

Figure 1 shows a schematic diagram of a rectangular domain. The domain is divided into two regions by a vertical line. The left region has a height of 82.0 and a width of 3.23. The right region has a height of 102.5 and a width of 4.05. The total height is 184.5 and the total width is 7.28.

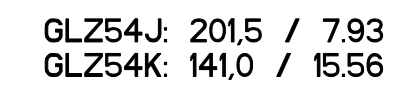
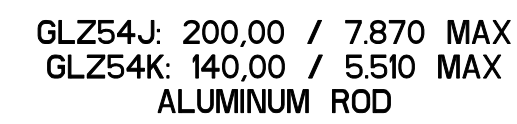


FIGURE 2 - SIDE ROTARY HEAD WITH
GLZ54 SERIES LEVER
OTHERWISE REFER TO
FIGURE 1

ELECTRICAL RATING		5	
AC		DC	
A600 Ue	AC15 Ie	Q300 Ue	DC13 Ie
(VOLTS)	(AMPS)	(VOLTS)	(AMPS)
120	6	24	2.8
240	3	125	.55
380	1.9	250	.27
480	1.5		
500	1.4		
600	1.2		

NOTES

- 1 - HEADS MAY BE INDEXED IN 90° INCREMENTS
- 2 - LEVERS MAY BE KEYED TO THE SHAFT AT 90° INCREMENTS. THEY MAY ALSO BE ATTACHED, BUT NOT KEYED ANYWHERE ON THE SHAFT.
- 3 - FOR ADDITIONAL LEVERS SEE "M" DRAWING CHART GLZ5

4 THE LEFT INDICATOR IS GREEN AND INDICATES "POWER ON" IT IS ON GLH SERIES PRODUCTS ONLY. THE RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLF AND GLH SERIES PRODUCTS ONLY.

5 THE MAXIMUM VOLTAGE, V_e OF GLF AND GLH SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS

6 FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL TO EN50041

7 CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38,1 / 1.50



LEVER	ROLLER MATERIAL	X DIM	Y DIM	Z DIM
GLZ52A	NYLON	19.1 .75	65.9 2.59	6.4 .25
GLZ52B	STEEL	19.1 .75	65.9 2.59	6.4 .25
GLZ52D	NYLON	38.1 1.5	65.9 2.59	6.4 .25
GLZ52E	NYLON	19.1 .75	79.37 3.125	33.07 1.300
GLZ52W	RUBBER	40.0 1.6	71.5 2.81	12.7 .5
GLZ52Y	RUBBER	50.9 2.0	71.5 2.81	12.7 .5

CATALOG LISTING	BODY DIMENSIONS, FIGURE	HEAD DIMENSIONS, FIGURE	HEAD ACTUATION, FIGURE
GLA****	I	N/A	N/A
GLF****	I	N/A	N/A
GLH****	I	N/A	N/A
GL*A***	IA	N/A	N/A
GL*B***	IB	N/A	N/A
GL*C***	IC	N/A	N/A
GL*D***	ID	N/A	N/A
GL****A1*	I	1	8
GL****A2*	I	3	9
GL****A4*	I	2	10
GL****A5*	I		8
GL****B	I	4	11
GL****C	I	5	13A, 13B
GL****D	I	6	14A, 14B
GL****E7A	I	7A	12
GL****E7B	I	7	12
GL****E7D	I	7B	12
GL****K8A	I	7C	15
GL****K8B	I	7D	15
GL****K8C	I	7	15

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY
REFERENCE. UNLESS NOTED, TOLERANCES ARE :

[illegible]

NO PLACES	X	17.04	X.X
ONE PLACE	X,X	0.47/016	X.XX
TWO PLACES	X,XX	0.157/006	X.XXX

THREE PLACES
ANGLES $\pm 2^\circ$

DESIGN UNITS	☒	US COSTS	☐
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SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

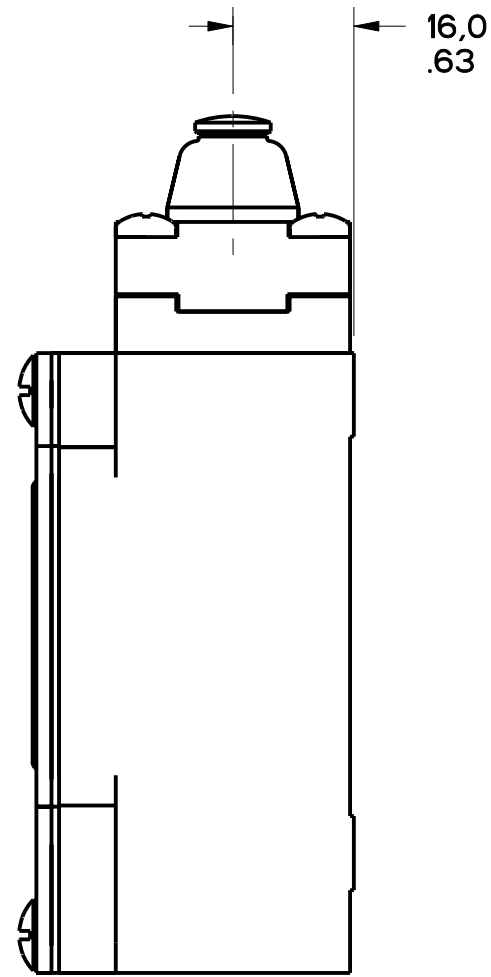
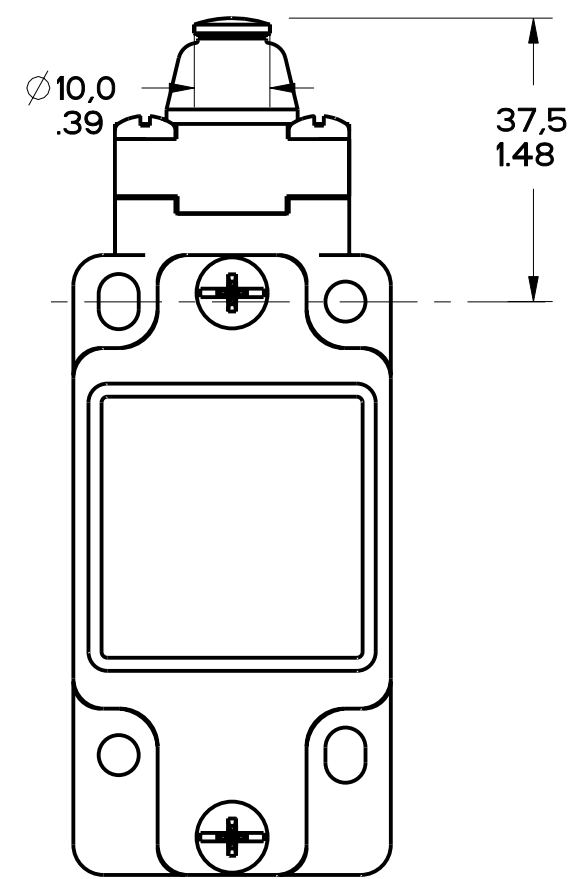


