

GEARBOX MODEL

MPG-064 ___ MPG-084 ___
 MRG-064 ___ MRG-084 ___
 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-____-____-____

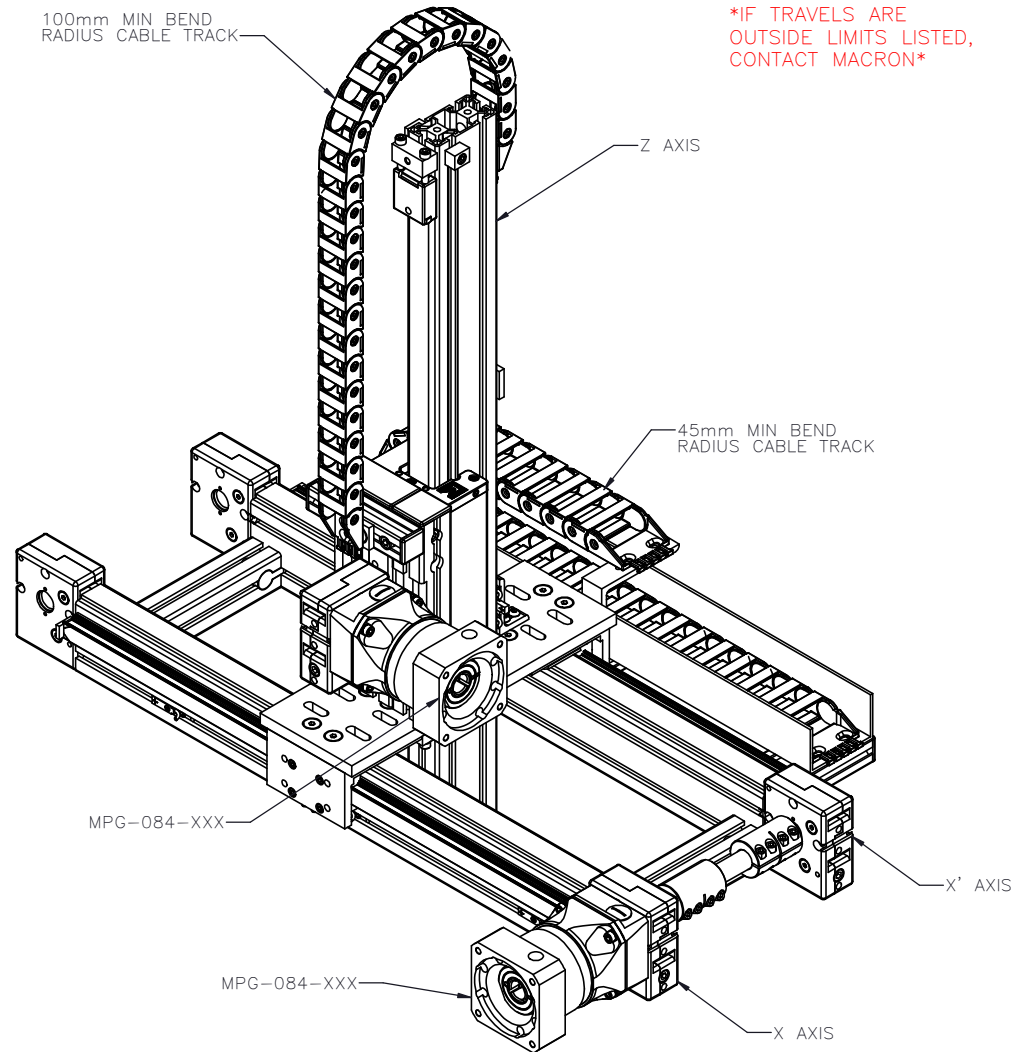
(SEE T-SLOT SENSOR KIT SHEET FOR PART NUMBER CONFIGURATION)

MGS-R6Y- [] - X - []

