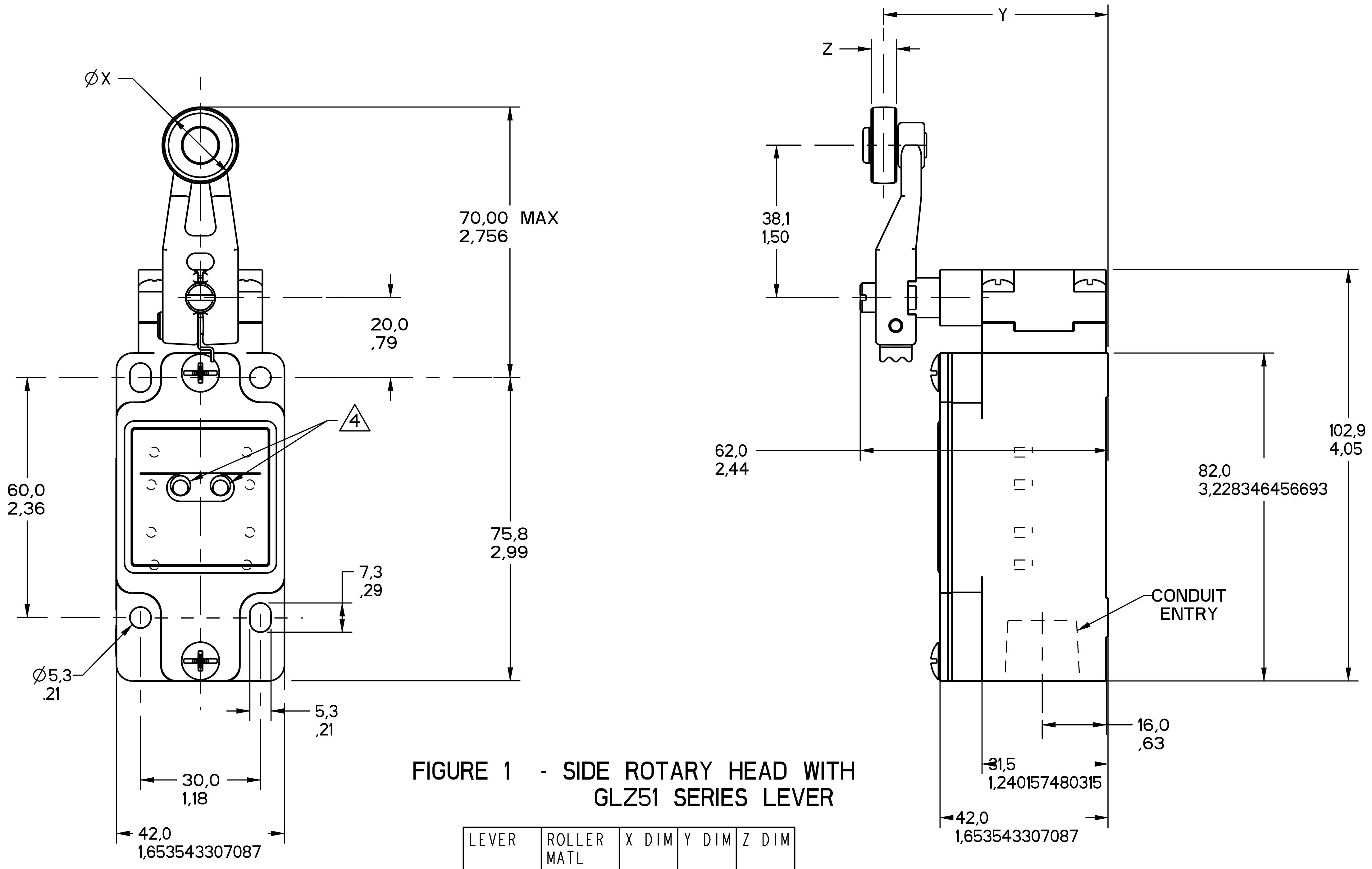
M GL SERIES CHART 1

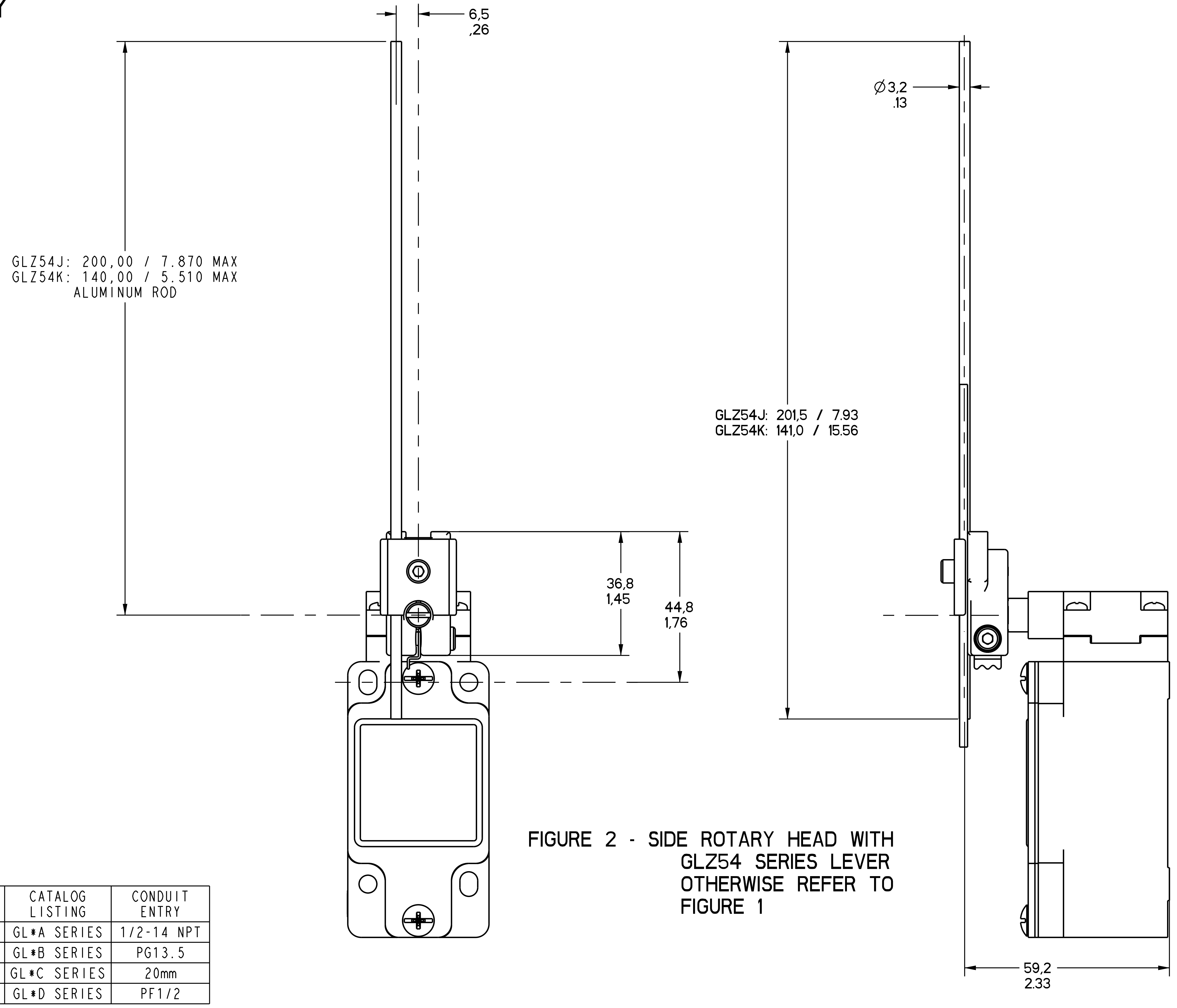
SIDE ROTARY



ØX
70,00 MAX
2,756
20,0
,79
4
60,0
2,36
75,8
2,99
7,3
,29
Ø5,3
,21
5,3
,21
30,0
1,18
42,0
1,653543307087
Y
Z
38,1
1,50
62,0
2,44
82,0
3,228346456693
102,9
4,05
CONDUIT
ENTRY
16,0
,63
31,5
1,240157480315
42,0
1,653543307087

FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

LEVER	ROLLER MATL	X DIM	Y DIM	Z DIM
GLZ51A	NYLON	19,1 .75	55,9 2.20	6,4 .25
GLZ51B	STEEL	19,1 .75	55,9 2.20	6,4 .25
GLZ51C	NYLON	24,5 1.00	59,1 2.33	12,7 .50
GLZ51Y	RUBBER	50,0 1.97	66,1 2.60	10,0 .39
GLZ51T	STAINLESS STEEL	19.1 .75	56.8 2.24	8.8 .345



6,5
,26
GLZ54J: 200,00 / 7.870 MAX
GLZ54K: 140,00 / 5.510 MAX
ALUMINUM ROD
36,8
1,45
44,8
1,76
Ø3,2
,13
GLZ54J: 201,5 / 7.93
GLZ54K: 141,0 / 15.56
59,2
2.33

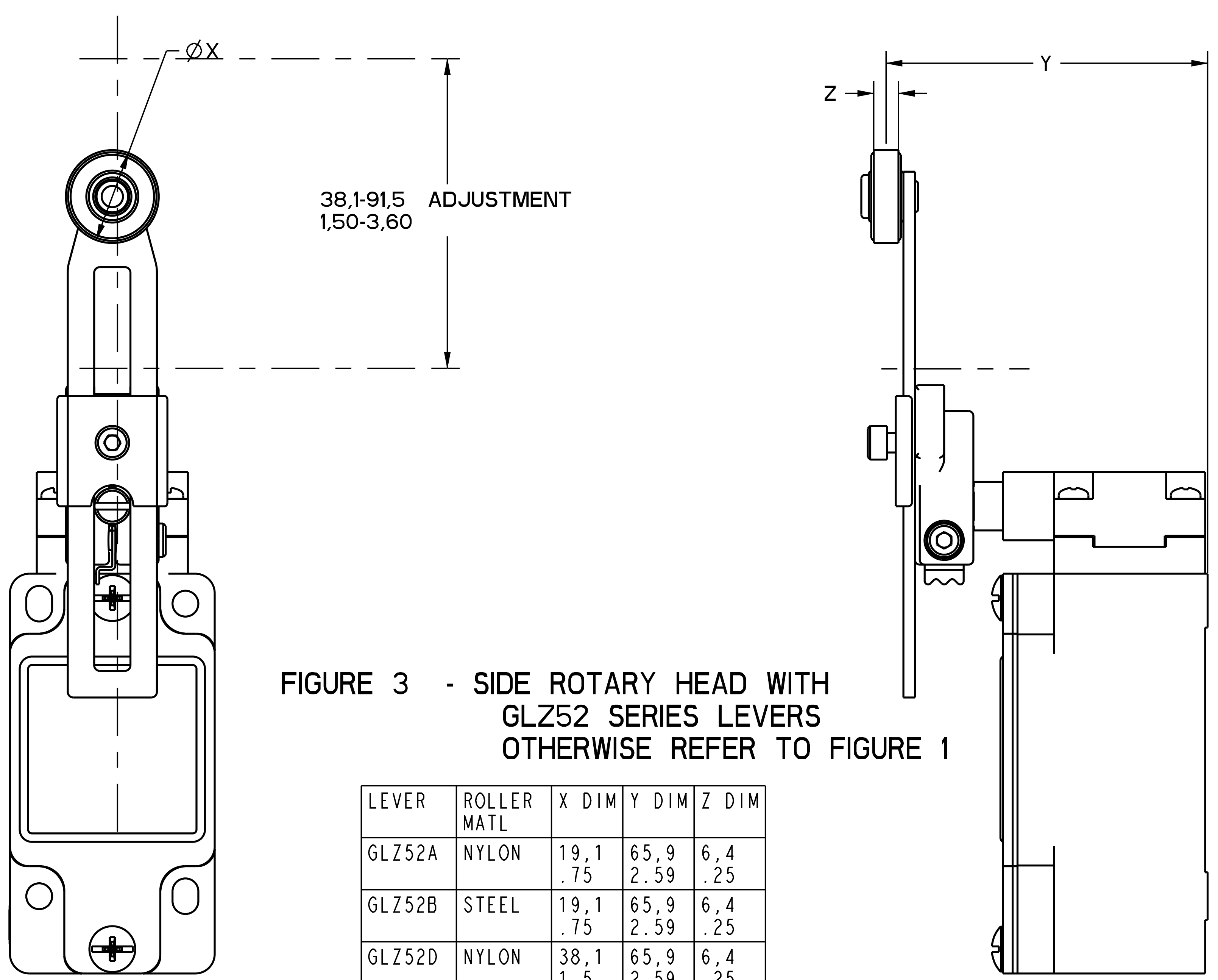
FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

FIGURE	CATALOG LISTING	CONDUIT ENTRY
1A	GL*A SERIES	1/2-14 NPT
1B	GL*B SERIES	PG13.5
1C	GL*C SERIES	20mm
1D	GL*D SERIES	PF1/2

ELECTRICAL RATING 5 8				GOLD PLATED CONTACTS
AC		DC		
A600 Ue	AC15 Ie	Q300 Ue	DC13 Ie	
(VOLTS)	(AMPS)	(VOLTS)	(AMPS)	
120	6	24	2.8	1V 10µA MIN 50V 100mA MAX
240	3	125	.55	
380	1.9	250	.27	
480	1.5			
500	1.4			
600	1.2			

ENVIRONMENTAL RATING
IP67 NEMA/UL TYPES 1, 4, 12, 13

CATALOG LISTING	BODY DIMENSIONS, FIGURE	HEAD DIMENSIONS, FIGURE	HEAD ACTUATION, FIGURE
GLA****	1	N/A	N/A
GLF****	1	N/A	N/A
GLH****	1	N/A	N/A
GL*A***	1A	N/A	N/A
GL*B***	1B	N/A	N/A
GL*C***	1C	N/A	N/A
GL*D***	1D	N/A	N/A
GL****A1*	1	1	8
GL****A2*	1	3	9
GL****A4*	1	2	10
GL****A5*	1		8
GL****B	1	4	11
GL****C	1	5	13A, 13B
GL****D	1	6	14A, 14B
GL****E7A	1	7A	12
GL****E7B	1	7	12
GL****E7C	1	7E	15
GL****E7D	1	7B	12
GL****K8A	1	7C	15
GL****K8B	1	7D	15
GL****K8C	1	7	15



ØX
38,1-91,5 ADJUSTMENT
1,50-3,60
Z
Y

FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

LEVER	ROLLER MATL	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	50,0 1.97	68,8 2.71	10,0 .39

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, Ve 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

8 THE MAXIMUM VOLTAGE, Ve OF "06" AND "36" BASIC SWITCH CODE IS 300V (A300)

9 TEMPERATURE RANGE
(ALL PRODUCTS EXCEPT w/SIDE ROTARY OPERATING HEAD)
OPERATING: -25°C TO +85°C / -13°F TO +185°F
STORAGE: -40°C TO +85°C / -40°F TO +185°F
(PRODUCTS w/SIDE ROTARY OPERATING HEAD)
OPERATING: -40°C TO +85°C / -40°F TO +185°F
STORAGE: -40°C TO +85°C / -40°F TO +185°F

10 - MOST LISTINGS WITHIN THIS SERIES CARRY UL, CSA, CE, AND CCC CERTIFICATIONS.