FIGURE 4 - TOP PIN PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

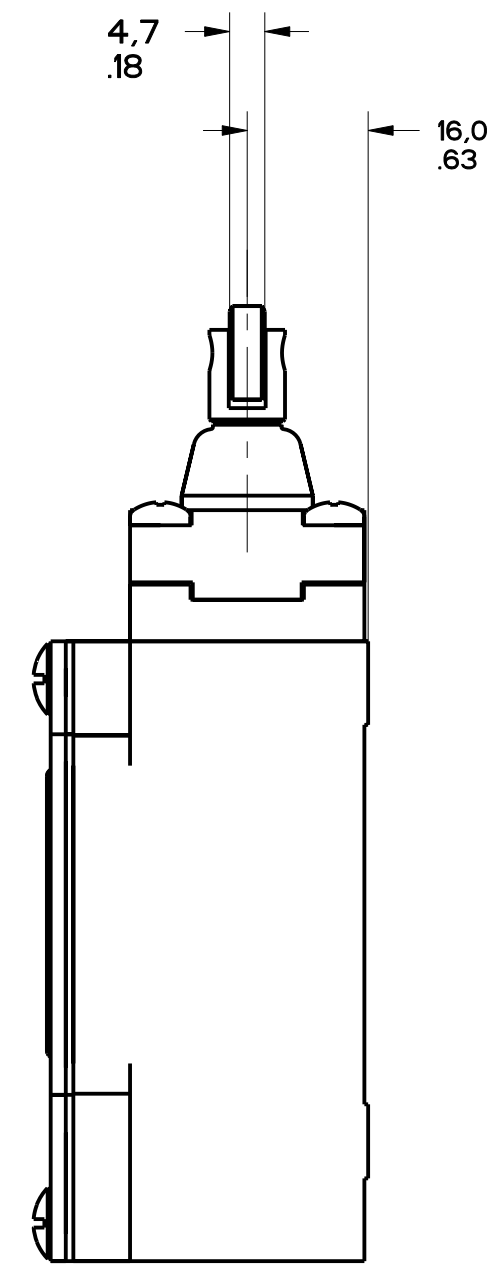
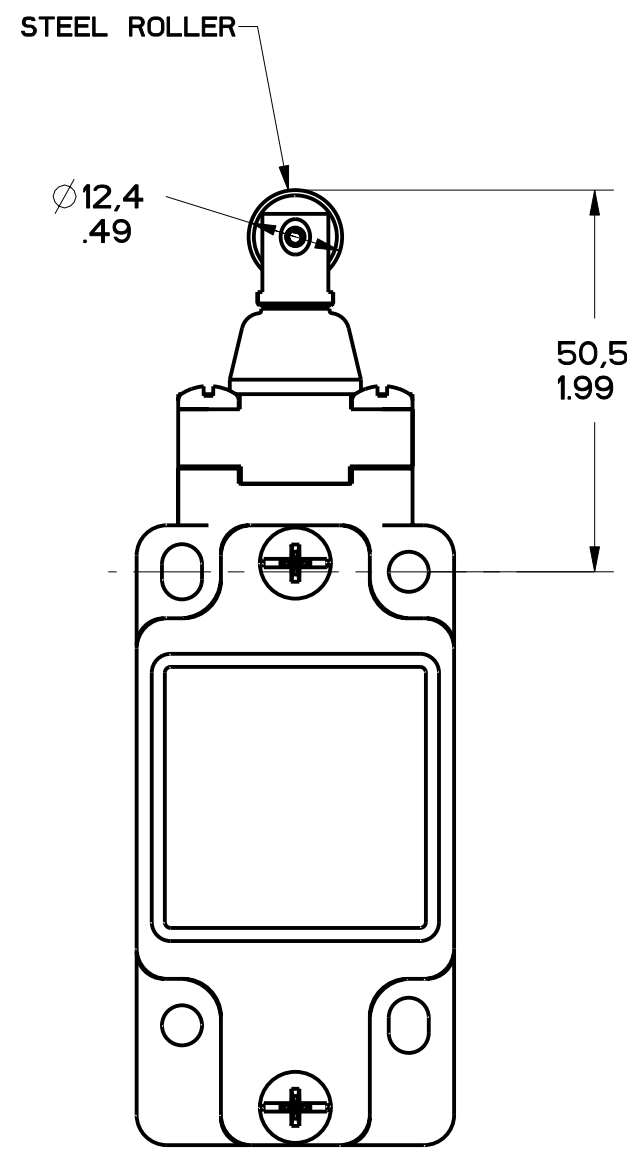