ENTER Z-AXIS TRAVEL
 CENTER TO CENTER IN INCREMENTS OF 25mm
 LIMITS: 500mm-2950mm

ENTER X-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-5775mm

IF TRAVELS ARE OUTSIDE LIMITS LISTED, CONTACT MACRON




APPROVED: _____

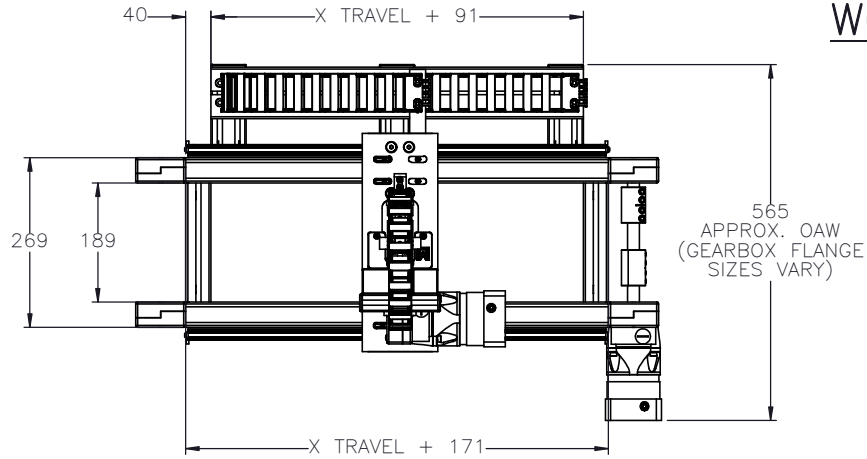
SIGN & PRINT

DATE: _____

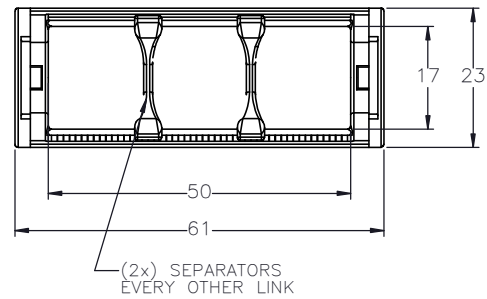
PO:REFERENCE#: _____

 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 9/6/2023	MATERIAL:	TITLE: MACRON R6Y YZ GANTRY
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: awong DATE: 9/8/2023	UNLESS OTHERWISE SPECIFIED: .X ± .762 DIMENSIONS ARE IN MILLIMETERS: .XX ± .254 TOLERANCES UNLESS NOTED: .XXX ± .127 OTHERWISE: 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: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 1 OF 5 PART NUMBER: MGS-R6Y-X-X	SCALE: 1:1 SHEET SIZE: C