ANSI Y14.5M-1982 APPLIES

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a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE 1:1
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X,X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES ANGLES		±2°		
DESIGN UNITS	SI METRIC ☒		US CUSTOMARY ☐	

WEIGHT

M GL SERIES CHART 1
1 OF 13
PR-20782
09MAR19
RS
PTC/CAD

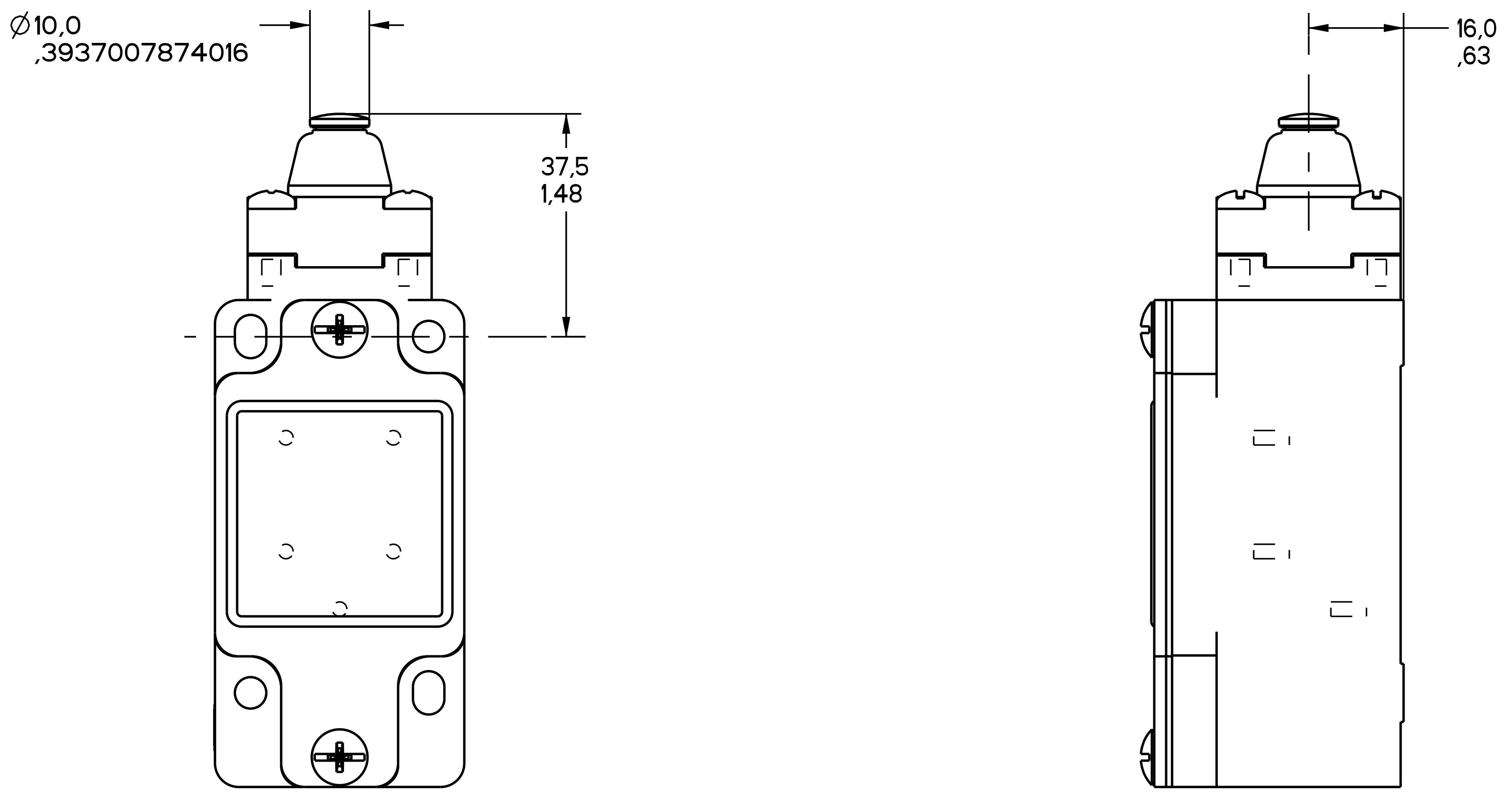

FIGURE 4 - TOP PIN PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

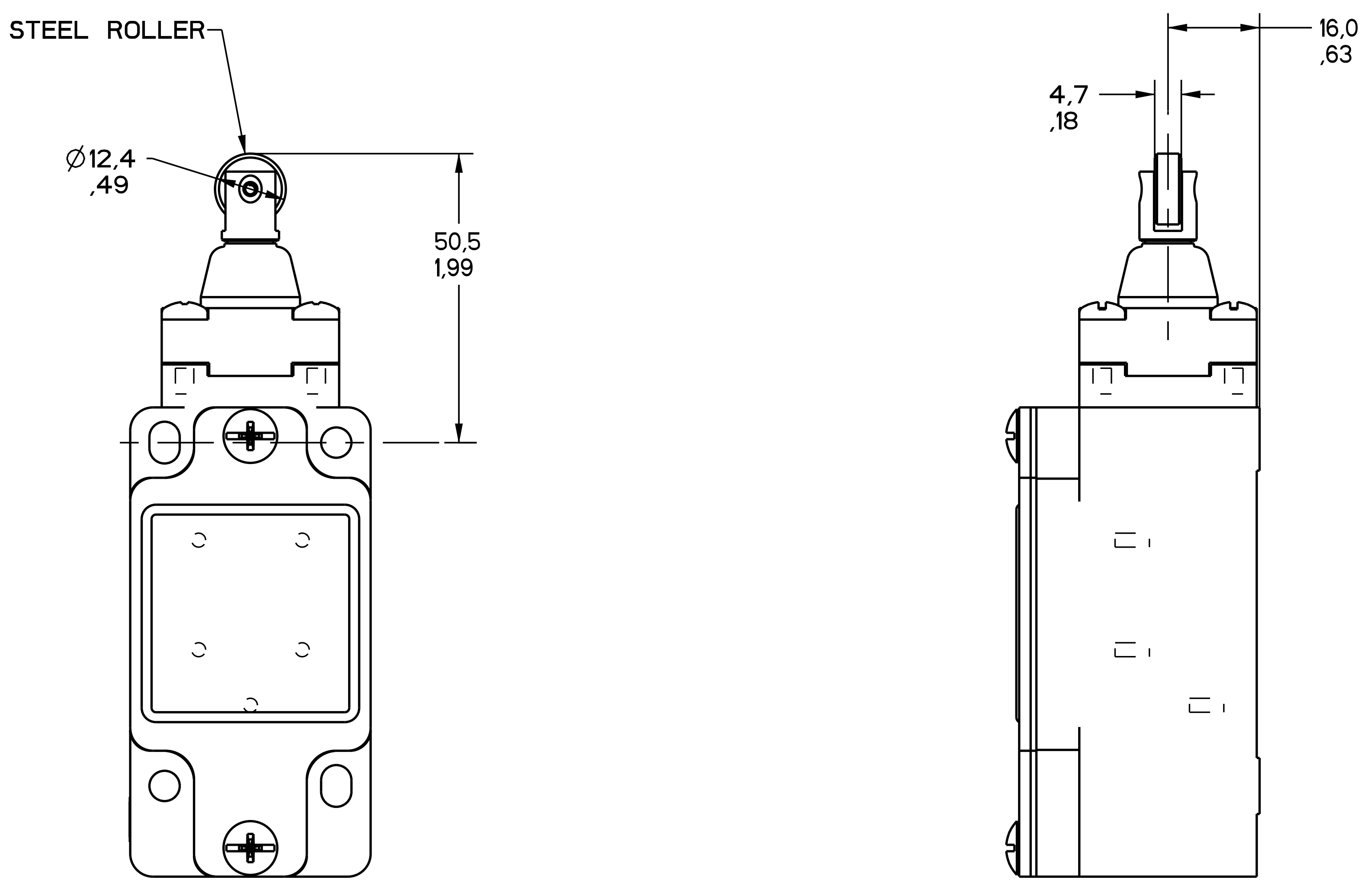

FIGURE 5 - TOP ROLLER PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

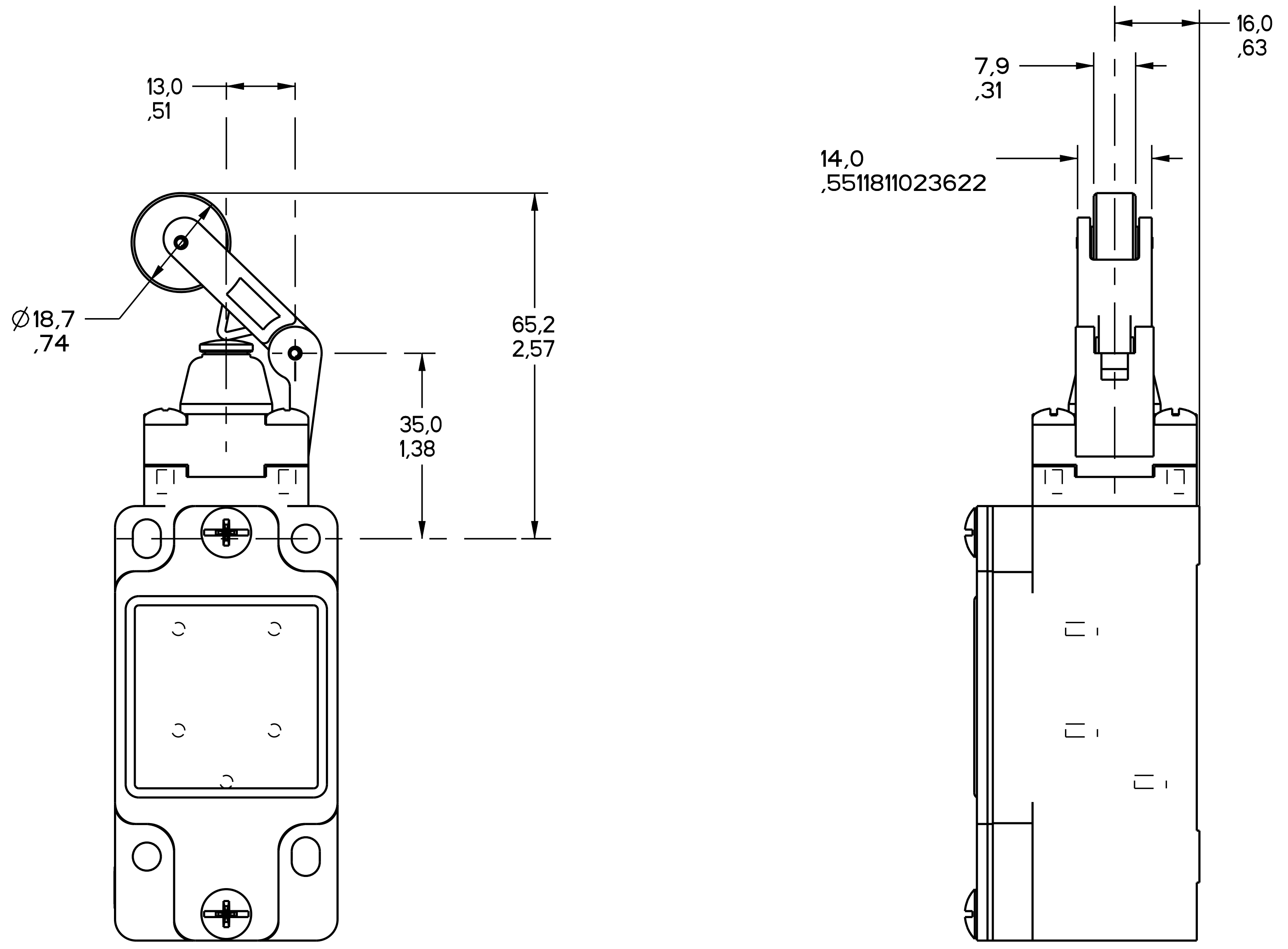

FIGURE 6 - TOP LEVER HEAD,
