

FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

LEVER	ROLLER MATERIAL	X DIM	Y DIM	Z DIM
GLZ51A	NYLON	19.1	55.9	6.4
GLZ51B	STEEL	19.1	55.9	6.4
GLZ51T	STAINLESS STEEL	19.1	56.8	8.8
GLZ51Y	RUBBER	50.0	66.1	10.0

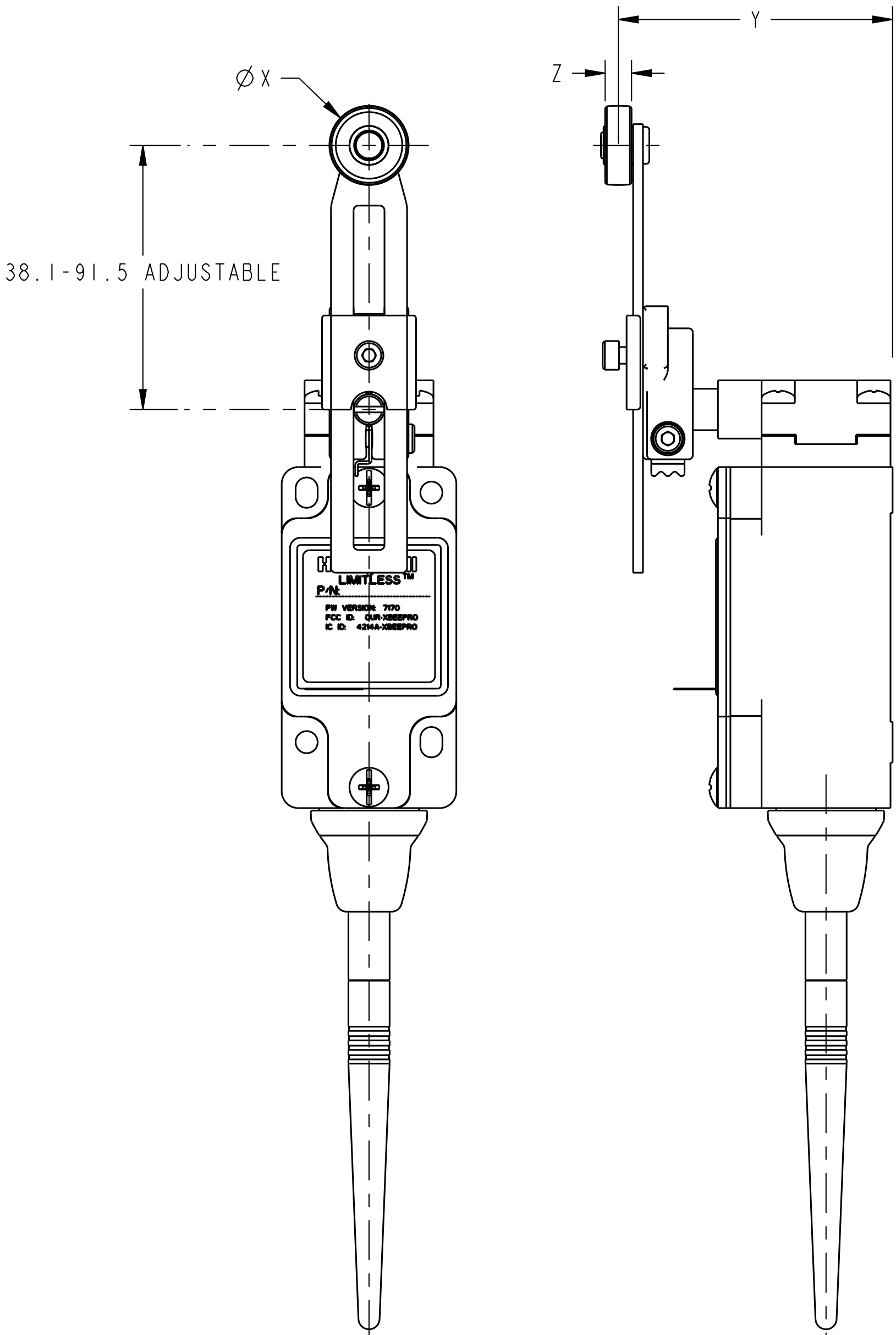


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS
OTHERWISE REFER TO FIGURE 1

LEVER	ROLLER MATERIAL	X DIM	Y DIM	Z DIM
GLZ52A	NYLON	19.1	65.9	6.4
GLZ52B	STEEL	19.1	65.9	6.4
GLZ52D	NYLON	38.1	65.9	6.4
GLZ52E	NYLON	19.1	79.4	33.1
GLZ52W	RUBBER	40.0	71.5	12.7
GLZ52Y	RUBBER	50.0	68.8	10.0