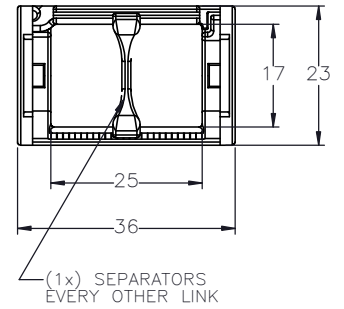
WORK ENVELOPE AND GANTRY FOOTPRINT



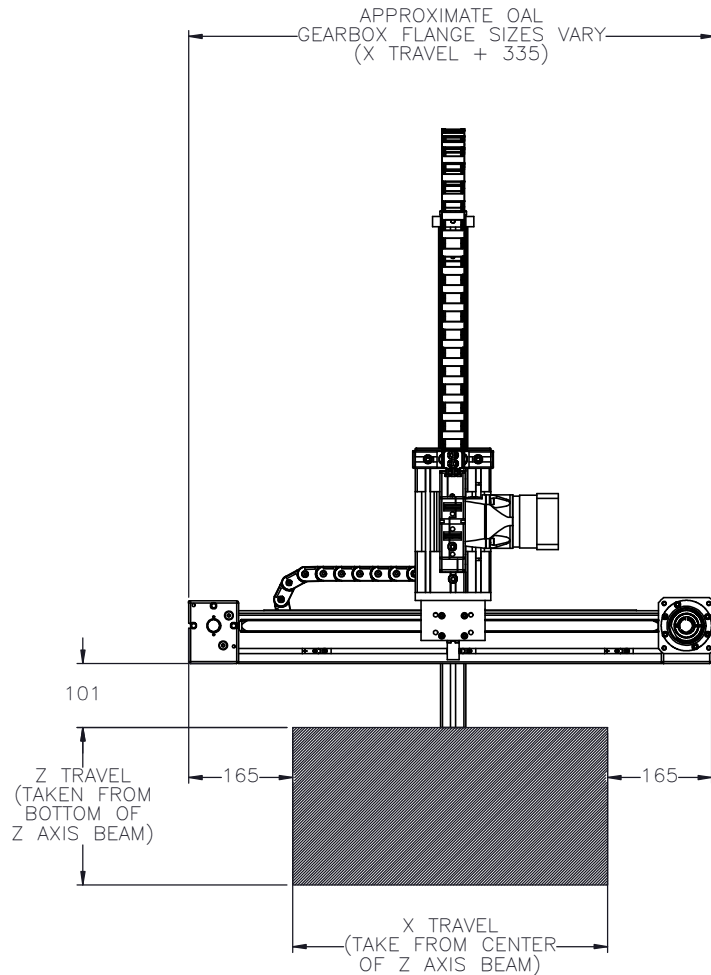
X AXIS CABLE TRACK CROSS SECTION



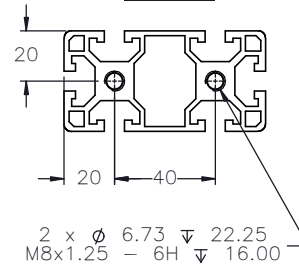
Z AXIS CABLE TRACK CROSS SECTION



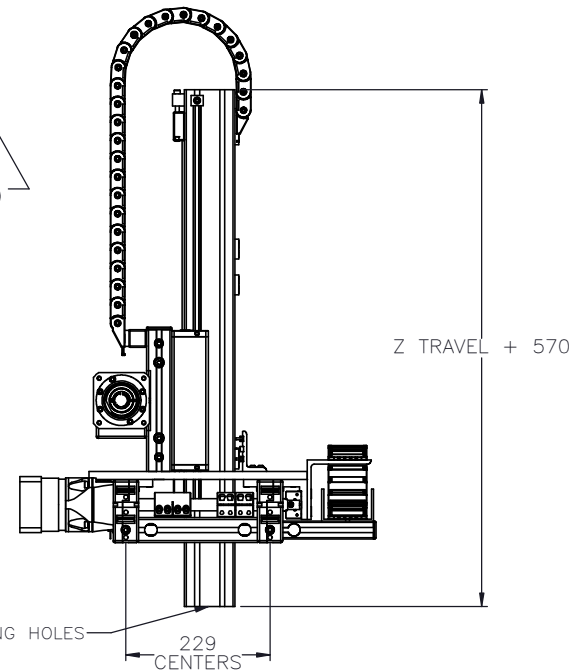
APPROXIMATE OAL
GEARBOX FLANGE SIZES VARY
(X TRAVEL + 335)




DETAIL 'A'

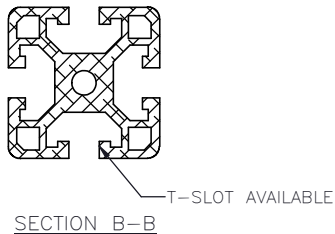
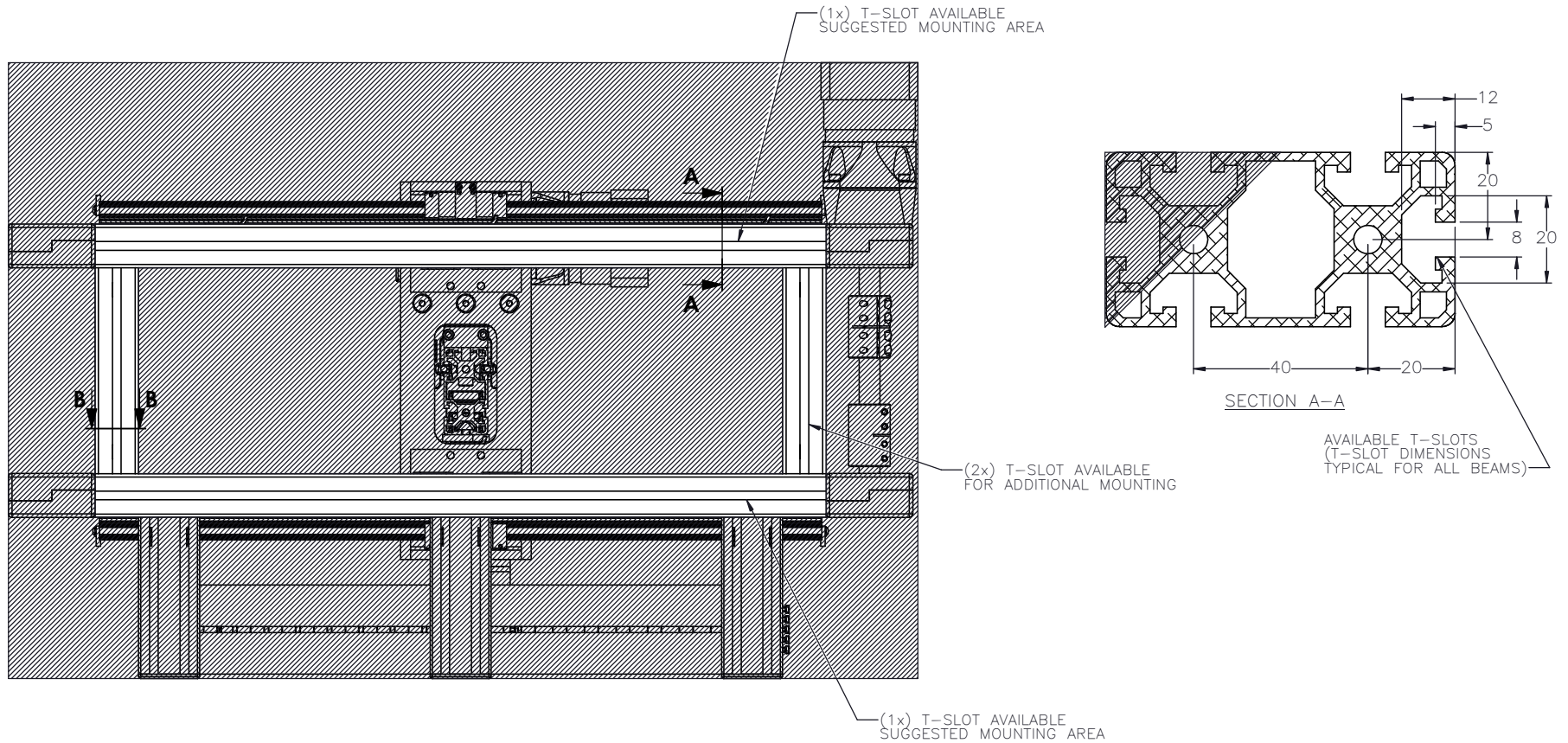