OTHERWISE REFER TO
FIGURE 1

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CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1:1

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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X,X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

M GL SERIES CHART 1
DRAWING NUMBER
PAGE 2 OF 13
ISSUE 18
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GLH
CHECK
26AUG93
L S
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PTC/CAD

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J	0037216
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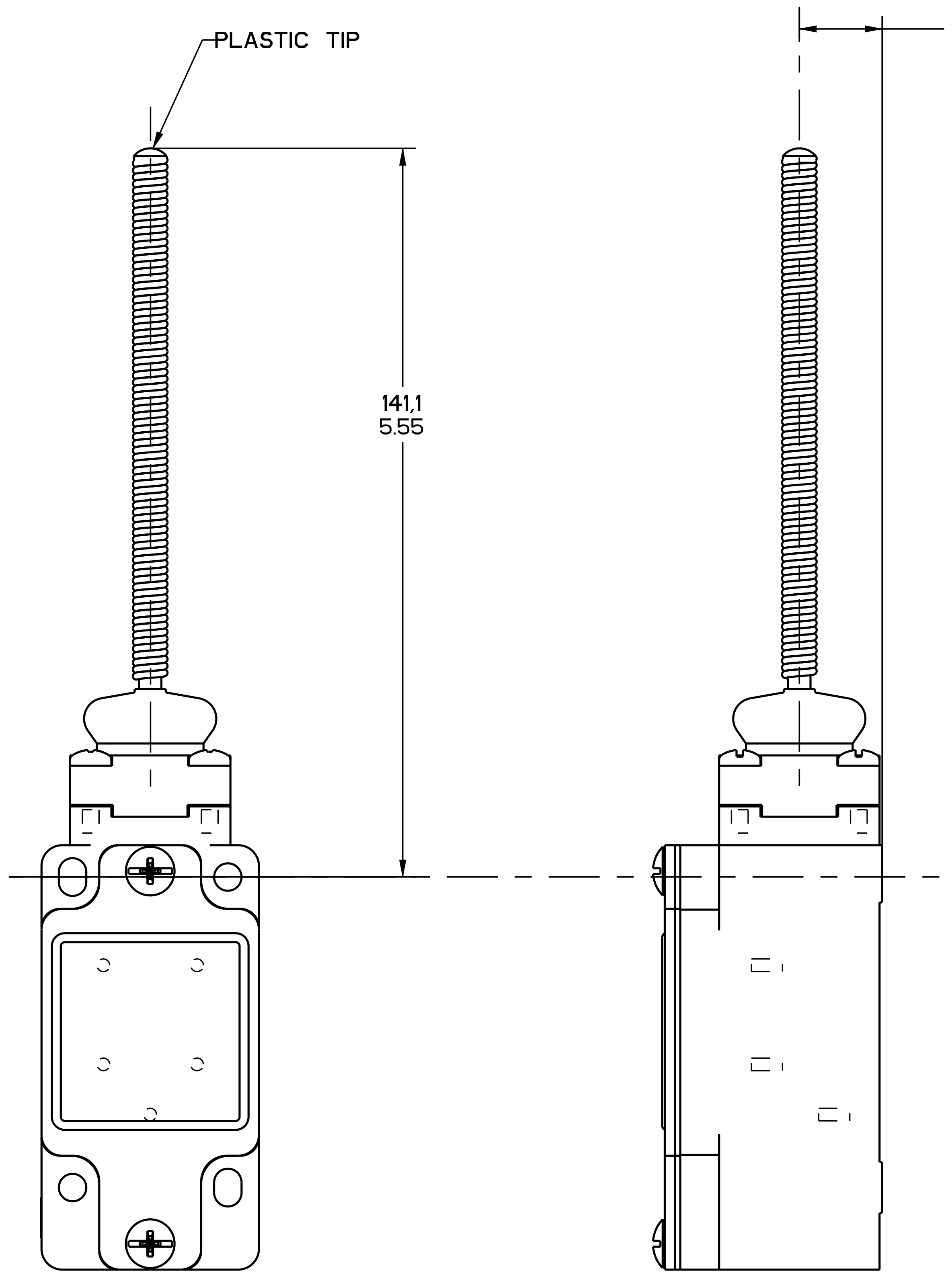