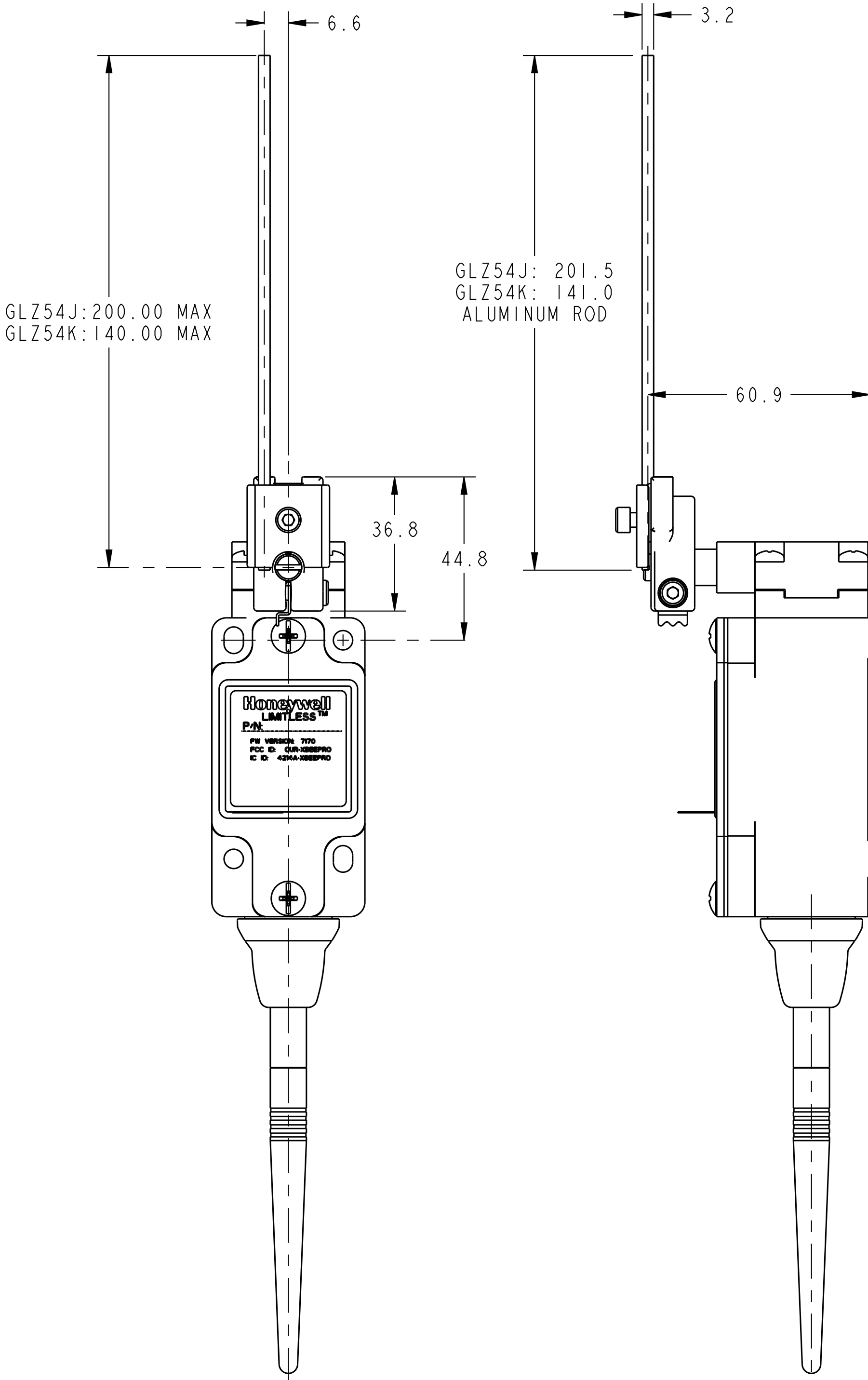


FIGURE 3 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVERS
OTHERWISE REFER TO FIGURE 1

SIDE ROTARY

H

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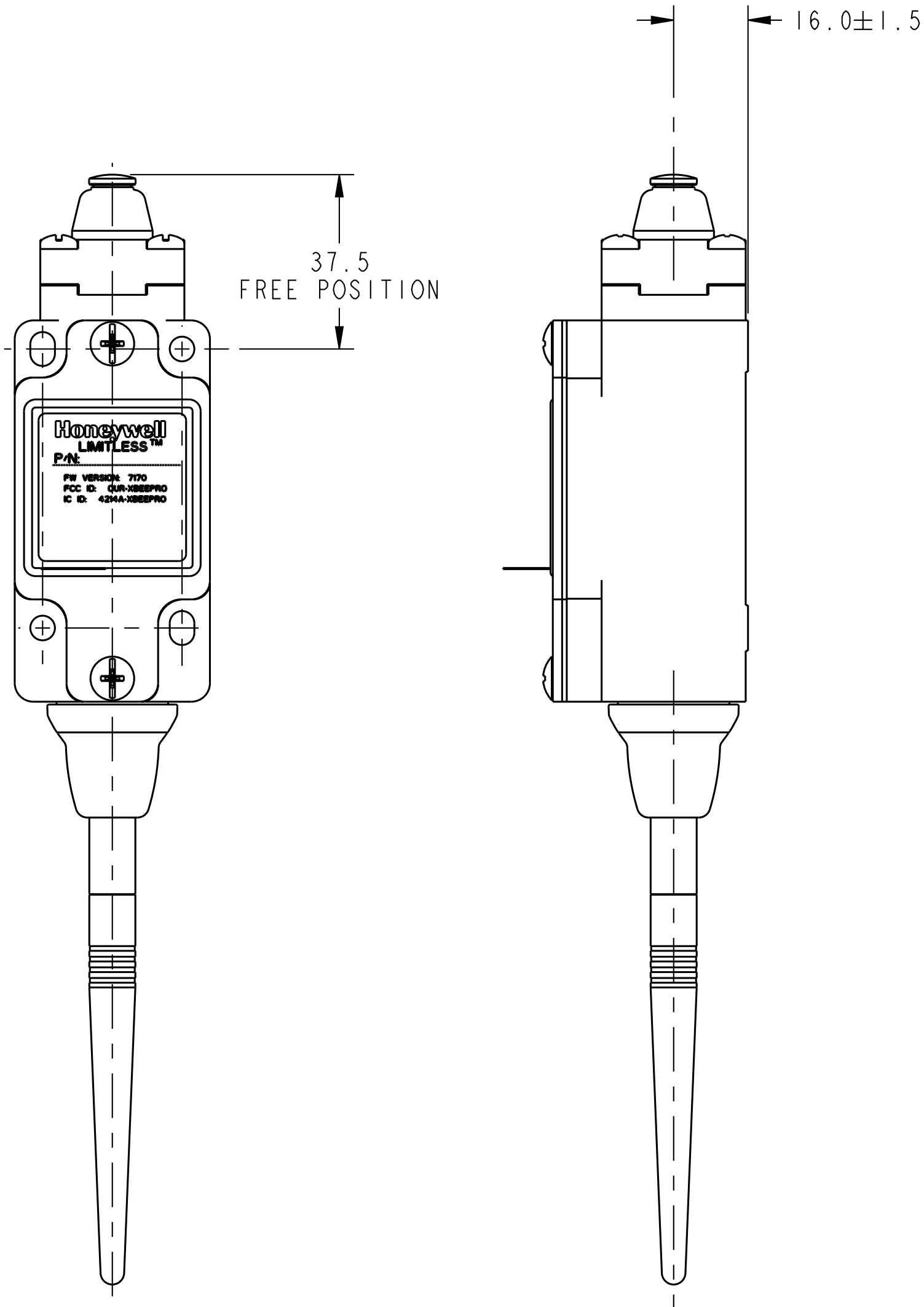