FIGURE 5 - TOP ROLLER PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

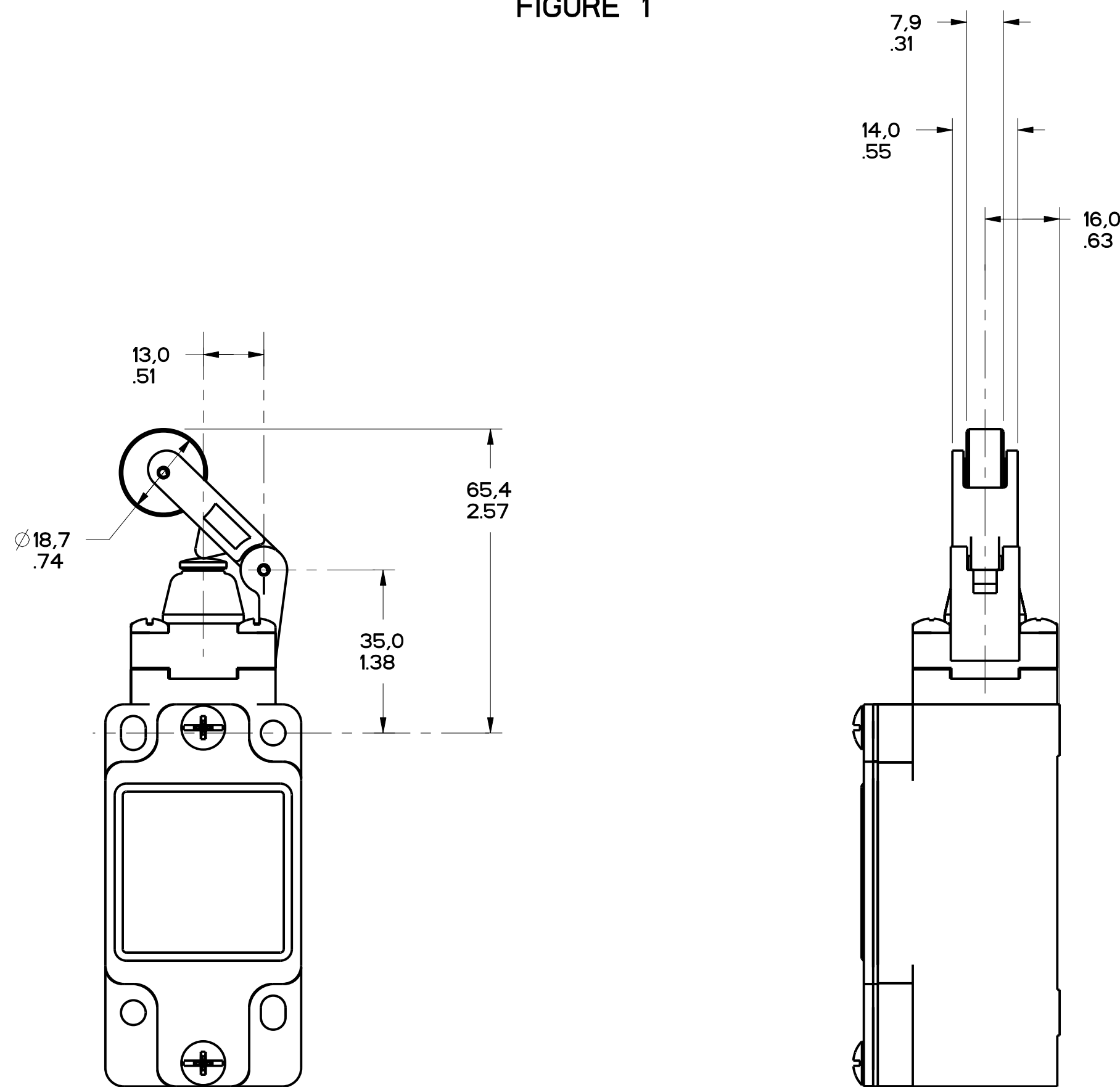


FIGURE 6 - TOP LEVER HEAD,
OTHERWISE REFER TO
FIGURE 1

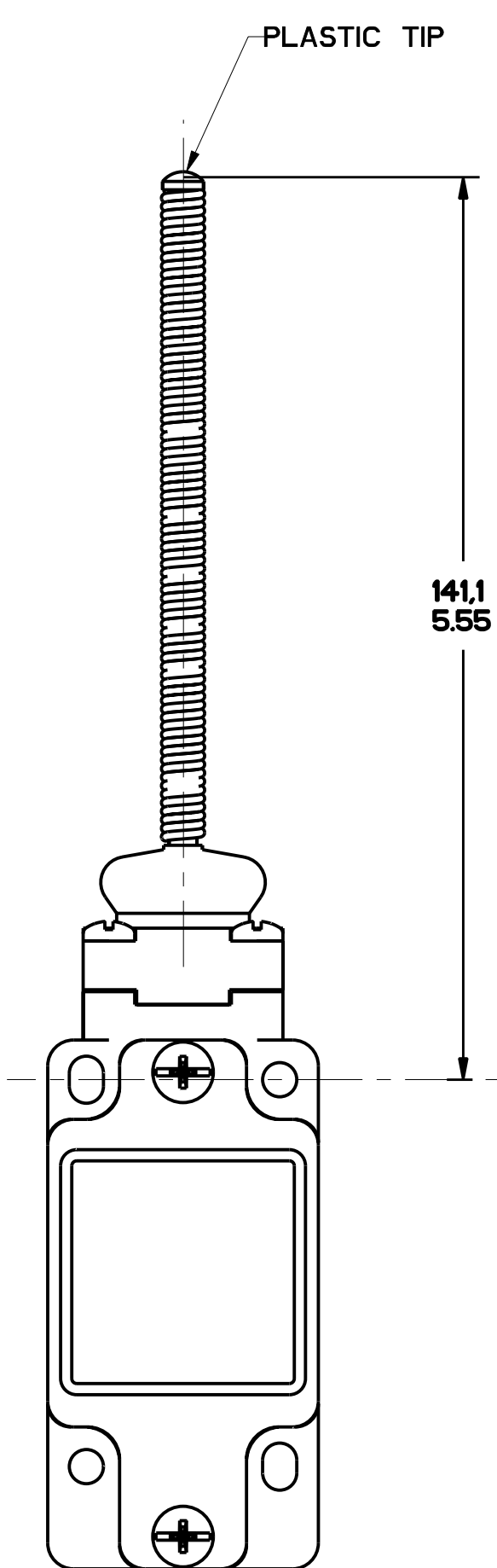


FIGURE 7 - WOBBLE HEAD,
COIL ACTUATOR,
OTHERWISE REFER TO
FIGURE 1

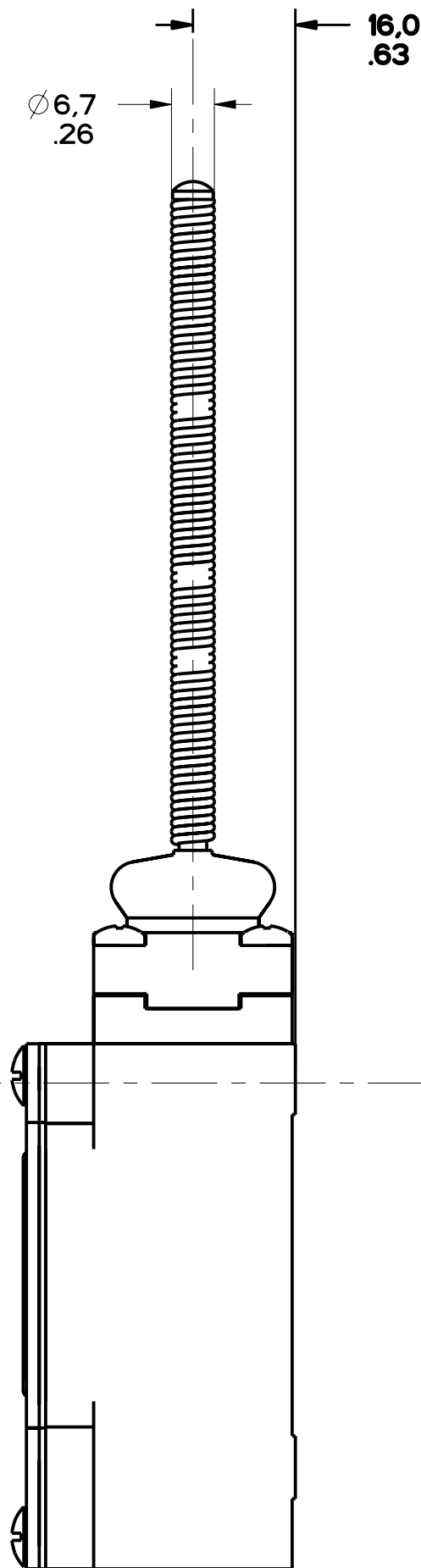


FIGURE 7A -
WOBBLE HEAD,
PLASTIC ACTUATOR,
OTHERWISE SAME AS FIGURE 7

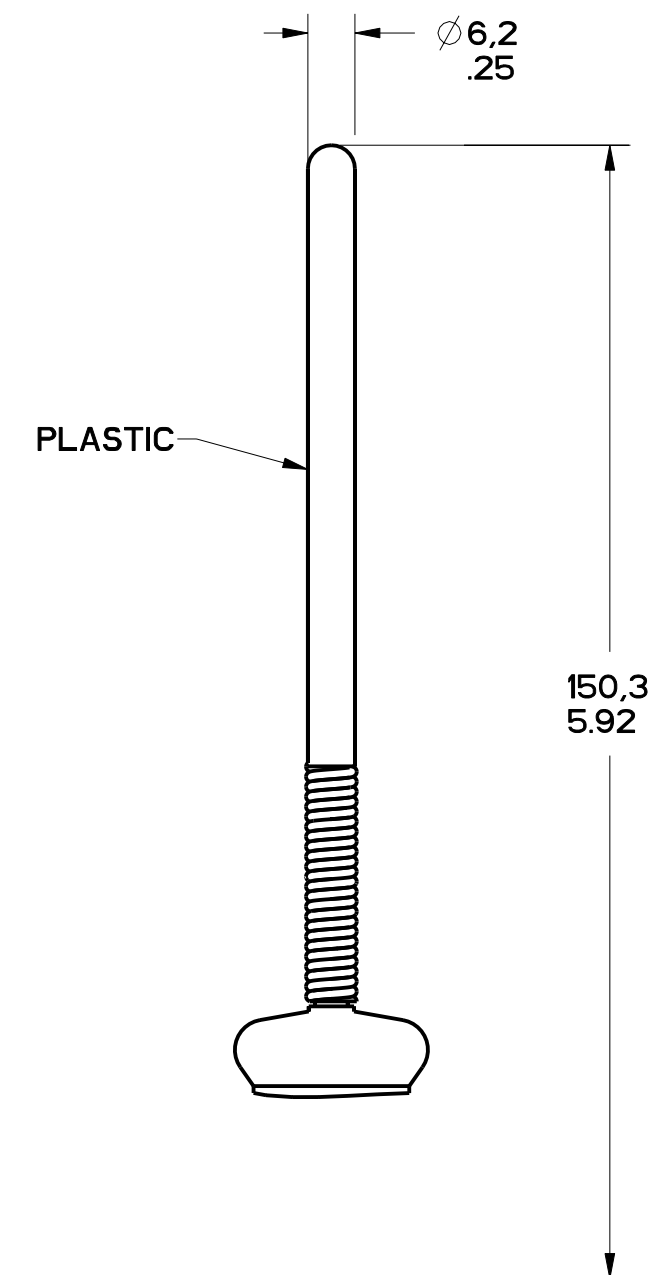