FIGURE 7 - WOBBLE HEAD, AND CAT WISKER HEAD
COIL ACTUATOR,
OTHERWISE REFER TO
FIGURE 1

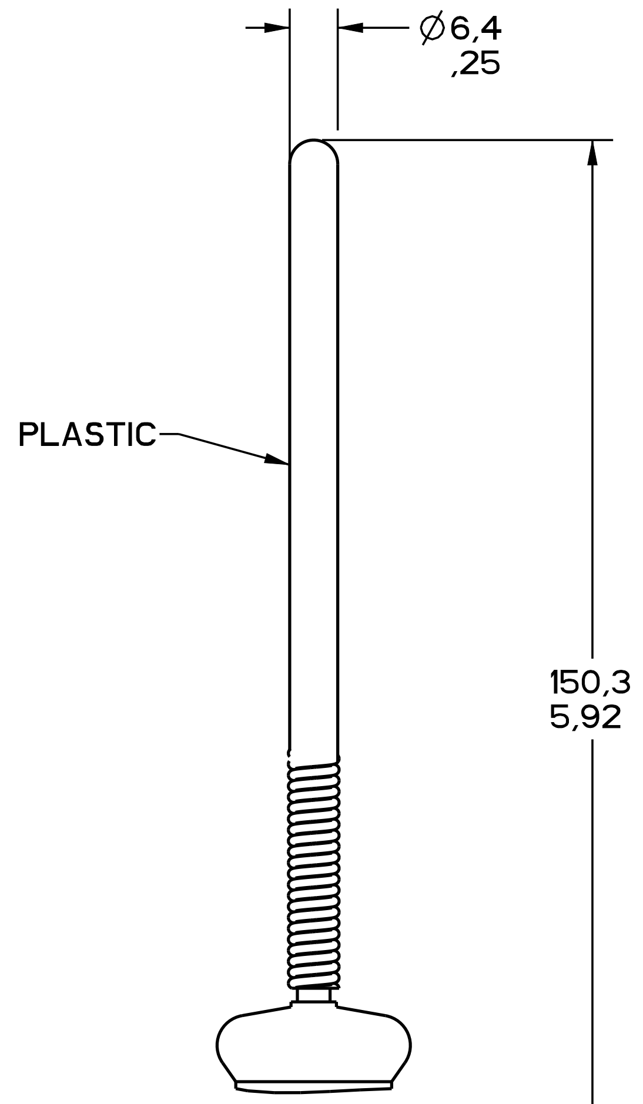

FIGURE 7A -

WOBBLE HEAD,
PLASTIC ACTUATOR,
OTHERWISE SAME AS FIGURE 7

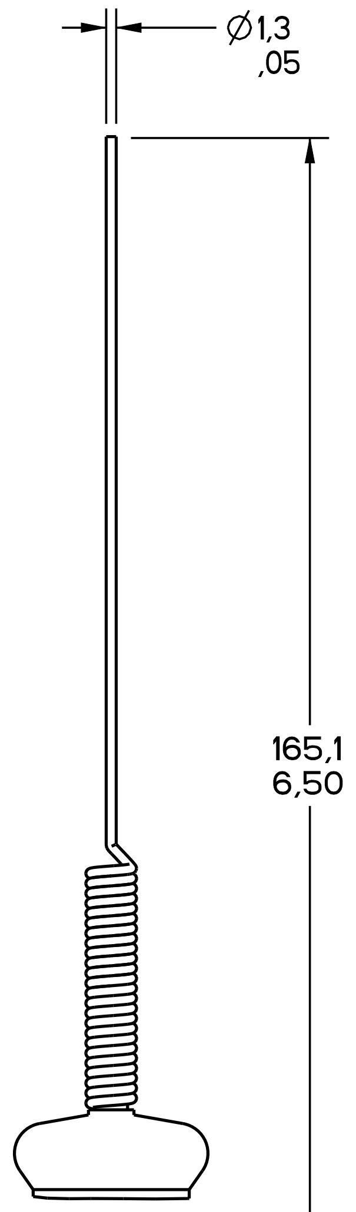

FIGURE 7B -

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

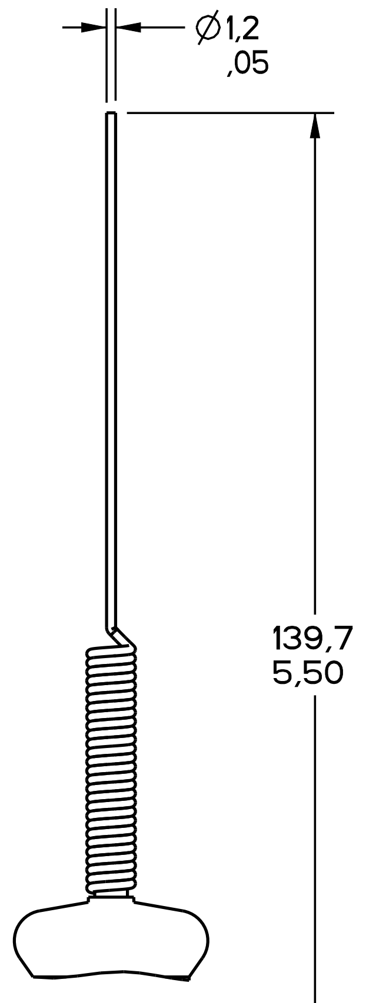

FIGURE 7C -

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

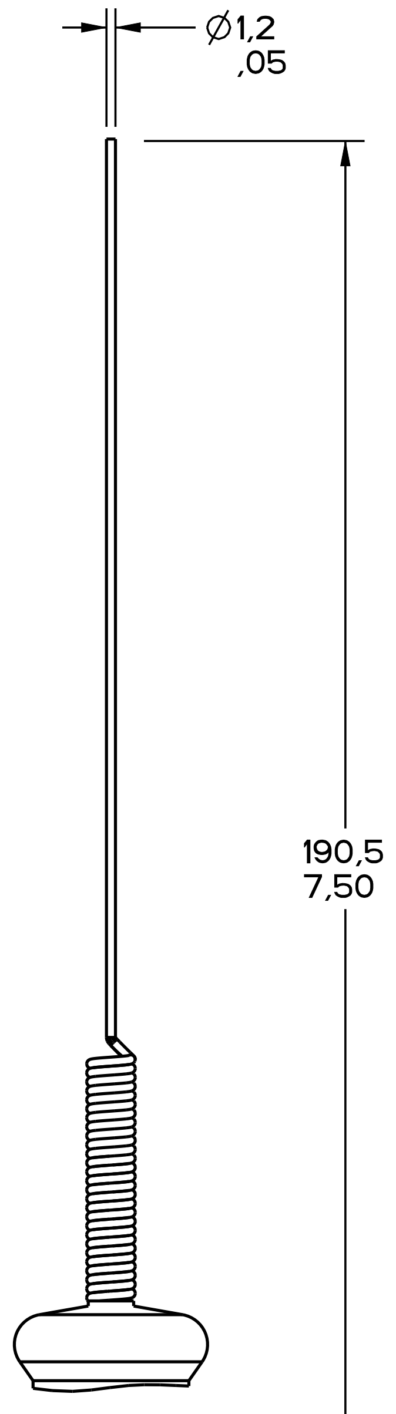

FIGURE 7D -

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

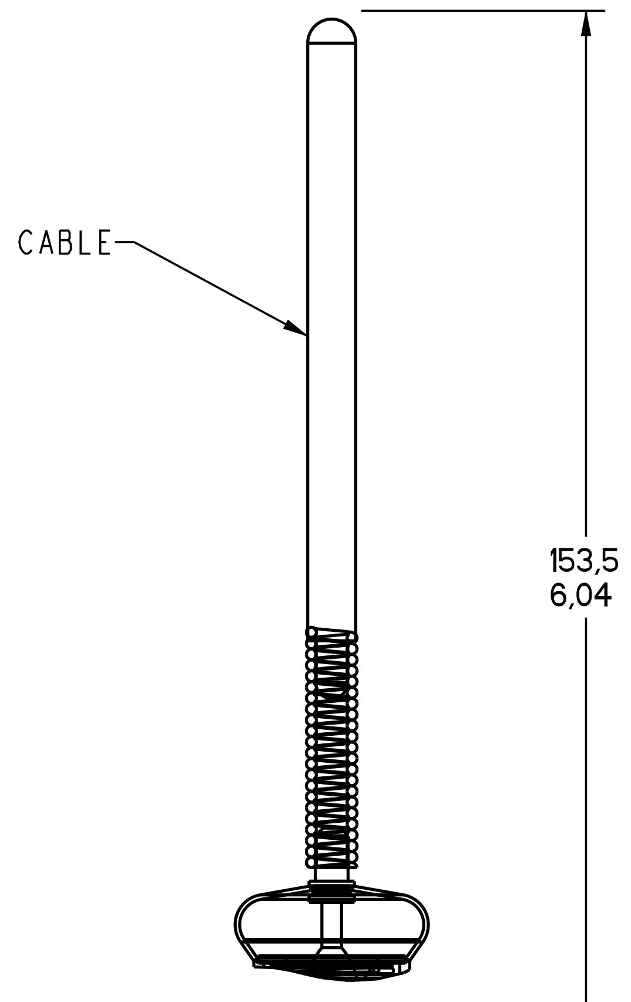

FIGURE 7E -

CABLE WOBBLE
ACTUATOR, OTHERWISE
SAME AS FIGURE 7

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CATALOG LISTING
GL SERIES CHART 1