FIGURE 4 - TOP PIN PLUNGER HEAD
OTHERWISE REFER TO FIGURE 1

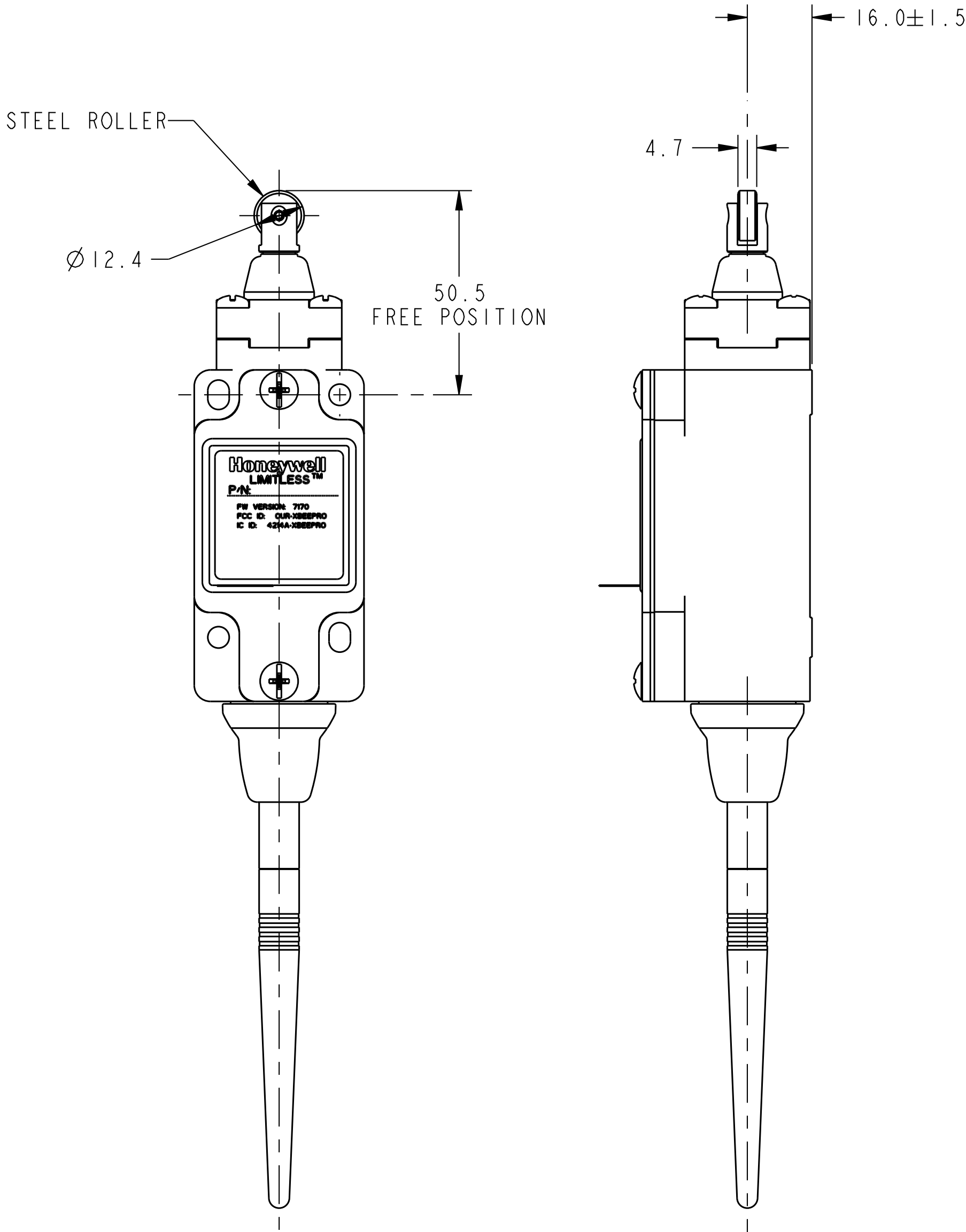


FIGURE 5 - TOP ROLLER PLUNGER HEAD
OTHERWISE REFER TO FIGURE 1

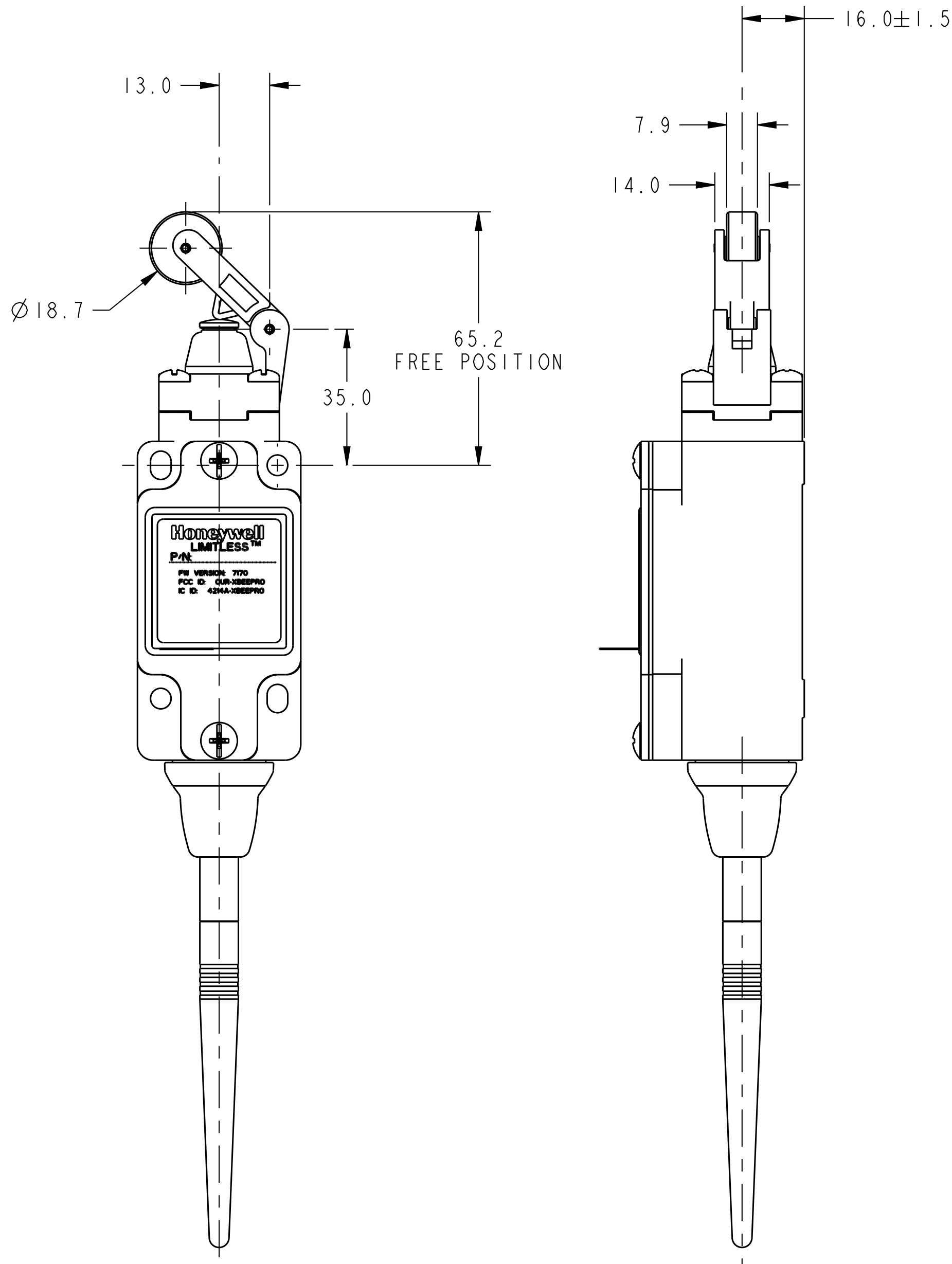


FIGURE 6 - TOP LEVER HEAD
OTHERWISE REFER TO FIGURE 1

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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
A1	I	-	WGL SERIES CHART 1	E
SCALE	1:1		SHEET	3 OF 5