FIGURE 7B -
WOBBLE HEAD
STAINLESS STEEL SPRING
ACTUATOR, OTHERWISE
SAME AS FIGURE 7

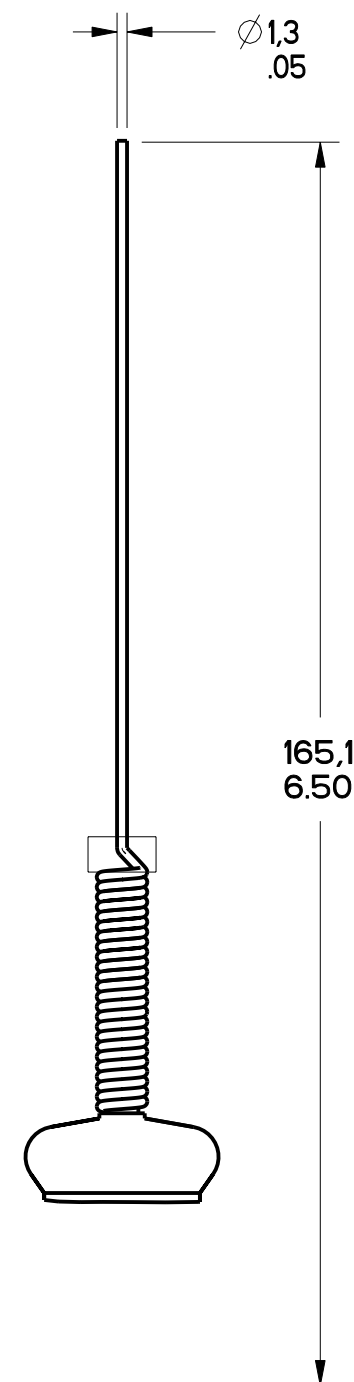


FIGURE 7C -
CAT WHISKER ACTUATOR,
STAINLESS STEEL SPRING,
OTHERWISE SAME AS FIGURE 7

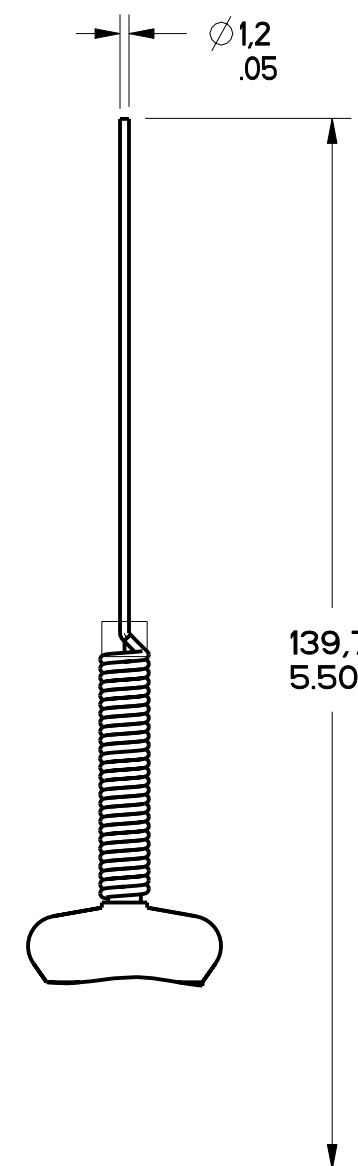


FIGURE 7D -
CAT WHISKER ACTUATOR,
STAINLESS STEEL
SPRING, OTHERWISE
SAME AS FIGURE 7

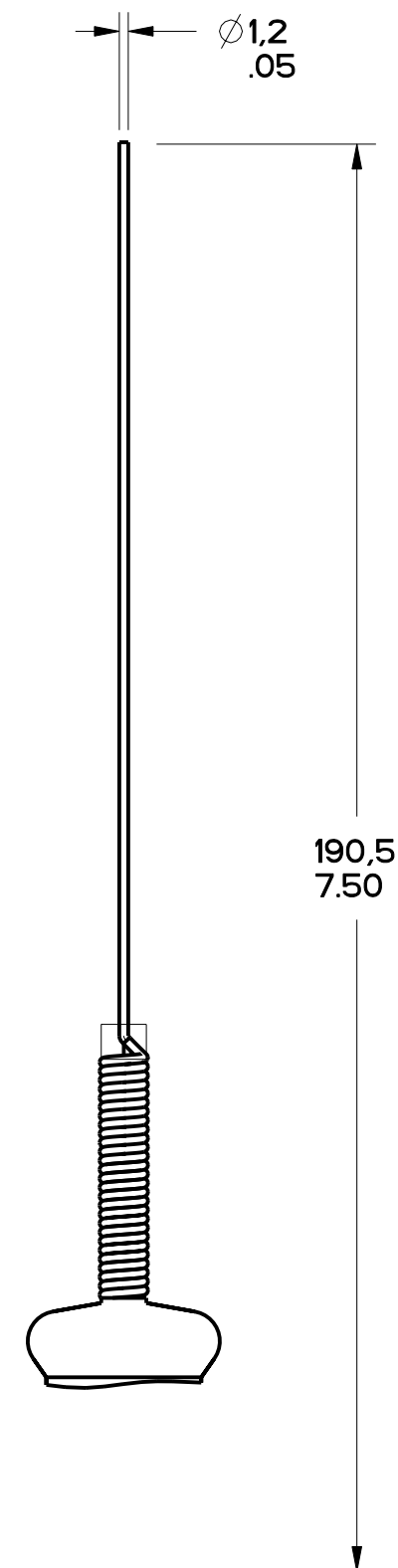
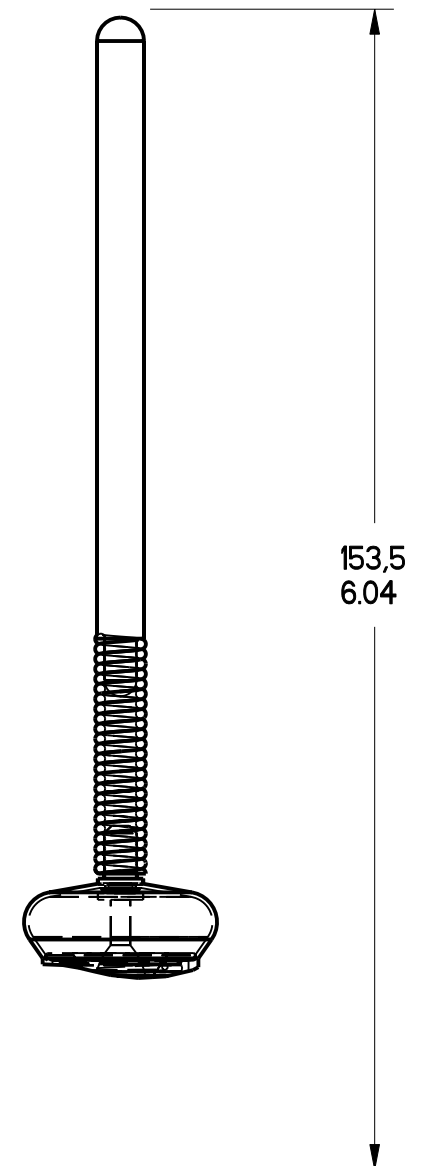