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION

SCALE 1:1

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ONE PLACE	X,X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES	±2°			

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

GL SERIES CHART 1
PAGE 3 OF 13
DRAWING NUMBER
RELEASE NO. PR-21557
REPLACES
ISSUE 18 09MAR19
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DRAWN PTC/CAD A V 17 MAY 96
CHECK S A V 7 MAY 96
CHECK CMH 05OCT10

REVISIONS	
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G 0002986	RS 20JAN04
H 0023759	RKP 07AUG06
J 0037216	BS 08FEB08
K 0043629	SS 02SEP08
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N 0094570	SBH 12OCT12
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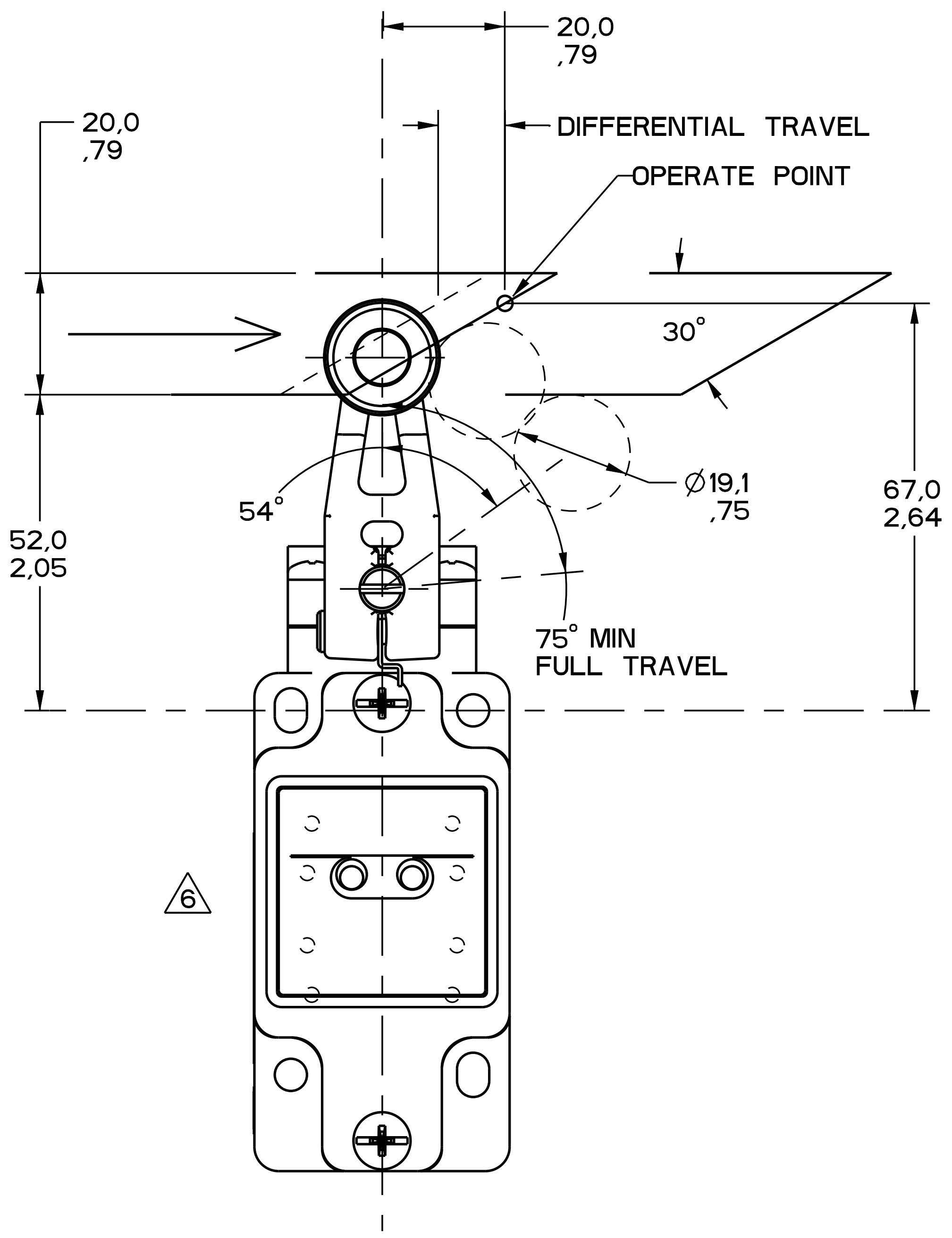
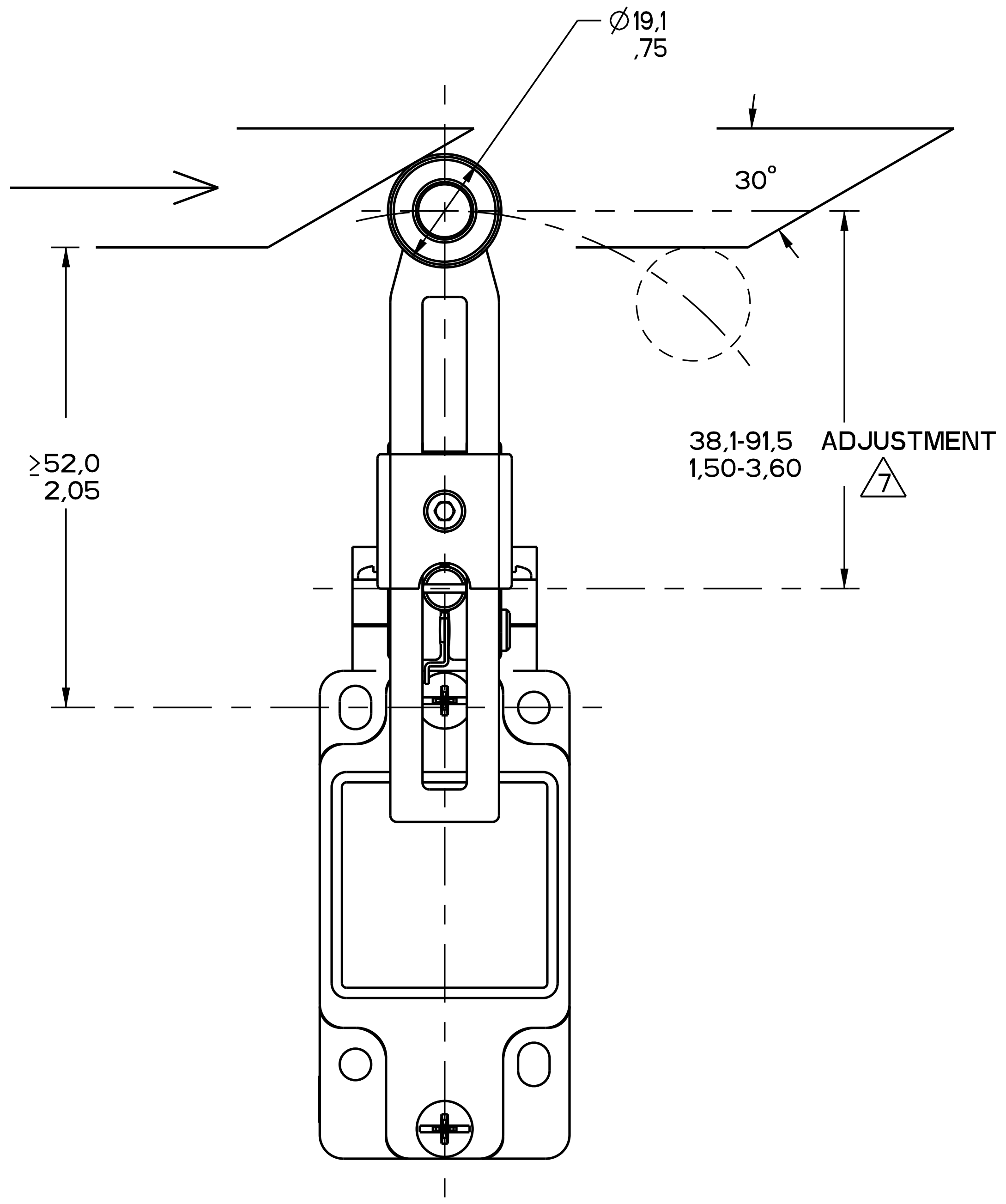