H

G

F

E

D

C

B

A

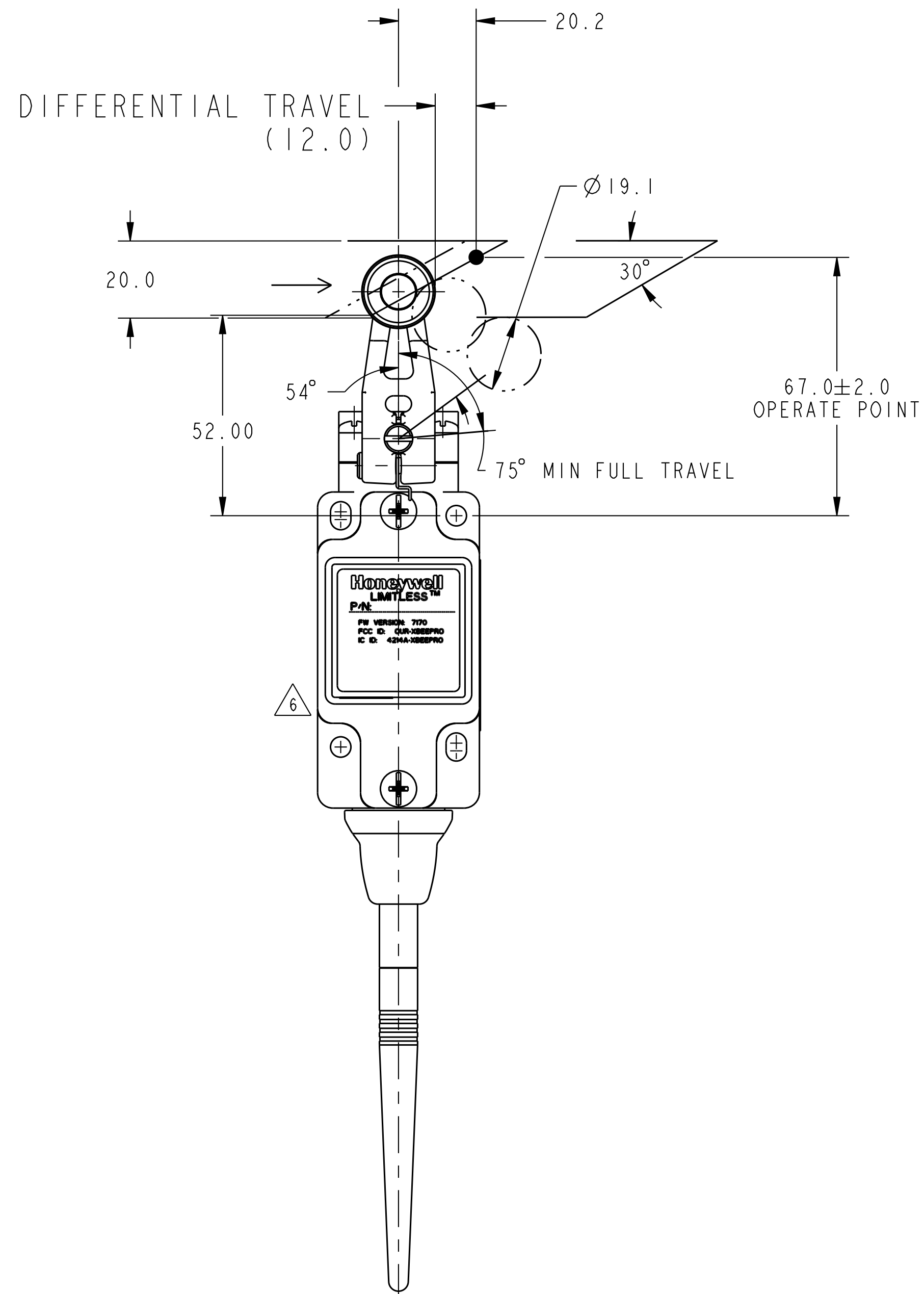


FIGURE 7

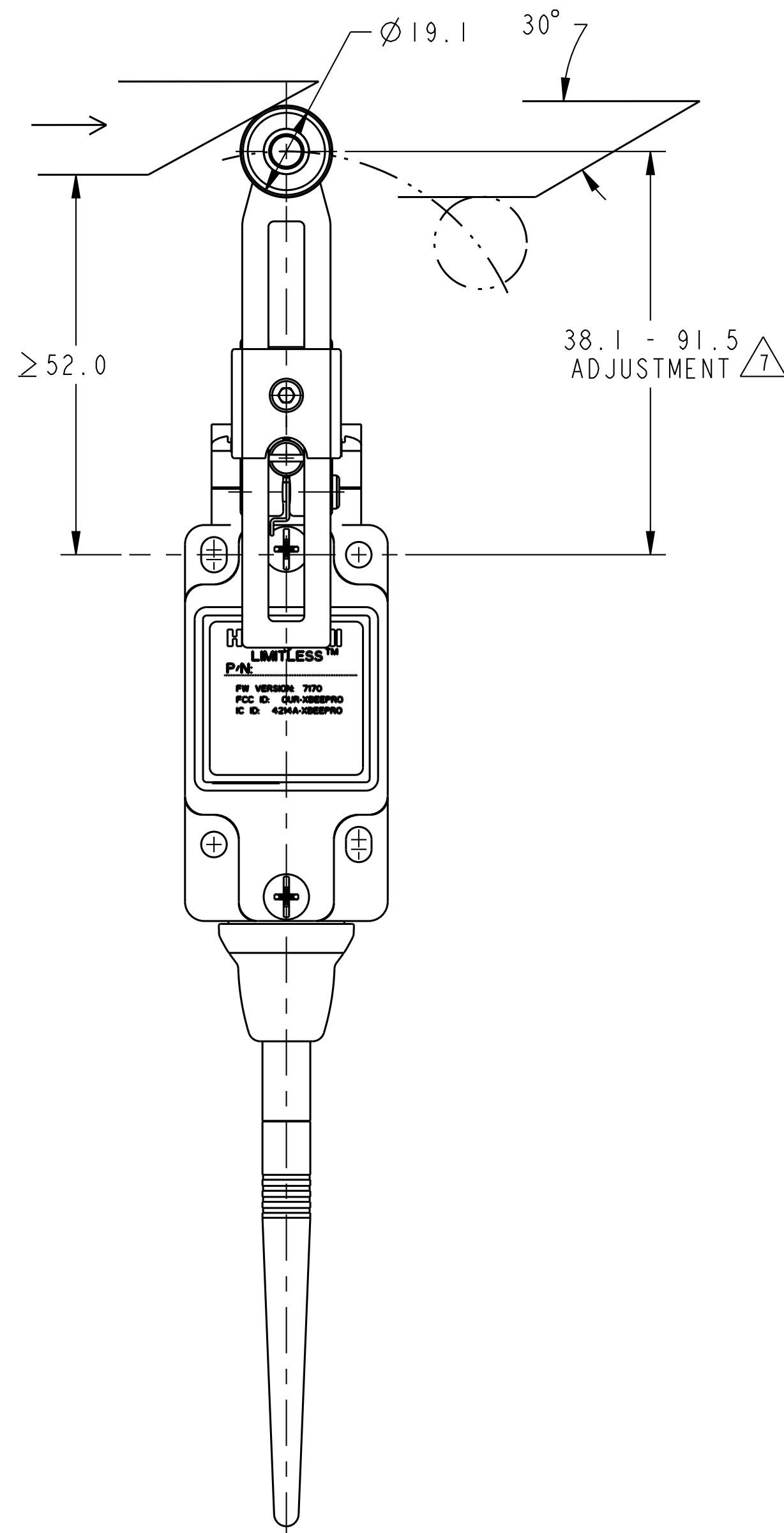


FIGURE 8

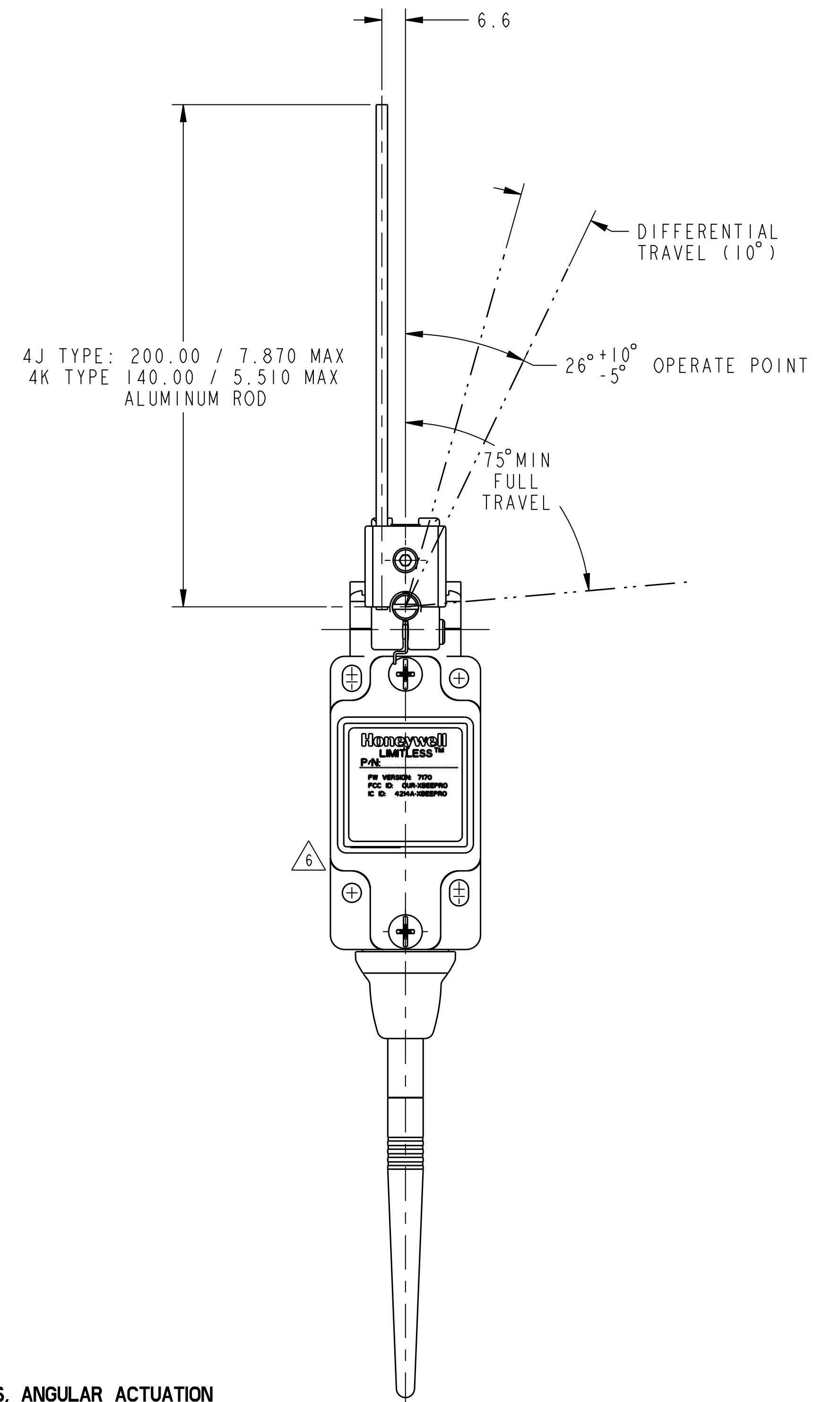



FIGURE 9

FIGURES 7 & 8, ROTARY HEADS, CAM ACTUATION 

MAXIMUM OPERATING FORCE: 9.7 N / 2.2 LB
MAXIMUM DISCONNECT FORCE: 11.4 N / 2.6 LB
MAXIMUM OPERATING VELOCITY: 85 M/S / 33.5 in/S
MINIMUM OPERATING VELOCITY: 8.5 mm/S / .33 in/S
MAXIMUM OPERATING FREQUENCY: 120 OPS/MIN

FIGURES 7, 8 & 9, SIDE ROTARY HEADS, ANGULAR ACTUATION

MAXIMUM OPERATING TORQUE / FORCE: .33 N-m / 2.9 LB-IN
MAXIMUM DISCONNECT TORQUE: .385 N-m / 3.4 LB-IN
MAXIMUM OPERATING DEGREES/S: 1290
MINIMUM OPERATING DEGREES/S: 13
MAXIMUM OPERATING FREQUENCY: 120 OPS/MIN

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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
A1	I	-	WGL SERIES CHART 1	E
SCALE		1:1		SHEET 4 OF 5