FIGURE 7E -
CABLE WOBBLE
ACTUATOR, OTHERWISE
SAME AS FIGURE 7



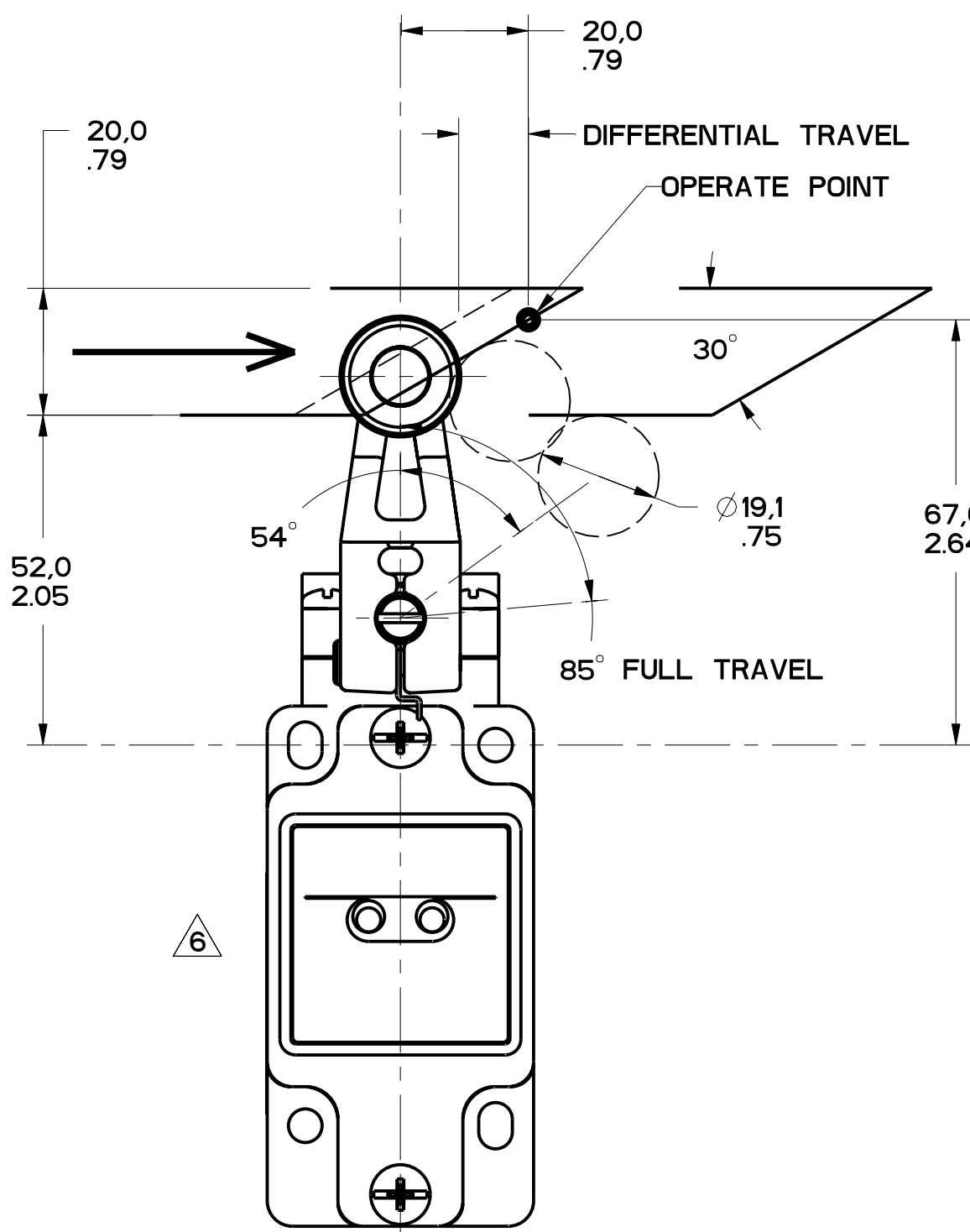


FIGURE 8

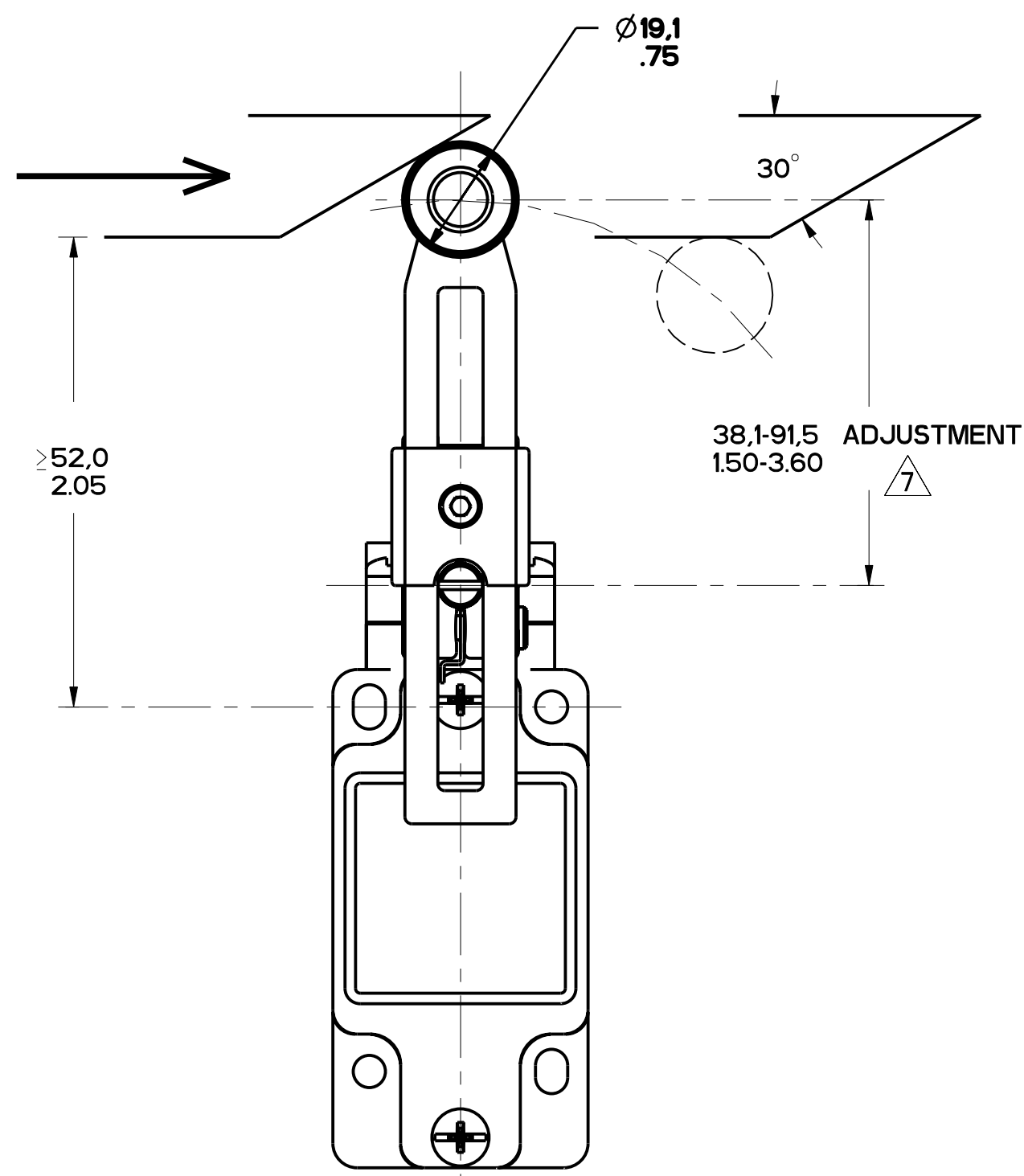


FIGURE 9

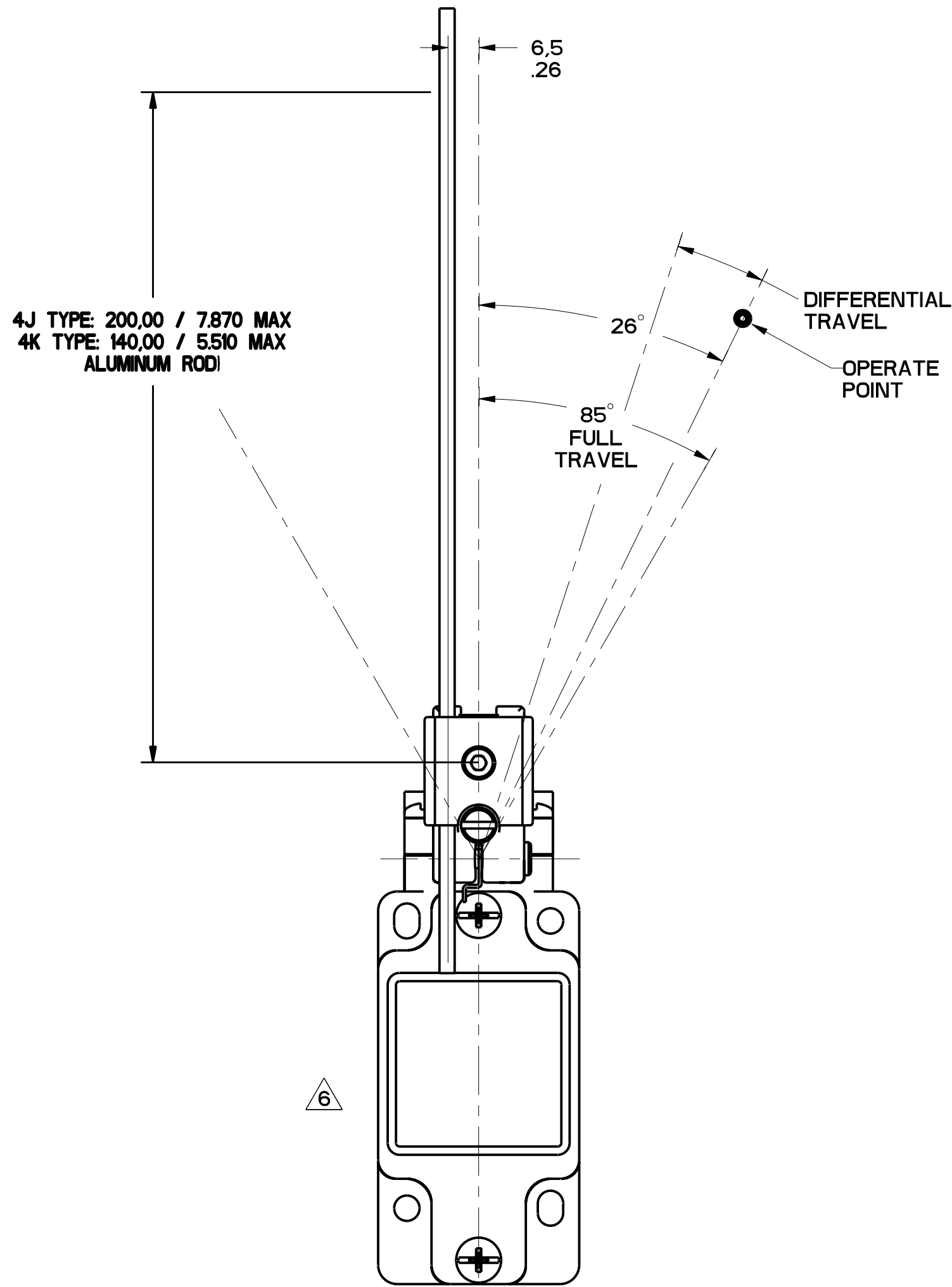


FIGURE 10

CAM ACTUATION PER EN50041, FIGURES 8 AND 9

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED, - CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 DIMENSIONS IN mm	MAXIMUM OPERATING FORCE N LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL m/s in/s	MIN OPERATE VEL mm/s in/s	MAX OPERATE FREQUENCY OPS/MIN
GL**26J*	 SNAP ACTION CONTACTS DOUBLE POLE CENTER NEUTRAL	 8 DIFFERENTIAL TRAVEL 8 DIFFERENTIAL TRAVEL	9.7 2.2	N/A	.85 33.5	8.5 .33	250

FIGURES 8, 9, 10 ANGULAR ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED, - CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 DIMENSIONS IN mm	MAXIMUM OPERATING TORQUE N-m LB-IN	MAXIMUM DISCONNECT TORQUE N-m LB-IN	MAX OPERATE DEGREE/S	MIN OPERATE DEGREE/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01A*	 SNAP - ACTION CONTACTS SINGLE POLE	 12° DIFFERENTIAL TRAVEL	.330 2.9	.385 3.4	1290	13	250
GL**03A*	 SLOW ACTING BREAK BEFORE MAKE	 38°	.330 2.9	.385 3.4	1290	13	250
GL**04A*	 SLOW ACTING MAKE BEFORE BREAK	 26°	.330 2.9	.400 3.5	1290	13	250
GL**20A* GL**24A*	 SNAP ACTION CONTACTS DOUBLE POLE	 12° DIFFERENTIAL TRAVEL	.330 2.9	.385 3.4	1290	13	250
GL**21A* GL**25A*	 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL	 8 DIFFERENTIAL TRAVEL 8 DIFFERENTIAL TRAVEL	.330 2.9	N/A	1290	13	250