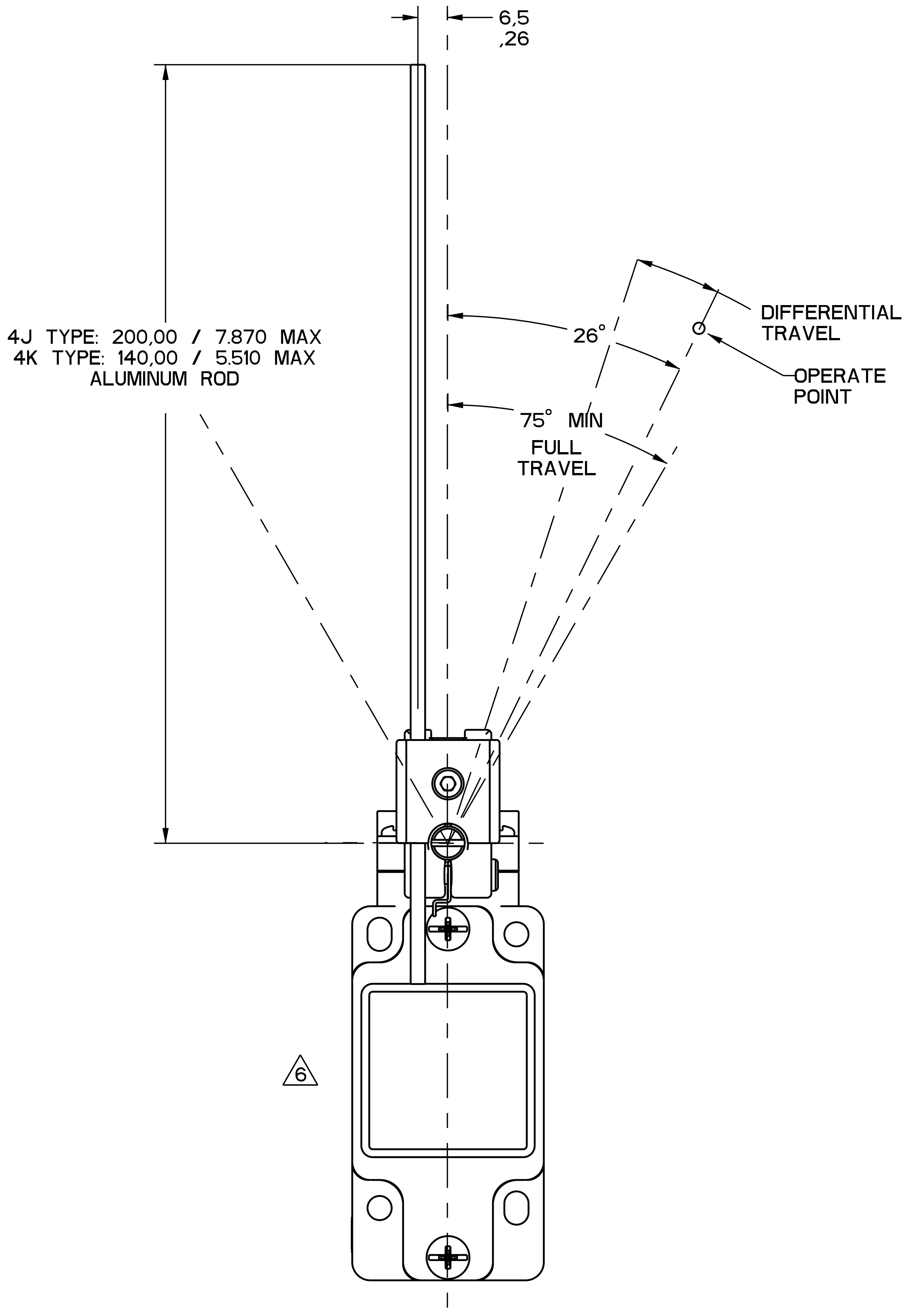
20,0
,79
20,0
,79
DIFFERENTIAL TRAVEL
OPERATE POINT
30°
54°
Ø19,1
,75
52,0
2,05
67,0
2,64
75° MIN
FULL TRAVEL
6

FIGURE 8



Ø19,1
,75
30°
≥52,0
2,05
38,1-91,5 ADJUSTMENT
1,50-3,60
7

FIGURE 9



6,5
,26
4J TYPE: 200,00 / 7.870 MAX
4K TYPE: 140,00 / 5.510 MAX
ALUMINUM ROD
26°
75° MIN
FULL
TRAVEL
DIFFERENTIAL
TRAVEL
OPERATE
POINT
6

FIGURE 10

THIRD ANGLE PROJECTION

SCALE 1:1

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NO PLACES	X	1/.04	X,X	0.8/.03
ONE PLACE	X,X	0.4/.016	X,XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X,XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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CATALOG LISTING
GL SERIES CHART 1

