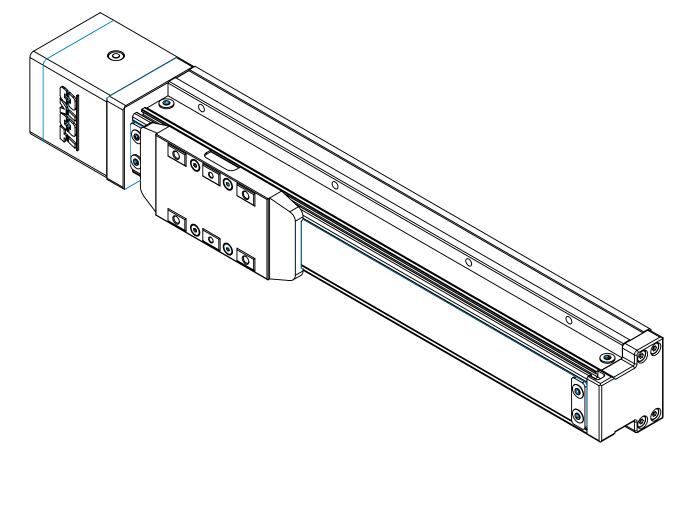
MOTOR CODE

MOTOR POSITION UP

STROKE/TRAVEL (100mm, 200mm, 300mm, 400mm)

BALL SCREW LEAD (5mm, 10mm, 20mm)





MOTOR INFORMATION (Z-AXIS)

MANUFACTURER:_____MODEL:____

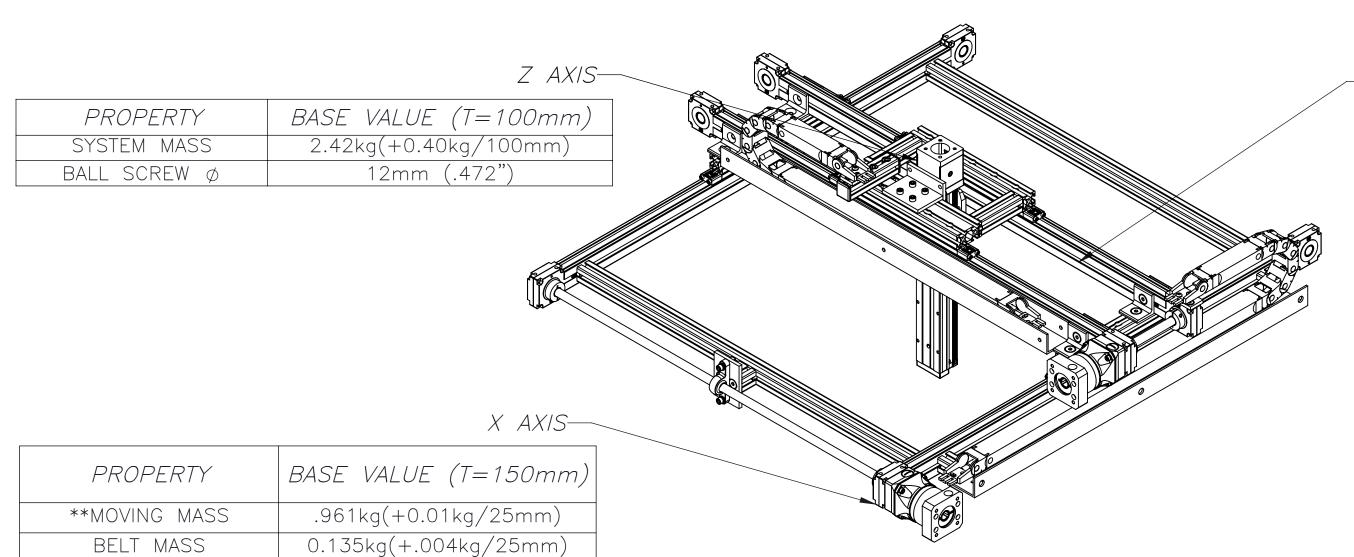
MACRON	
MACRON DYNAMICS IN	10
THIS DRAWING IS THE PROPERTY OF MACRON DYN	

<u> </u>	drawn by: JA	DATE: 10/15/2019	MATERIAL:		TITLE:
	CHECKED BY: ——	DATE: DD/MM/YYYY			
▎ ■▼■	LAST SAVED BY: TH	DATE: 5/11/2021			SCREW TABLE
MACHON	UNLESS OTHERWISE SPECI	$.X \pm .762$	FINISH:		SELECTION SHEET
MACRON DYNAMICS INC	UNLESS OTHERWISE SPECI DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	TED .XXX ± .127 ANG ± 0°30'			
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS.	SURFACE FIN	ISH 63/		ADT NUMBER	SCALE 1:1 SHEET SIZE C
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 S DIMENSIONAL LIMITS A	SHARP EDGES PPLY AFTER FINISHING		art number S	CREW TABLE
CONTAINED HEREIN IS PROPRIETART AND CONFIDENTIAL	THIRD ANGLE	PROJECTION			

MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED: X-TRAVEL = 150mm Y-TRAVEL = 500mm Z-TRAVEL = 100mm