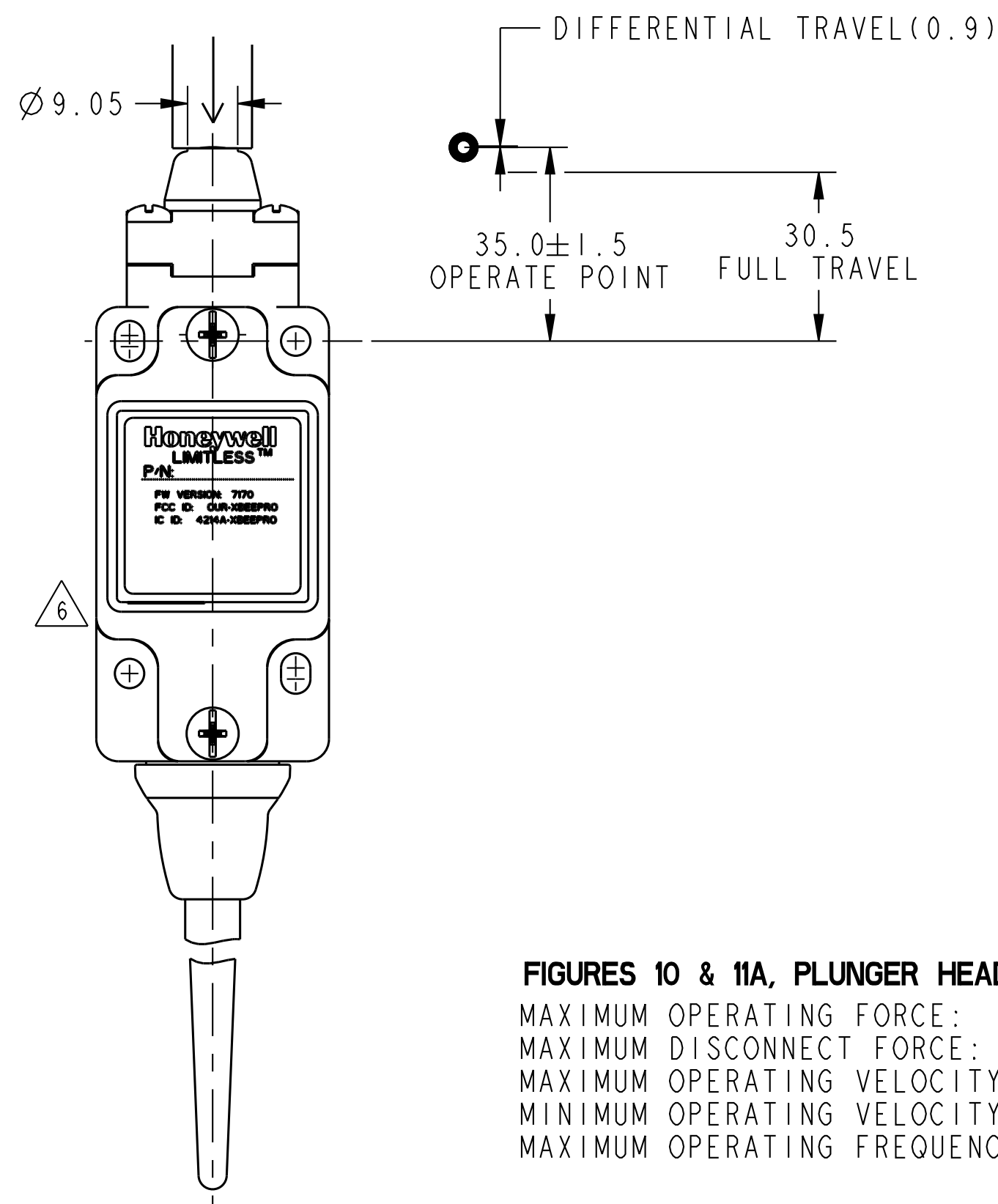


FIGURE 10

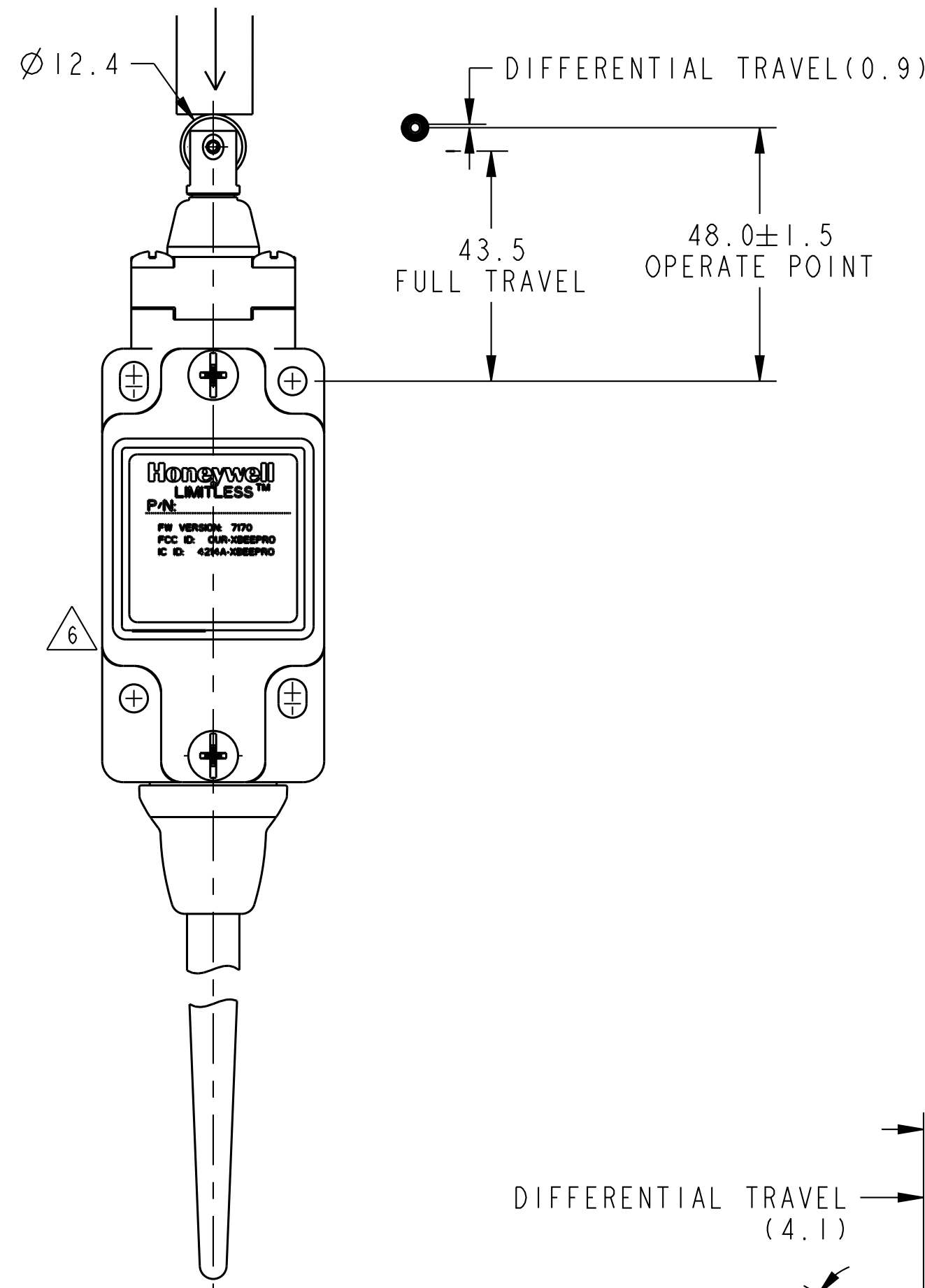


FIGURE 11A

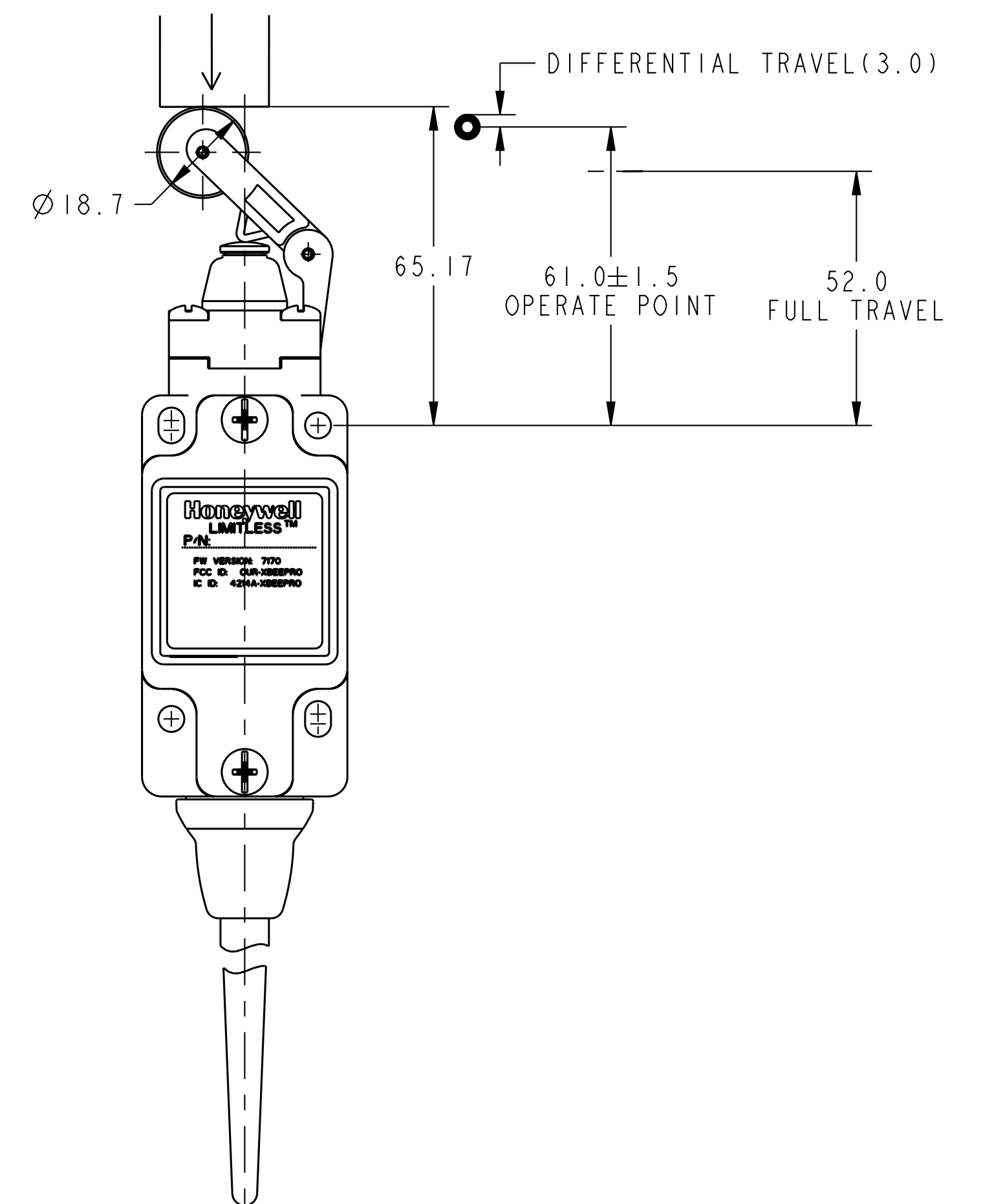


FIGURE 12A

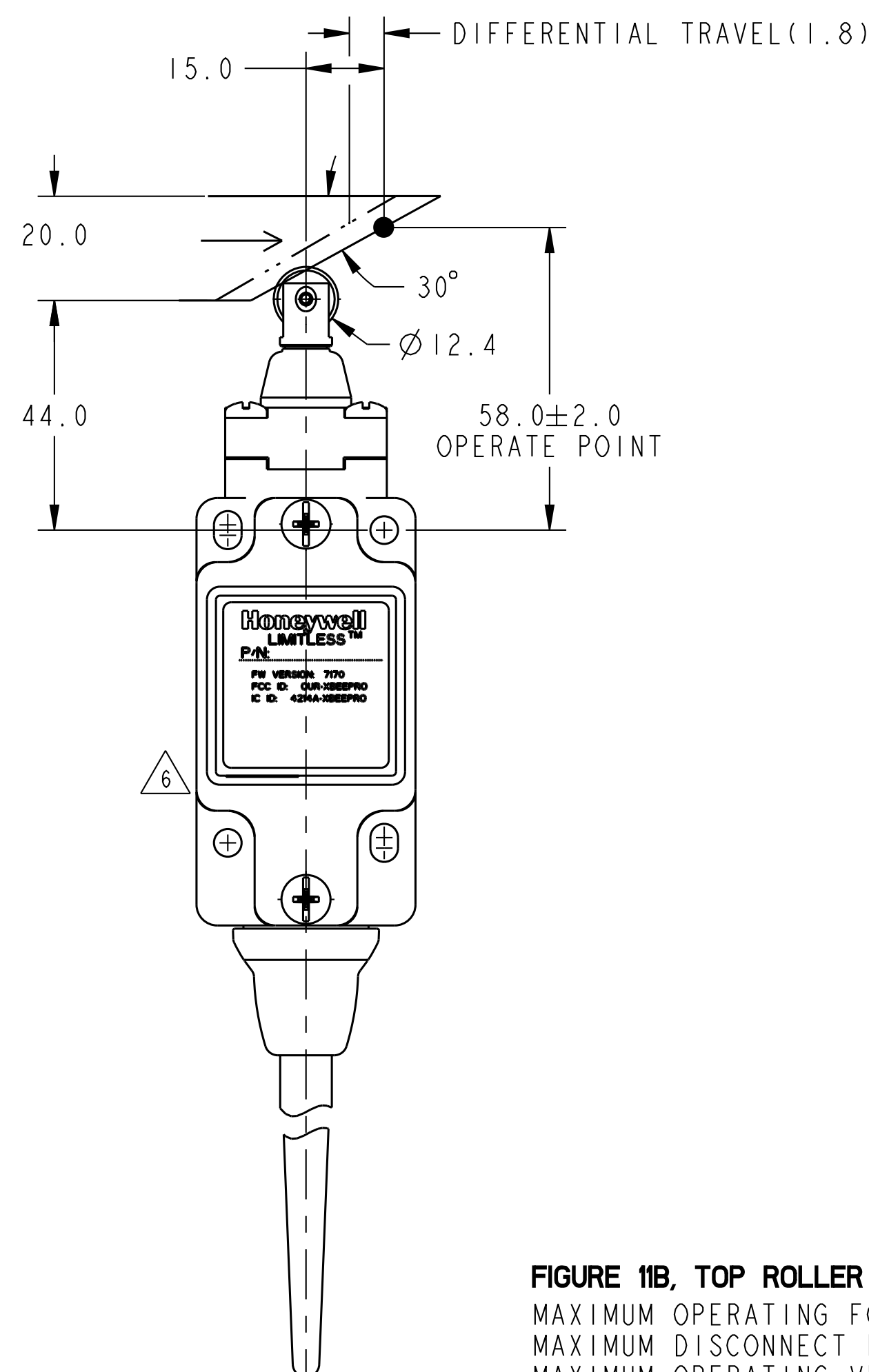


FIGURE 11B

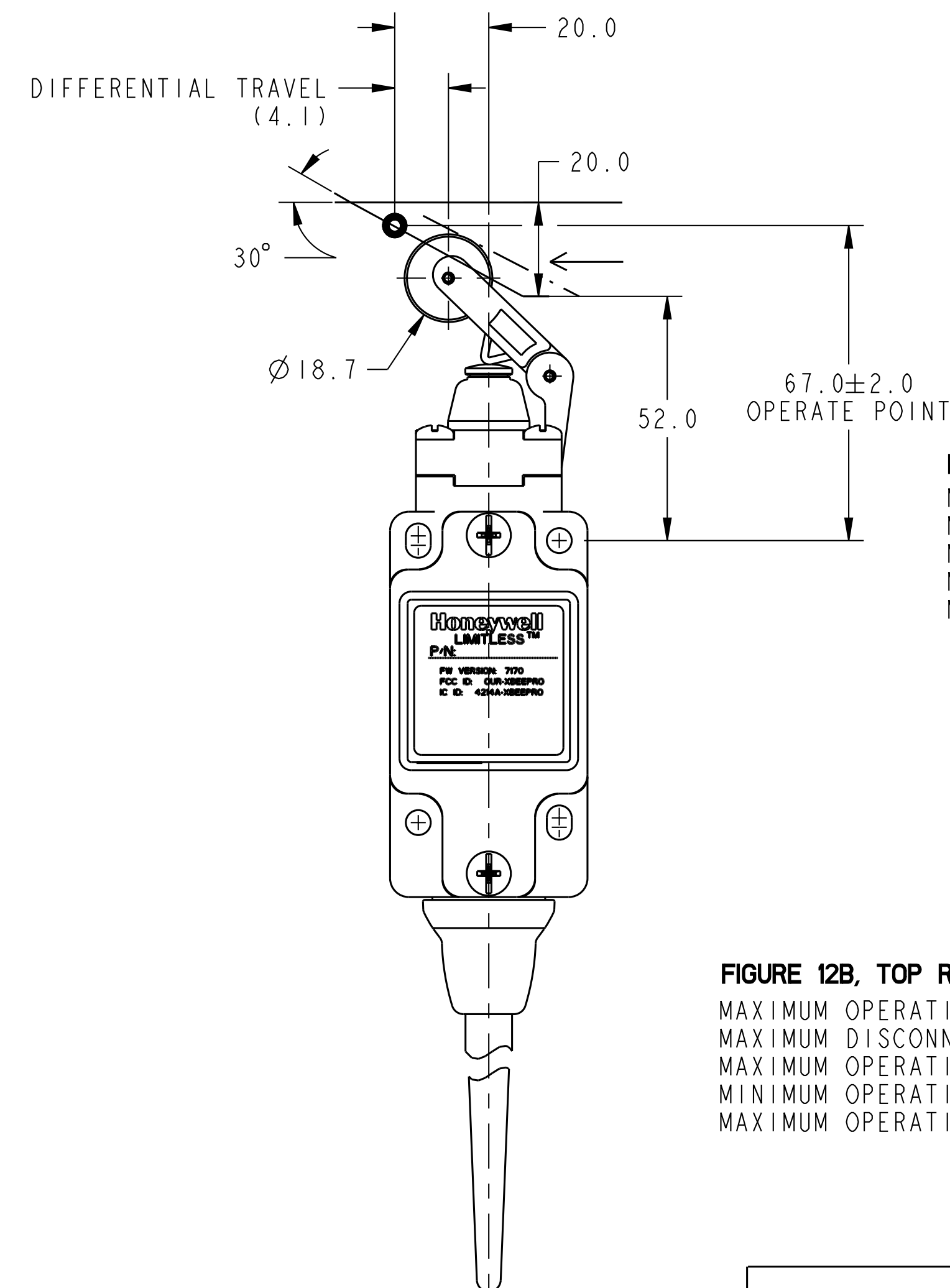


FIGURE 12B

FIGURES 10 & 11A, PLUNGER HEADS, LINEAR ACTUATION

MAXIMUM OPERATING FORCE: 16N / 3.6LB
 MAXIMUM DISCONNECT FORCE: 27N / 6.0LB
 MAXIMUM OPERATING VELOCITY: 0.1 M/S / 3.9 in/S
 MINIMUM OPERATING VELOCITY: 1.0 mm/S / .04 in/S