CAM ACTUATION PER EN50041, FIGURES 8 AND 9

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED, - CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 DIMENSIONS IN mm	MAXIMUM OPERATING FORCE N LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL m/s in/s	MIN OPERATE VEL mm/s in/s	MAX OPERATE FREQUENCY OPS/MIN
GL**01A*	 SNAP - ACTION CONTACTS SINGLE POLE	 12 DIFFERENTIAL TRAVEL	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**03A*	 SLOW ACTING BREAK BEFORE MAKE	 32	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**04A*	 SLOW ACTING MAKE BEFORE BREAK	 8	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**20A* GL**24A*	 SNAP ACTION CONTACTS DOUBLE POLE	 12 DIFFERENTIAL TRAVEL	9.7 2.2	11.8 2.7	.85 33.5	8.5 .33	250
GL**21A* GL**25A*	 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL	 8.5 DIFFERENTIAL TRAVEL 7 DIFFERENTIAL TRAVEL	9.7 2.2	N/A	.85 33.5	8.5 .33	250

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GL SERIES CHART 1

THIRD ANGLE PROJECTION			
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NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES DESIGN UNITS	SI METRIC X.XX X.XXX X.XXX ±.2°	TOL mm 0.1/.04 0.15/.006 0.38/.015	US CUSTOMARY X.X X.XX X.XXX ±.001