\vee	AXIS
— /	ANIS

PROPERTY	BASE VALUE (T=500mm)
*MOVING MASS	1.959kg(+0.01kg/25mm)
BELT MASS	0.135kg(+0.004kg/25mm)
*SYSTEM MASS	6.639kg(+0.0952kg/25mm)
PULLEY PITCH Ø	33.42mm (1.32")
PULLEY WIDTH	16.3mm (0.64")
PULLEY MATERIAL	STEEL

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

TRAVEL PER REV

***CONN. SHAFT LENGTH

CONN. SHAFT Ø

***CONN. SHAFT MASS

CONN. SHAFT MASS

.979kg(+.029kg/25mm)

STEEL

PULLEY PITCH Ø

PULLEY WIDTH

PULLEY MATERIAL

33.42mm (1.32")

16.3mm (0.64")

STEEL

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

***BASE VALUE AT Y TRAVEL = 500mm

X-TRAVEL	=	mm
Y-TRAVEL	=	mm
7-TRAVFI	=	mm

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

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

SYSTEM MASS $(X TRAVEL \times .0038) + (Y TRAVEL \times .0054) + (Z TRAVEL \times .004) + 13.59 = kg$

DATE: 11/26/2017 MATERIAL:



INC	UNLES DIMENSI TOLE

IS THE PROPERTY OF MACRON DYNAMICS.
DUCTIONS SHALL BE FOR QUOTATION,
INC, OR PURCHASING PURPOSES ONLY.
AWINGS TO OTHER CONCERNS DOES NOT
LICENSING IN ANY MAY. INFORMATION
EREIN IS PROPRIETARY AND CONFIDENTIAL

HECKED BY: — —	DATE:	DD/M	IM/YYYY	
ST SAVED BY: TH	DATE:	5/11	1/2021	
UNLESS OTHERWISE SPECI IMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	TERŚ.	.XX ±	.762 .254 .127 0°30'	FINISH
SURFACE FIN	ISH	63	/	

MACRON PSC GANTRY SYSTEM

SURFACE FINISH 53 SCALE 1:1 SHEET SIZE C

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

SCALE 1:1 SHEET SIZE C

SHEET

MCS-PSC-XX-YY-Z SCREW

SPECIFICATIONS

Sensor Type	Inductive
Concor Cizo	Fits all 8mm
Sensor Size	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

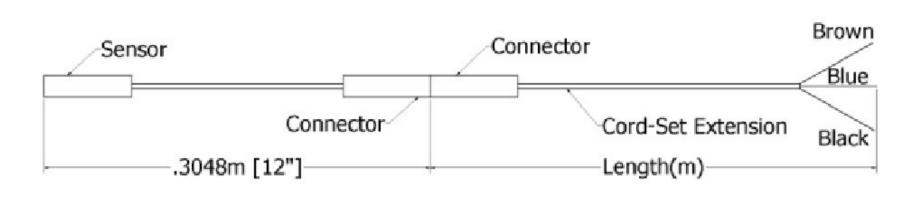
Part Number Configuration

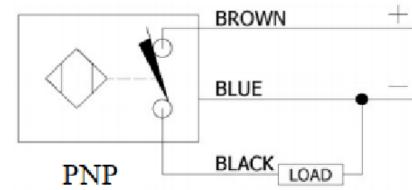
244-_ _ -_ _

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

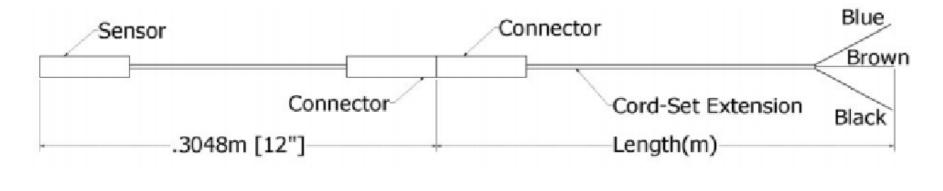
Example: PNP, normally closed, cord-set extension length 6 meters = 244-PNP-NC-06

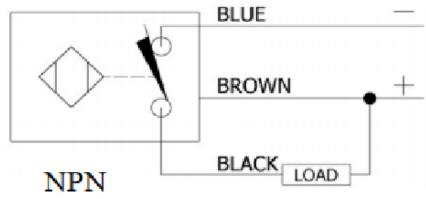
PNP Diagrams

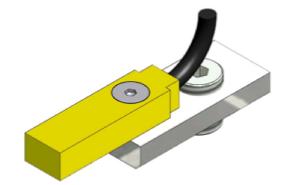




NPN Diagrams









KIT INCLUDES - SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE

<u> </u>	DRAWN BY: JA	DATE: 10/15/2019	MATERIAL:		TITLE:	
	CHECKED BY: — —	DATE: DD/MM/YYYY			T-SLOT	SENSOR
	LAST SAVED BY: TH	DATE: 5/11/2021			KIT	
MACHON	UNLESS OTHERWISE SPECIFIED, .XX ± .762		FINISH:			
MACRON DYNAMICS INC	DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	LIERS.				
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING, OR PURCHASING PURPOSES ONLY.	SURFACE FIN	ISH 63			SCALE 1:1	SHEET SIZE C
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	DIMENSIONAL LIMITS A	PPLY AFTER FINISHING		PART NUMBER SENS	SOR CALL—C)UT
CONTINUES THE REAL TO THE PARTY AND CONTINUES THE	THIRD ANGLE	PROJECTION				