SEE DETAIL 'A'
FOR Z MOUNTING HOLES



 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 9/6/2023 MATERIAL:	TITLE: MACRON R6Y YZ GANTRY
	CHECKED BY: -- DATE: DD/MM/YYYY	
	LAST SAVED BY: awong DATE: 9/8/2023 FINISH:	
	UNLESS OTHERWISE SPECIFIED: .XX ± .254 DIMENSIONS ARE IN MILLIMETERS: .XXX ± .127 TOLERANCES UNLESS NOTED: ANG ± 0°30'	
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BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	2 OF 5	SCALE: 1:1 SHEET SIZE: C MGS-R6Y-X-X

GANTRY MOUNTING FEATURES



 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 9/6/2023	MATERIAL:	TITLE: MACRON R6Y YZ GANTRY
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: awong DATE: 9/8/2023	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: 63	SHEET: 3 OF 5 PART NUMBER: MGS-R6Y-X-X	REV:

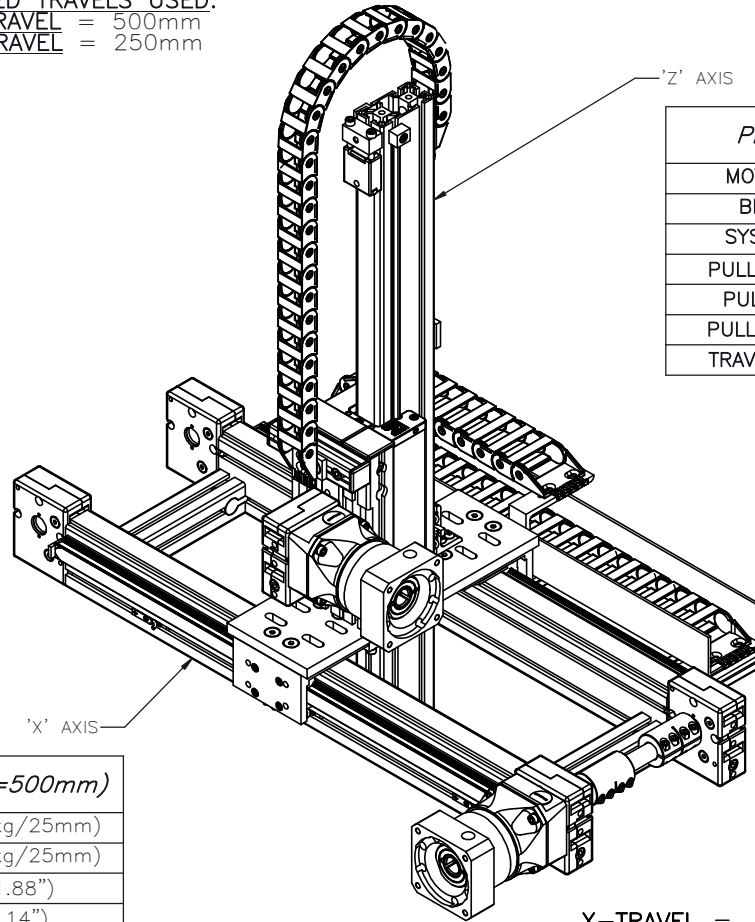
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BREAK ALL SHARP EDGES
 DIMENSIONAL LIMITS APPLY AFTER FINISHING
THIRD ANGLE PROJECTION

MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASED TRAVELS USED:
 Y-TRAVEL = 500mm
 Z-TRAVEL = 250mm




PROPERTY	BASE VALUE (T=250mm)
MOVING MASS	3.965g(+0.154kg/25mm)
BELT MASS	0.314kg(+0.012kg/25mm)
SYSTEM MASS	8.713kg(+0.154kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm

PROPERTY	BASE VALUE (T=500mm)
*MOVING MASS	3.629kg(+0.055kg/25mm)
BELT MASS	0.434kg(+0.012kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
CONN SHAFT LENGTH	95.25mm
CONN SHAFT ϕ	19.05mm
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	150mm

X-TRAVEL = _____ mm
 Z-TRAVEL = _____ mm

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

GEARBOX MASS (ADD TO SYSTEM MASS)	MPG-064	1.0kg
	MRG-064	3.0kg
	MPG-084	2.3kg
	MRG-084	5.6kg

TOTAL SYSTEM MASS	$(X-TRAVEL \times .0082) + (Z-TRAVEL \times .0042) + 20.648 = \text{kg}$		
 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 9/6/2023 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: qwong DATE: 9/8/2023	MATERIAL: FINISH:	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	TITLE: MACRON R6Y YZ GANTRY	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: 4 OF 5 PART NUMBER: MGS-R6Y-X-X	REV:

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

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

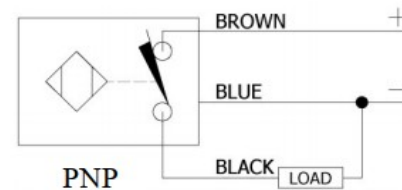
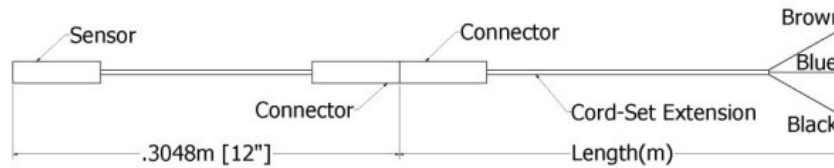
Part Number Configuration

244- _ _ _ - _ _ _

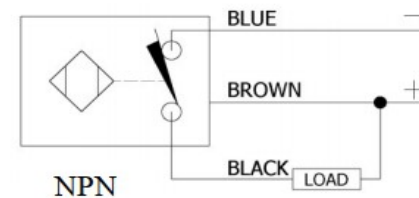
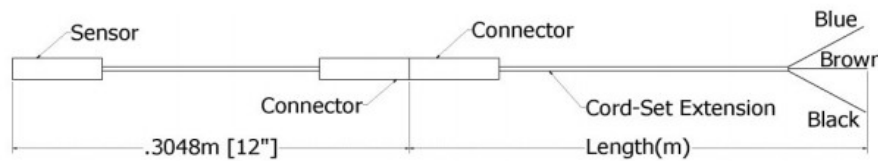
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

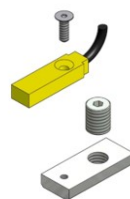
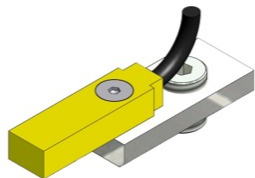
PNP Diagrams



NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



	DRAWN BY: AW DATE: 9/6/2023 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: awong DATE: 9/8/2023	MATERIAL:	TITLE:
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	T-SLOT SENSOR KIT
	SURFACE FINISH ✓	SCALE 1:1	SHEET SIZE C
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