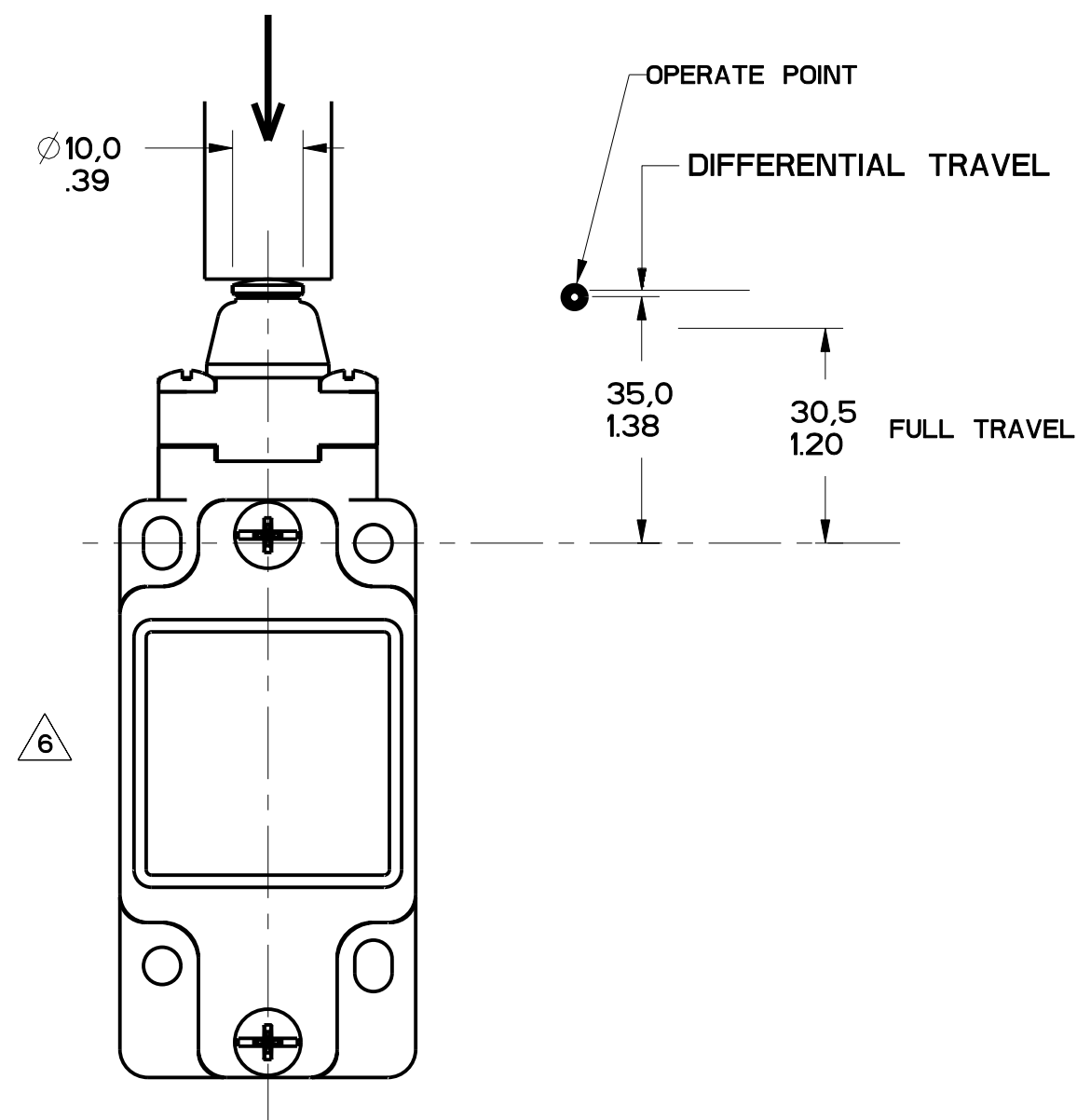


FIGURE 11

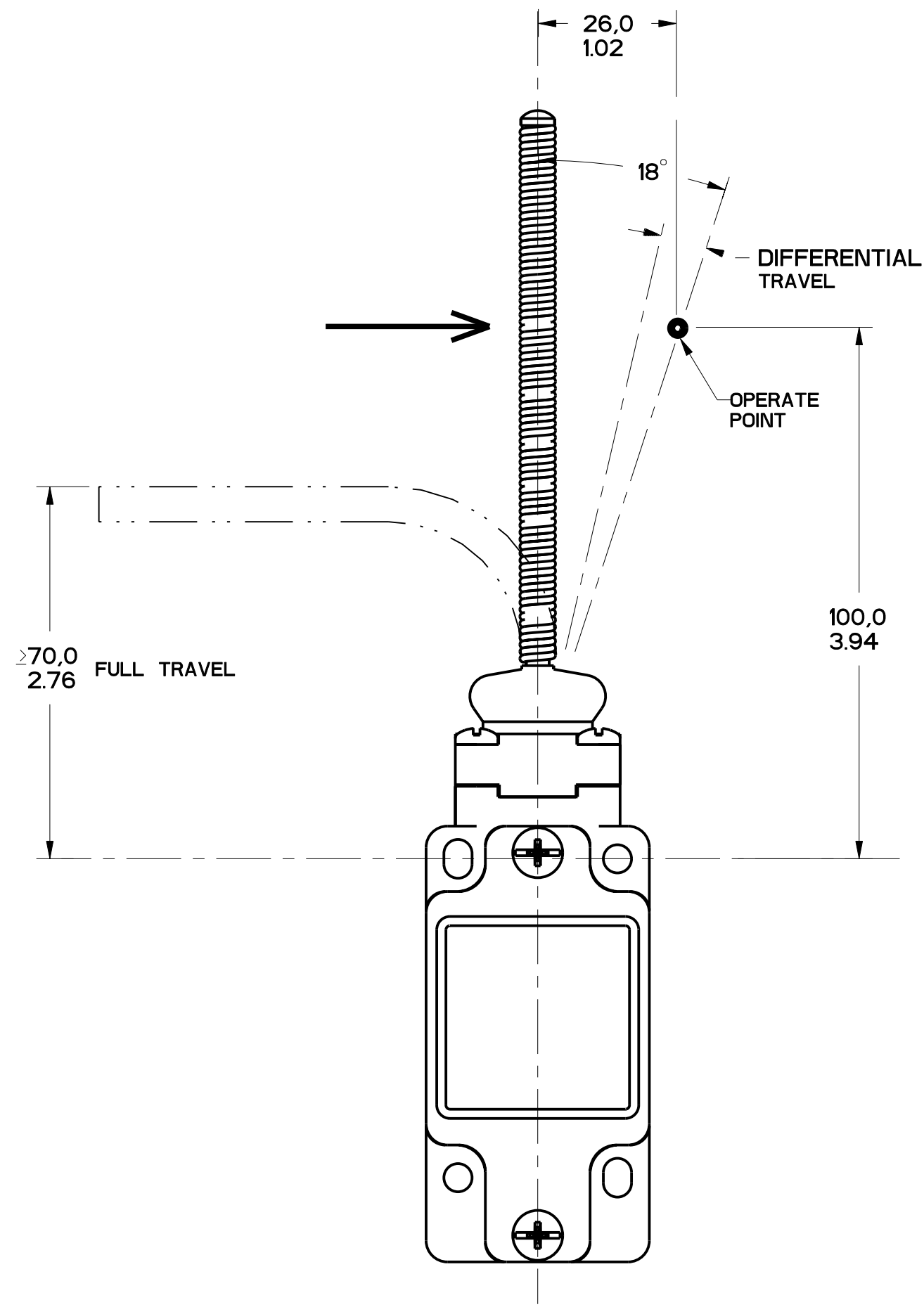


FIGURE 12

FIGURES 11, PIN PLUNGER HEAD, LINEAR ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED - CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N	MAXIMUM DISCONNECT FORCE N	MAX OPERATE VEL M/S	MIN OPERATE VEL mm/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01B	SNAP - ACTION CONTACTS SINGLE POLE 	 0.9 DIFFERENTIAL TRAVEL	16 3.6	27 6.0	0.1 3.9	1.0 0.4	250
GL**03B	SLOW ACTING BREAK BEFORE MAKE 	 34	16 3.6	27 6.0	0.1 3.9	1.0 0.4	250
GL**04B	SLOW ACTING MAKE BEFORE BREAK 	 35	16 3.6	27 6.0	0.1 3.9	1.0 0.4	250
GL**20B GL**24B	SNAP ACTION CONTACTS DOUBLE POLE 	 0.9 DIFFERENTIAL TRAVEL	16 3.6	37 8.2	0.1 3.9	1.0 0.4	250
GL**21B GL**25B	SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 	 8 DIFFERENTIAL TRAVEL	16 3.6	N/A	0.1 3.9	1.0 0.4	250

FIGURE 12, WOBBLE HEAD, ANGULAR ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED - CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING TORQUE N-m	MAXIMUM DISCONNECT TORQUE N-m	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**01E	SNAP - ACTION CONTACTS SINGLE POLE 	 8° DIFFERENTIAL TRAVEL	0.2 1.8	N/A	360	8	100
GL**20E GL**24E	SNAP ACTION CONTACTS DOUBLE POLE 	 8° DIFFERENTIAL TRAVEL	0.2 1.8	N/A	360	8	100

FIGURE 12, WOBBLE HEAD, SIDE ACTUATION AT 100mm

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED - CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N	MAXIMUM DISCONNECT FORCE N	MAX OPERATE VEL M/S	MIN OPERATE VEL mm/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01E	SNAP - ACTION CONTACTS SINGLE POLE 	 12 DIFFERENTIAL TRAVEL	2.5 0.6	N/A	.5 19.7	11 0.43	100
GL**20E GL**24E	SNAP ACTION CONTACTS DOUBLE POLE 	 12 DIFFERENTIAL TRAVEL	2.5 0.6	N/A	.5 19.7	11 0.43	100

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CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE FULL

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NO PLACES	ONE PLACE	TWO PLACES	THREE PLACES	SI METRIC	US CUSTOMARY
	X	X.X	X.XX	±.04 0.01/.016 0.15/.006	±.001 ±.005 ±.001/.005

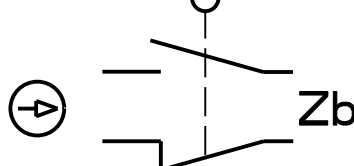
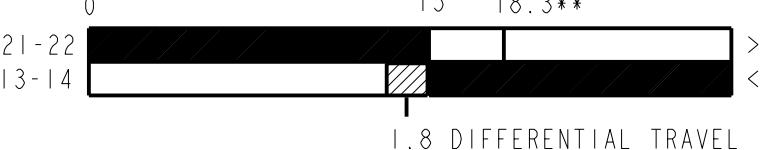
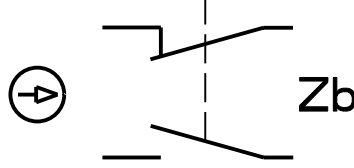
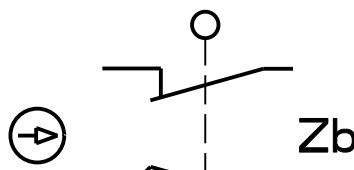
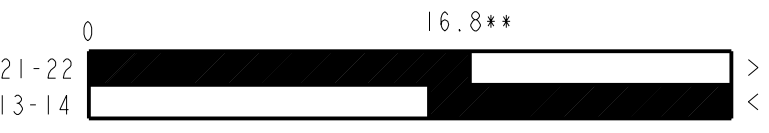
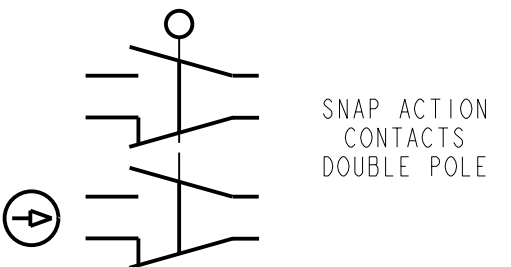
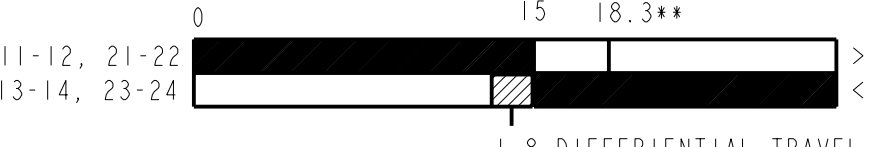
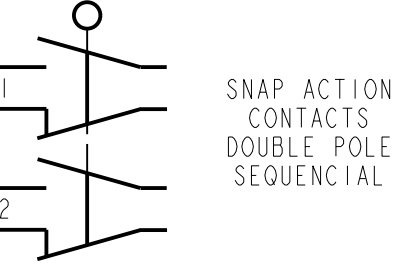
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY

WEIGHT



FIGURE 13B

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVEL AND RELATED TERMINALS — : CONTACT CLOSED □ : CONTACT OPEN ▨ : CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N $\frac{16}{3.6}$	MAXIMUM DISCONNECT FORCE N $\frac{27}{6.0}$	MAX OPERATE VEL M/S $\frac{0.1}{3.9}$	MIN OPERATE VEL mm/s $\frac{1.0}{.04}$	MAX OPERATE FREQUENCY OPS/MIN 250
GL**01C	SNAP - ACTION CONTACTS SINGLE POLE 		$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**03C	SLOW ACTING BREAK BEFORE MAKE 		$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**04C	SLOW ACTING MAKE BEFORE BREAK 		$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**20C GL**24C			$\frac{16}{3.6}$	$\frac{37}{8.2}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**21C GL**25C	STEP 1 STEP 2 		$\frac{16}{3.6}$	N/A	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED  - CONTACT OPEN,  CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N 	MAXIMUM DISCONNECT FORCE N 	MAX OPERATE VEL M/S 	MIN OPERATE VEL mm/S 	MAX OPERATE FREQUENCY OPS/MIN
GL**01C	SNAP - ACTION CONTACTS SINGLE POLE 		$\frac{9.3}{2.1}$	$\frac{15.6}{3.5}$	$\frac{0.17}{6.7}$	$\frac{1.7}{.067}$	250
GL**03C	SLOW ACTING BREAK BEFORE MAKE 		$\frac{9.3}{2.1}$	$\frac{15.6}{3.5}$	$\frac{0.17}{6.7}$	$\frac{1.7}{.067}$	250
GL**04C	SLOW ACTING MAKE BEFORE BREAK 		$\frac{9.3}{2.1}$	$\frac{15.6}{3.5}$	$\frac{0.17}{6.7}$	$\frac{1.7}{.067}$	250
GL**20C GL**24C	SNAP ACTION CONTACTS DOUBLE POLE 		$\frac{9.3}{2.1}$	$\frac{21.4}{4.8}$	$\frac{0.17}{6.7}$	$\frac{1.7}{.067}$	250
GL**21C GL**25C	STEP 1  STEP 2  SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL		$\frac{9.3}{2.1}$	N/A	$\frac{0.17}{6.7}$	$\frac{1.7}{.067}$	250



SCALE	FULL
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REFERENCE, UNLESS NOTED, TOLERANCES ARE :			
DIM		TOL	

	TIME min	YOL mm / in	TIME h	YOL mm / in
NO PLACES	X	11.04	X.X	0.8 / 1

ONE PLACE	X,X	0.4/.016	X,XX	0.38/
TWO PLACES	X,XX	0.15/.006	X,XXX	0.13/
THREE PLACES				

SI METRIC	US CUSTOMARY
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DESIGN UNITS	☒	☐
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CATALOG LISTING