 MAXIMUM OPERATING FREQUENCY: 120 OPS/M

FIGURE 12A, TOP ROLLER LEVER HEAD, PIN ACTUATION

MAXIMUM OPERATING FORCE: 9.5N / 2.1LB
 MAXIMUM DISCONNECT FORCE: 12N / 2.7LB
 MAXIMUM OPERATING VELOCITY: 0.17 M/S / 6.7 in/S
 MINIMUM OPERATING VELOCITY: 1.7 mm/S / .067 in/S
 MAXIMUM OPERATING FREQUENCY: 120 OPS/M

FIGURE 12B, TOP ROLLER LEVER HEAD, CAM ACTUATION

MAXIMUM OPERATING FORCE: 5.5N / 1.2LB
 MAXIMUM DISCONNECT FORCE: 7.0N / 1.6LB
 MAXIMUM OPERATING VELOCITY: 0.29 M/S / 11.4 in/S
 MINIMUM OPERATING VELOCITY: 2.9 mm/S / .11 in/S
 MAXIMUM OPERATING FREQUENCY: 120 OPS/M

FIGURE 11B, TOP ROLLER PLUNGER HEAD, CAM ACTUATION

MAXIMUM OPERATING FORCE: 9.3N / 2.1LB
 MAXIMUM DISCONNECT FORCE: 15.6N / 3.5LB
 MAXIMUM OPERATING VELOCITY: 0.17 M/S / 6.7 in/S
 MINIMUM OPERATING VELOCITY: 1.7 mm/S / .067 in/S
 MAXIMUM OPERATING FREQUENCY: 120 OPS/M

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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
A1	I	-	WGL SERIES CHART 1	E
SCALE	1:1		SHEET	5 OF 5