SWITCH, ENCLOSED

GL SERIES CHART 1

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

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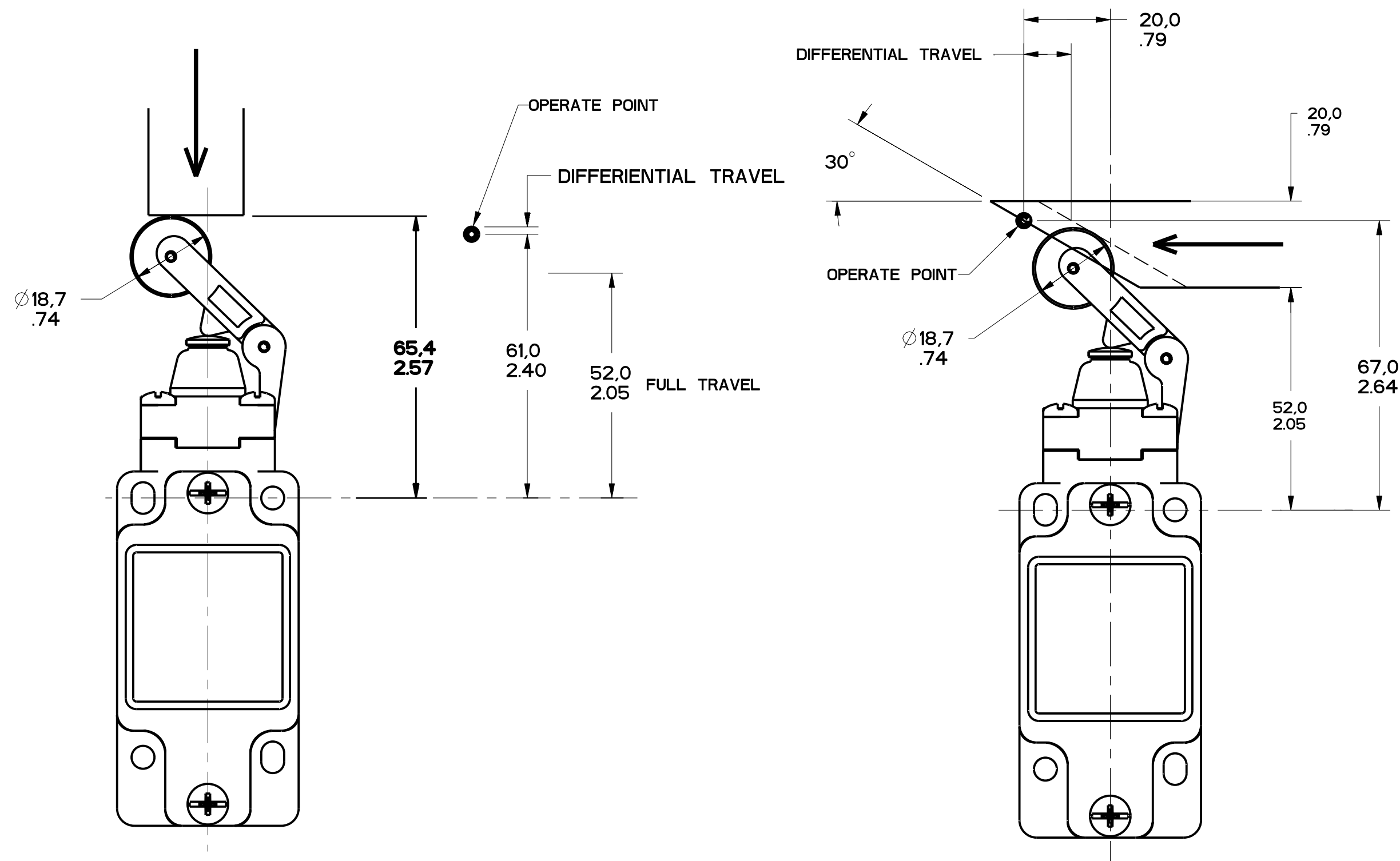


FIGURE 14A

FIGURE 14B

FIGURE 14A, TOP ROLLER LEVER HEAD WITH PIN ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED - CONTACT OPEN - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N	MAXIMUM DISCONNECT FORCE N	MAX OPERATE VEL. M/S	MIN OPERATE VEL. M/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01D	SNAP - ACTION CONTACTS SINGLE POLE	65.2 61 56.9** 52 21-22 13-14 1.7 DIFFERENTIAL TRAVEL	9.5 2.1	12 2.7	0.17 6.7	1.7 .067	250
GL**03D	SLOW ACTING BREAK BEFORE MAKE	65.2 61** 52 21-22 13-14 59.1	9.5 2.1	12 2.7	0.17 6.7	1.7 .067	250
GL**04D	SLOW ACTING MAKE BEFORE BREAK	65.2 59.1** 52 21-22 13-14 61	9.5 2.1	12 2.7	0.17 6.7	1.7 .067	250
GL**20D GL**24D	SNAP ACTION CONTACTS DOUBLE POLE	65.2 61 56.9** 52 11-12, 21-22 13-14, 23-24 1.7 DIFFERENTIAL TRAVEL	9.5 2.1	16.4 3.7	0.17 6.7	1.7 .067	250
GL**21D GL**25D	SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL	65.2 61 58.6 11-12 13-14 21-22 23-24 1.6 DIFFERENTIAL TRAVEL 1.6 DIFFERENTIAL TRAVEL	9.5 2.1	N/A	0.17 6.7	1.7 .067	250

FIGURE 14B, TOP ROLLER LEVER HEAD WITH CAM ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS - CONTACT CLOSED - CONTACT OPEN - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N	MAXIMUM DISCONNECT FORCE N	MAX OPERATE VEL. M/S	MIN OPERATE VEL. mm/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01D	SNAP - ACTION CONTACTS SINGLE POLE	0 20 29.1** 21-22 13-14 4.1 DIFFERENTIAL TRAVEL	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**03D	SLOW ACTING BREAK BEFORE MAKE	0 20** 21-22 13-14 24.1	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**04D	SLOW ACTING MAKE BEFORE BREAK	0 24.1** 21-22 13-14 20	5.5 1.2	9.6 2.2	0.29 11.4	2.9 .11	250
GL**20D GL**24D	SNAP ACTION CONTACTS DOUBLE POLE	0 20 29.1** 11-12, 21-22 13-14, 23-24 4.1 DIFFERENTIAL TRAVEL	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**21D GL**25D	SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL	0 20 25.5 11-12 13-14 21-22 23-24 3.7 DIFFERENTIAL TRAVEL 3.7 DIFFERENTIAL TRAVEL	5.5 1.2	N/A	0.29 11.4	2.9 .11	250



FIGURE 15

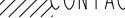
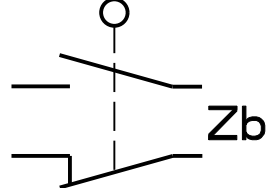
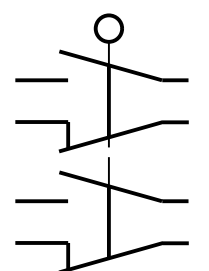
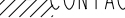
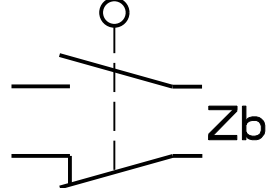
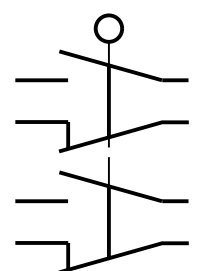
FIGURE 15, CAT WISKER HEAD, SIDE ACTUATION AT 100mm							
CATALOG LISTING	CONTACT BLOCK DIAGRAM	 - CONTACT CLOSED  - CONTACT OPEN, DIFFERENTIAL TRAVEL  - CONTACT CLOSED	MAXIMUM OPERATING FORCE N 1.3 .3	MAXIMUM DISCONNECT FORCE N 1.3 .3	MAX. OPERATE VEL. M/S 1.5	MIN. OPERATE VEL. mm/S 11 .43	MAX. OPERATE FREQUENCY OPS/MIN
GL**01K	SNAP - ACTION CONTACTS SINGLE POLE 		1.3 .3	N/A	5 19.7	11 .43	100
GL**20K GL**24K	SNAP ACTION CONTACTS DOUBLE POLE 		1.3 .3	N/A	5 19.7	11 .43	100

FIGURE 15, CAT WISKER HEAD, SIDE ACTUATION AT 100mm							
CATALOG LISTING	CONTACT BLOCK DIAGRAM	 - CONTACT CLOSED  - CONTACT OPEN, DIFFERENTIAL TRAVEL  - CONTACT CLOSED	MAXIMUM OPERATING FORCE N 1.3 .3	MAXIMUM DISCONNECT FORCE N 1.3 .3	MAX. OPERATE VEL. M/S 1.5	MIN. OPERATE VEL. mm/S 11 .43	MAX. OPERATE FREQUENCY OPS/MIN
GL**01K	SNAP - ACTION CONTACTS SINGLE POLE 		1.3 .3	N/A	5 19.7	11 .43	100
GL**20K GL**24K	SNAP ACTION CONTACTS DOUBLE POLE 		1.3 .3	N/A	5 19.7	11 .43	100

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