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M GL SERIES CHART 1
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PAGE 4 OF 13
RELEASE NO. PR-20782
REPLACES
18
09MAR19 RS
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A V 27MAR96
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REVISIONS
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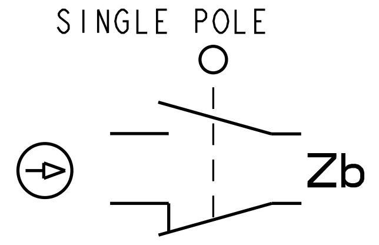
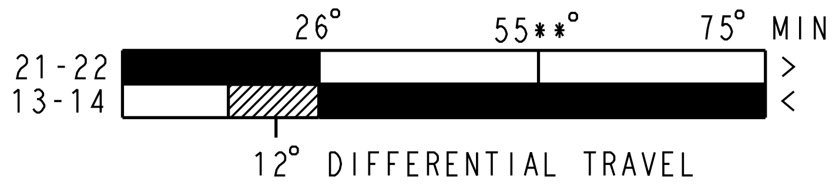
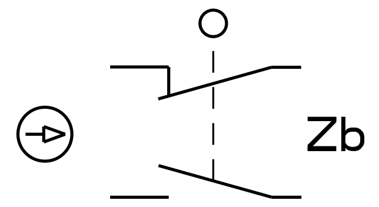
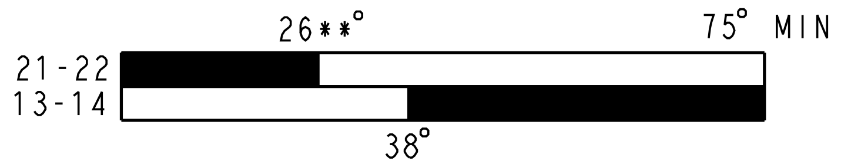
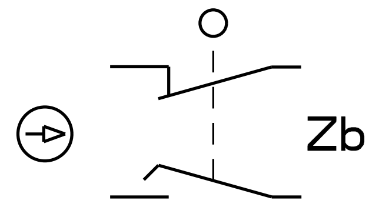
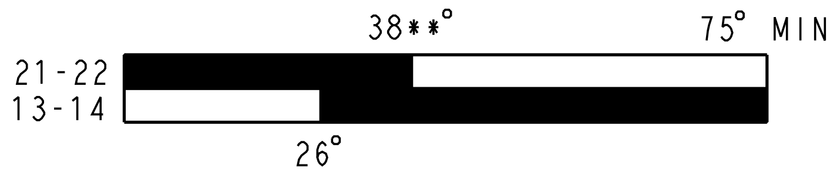
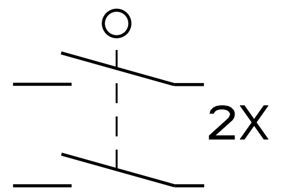
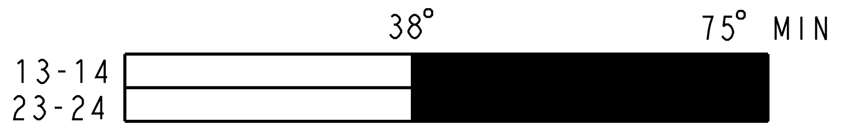
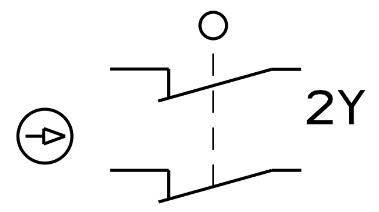
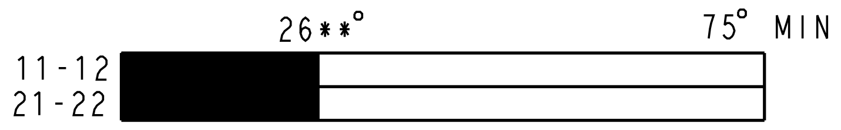
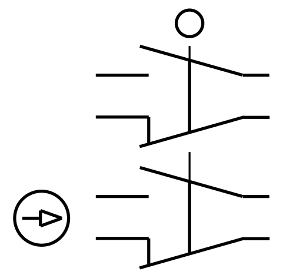
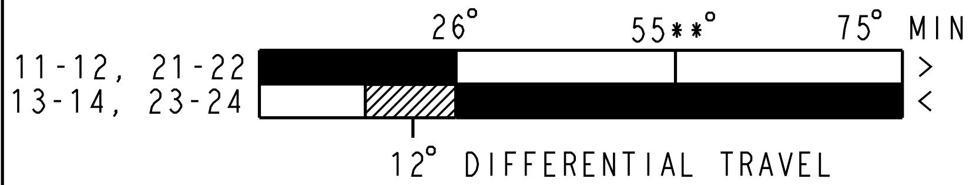
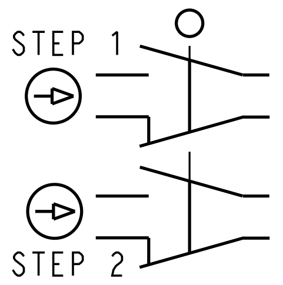
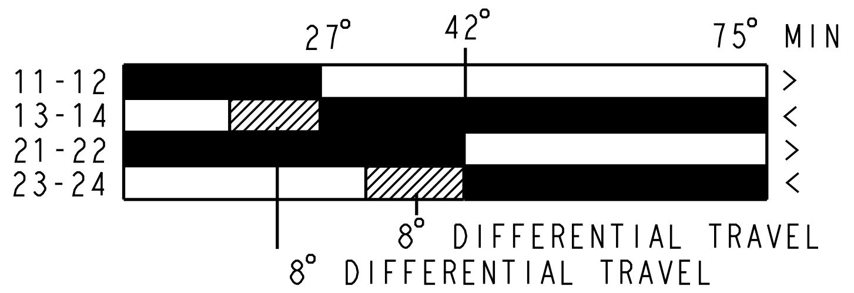
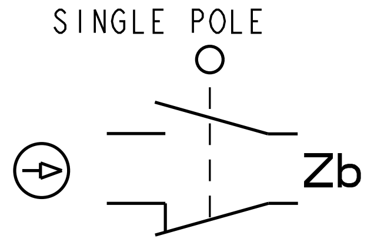
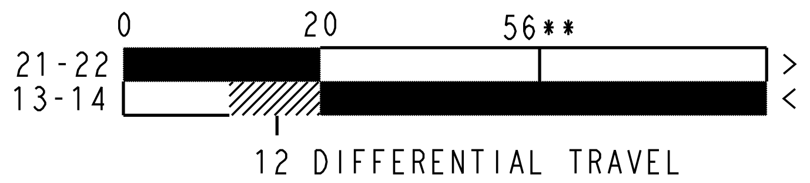
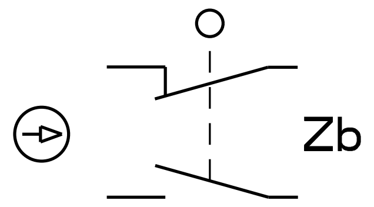
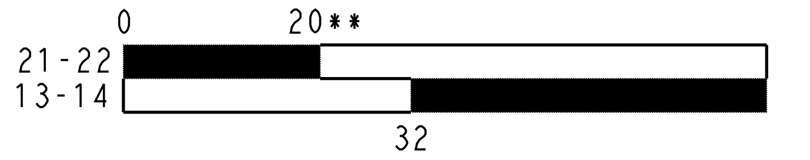
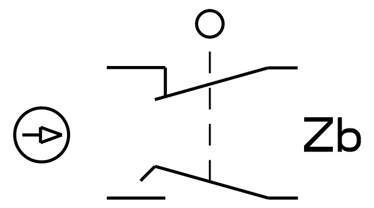
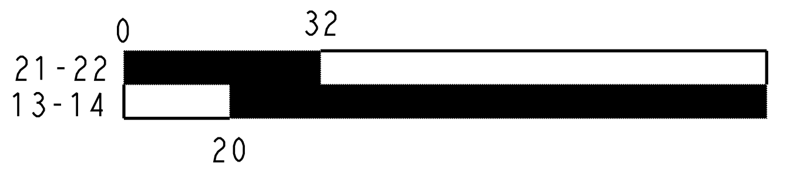
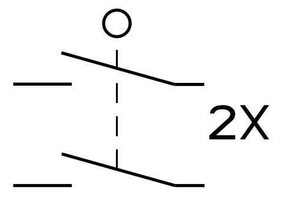
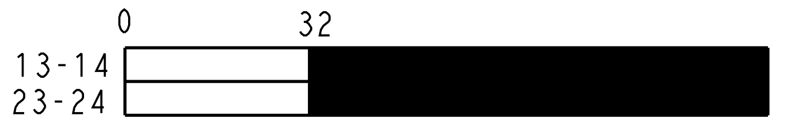
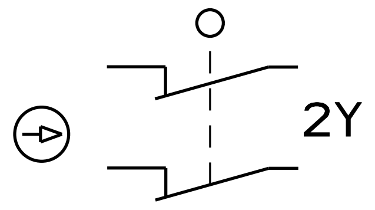
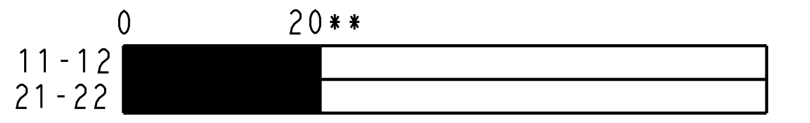
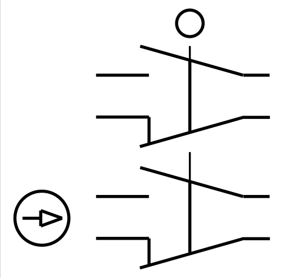
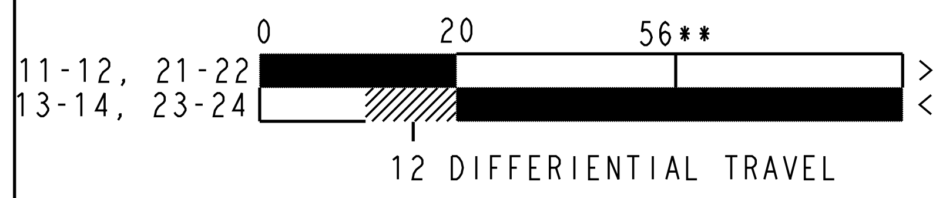
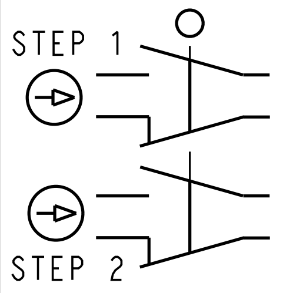
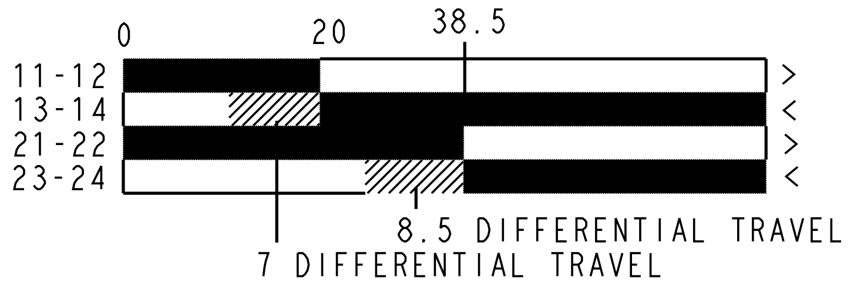
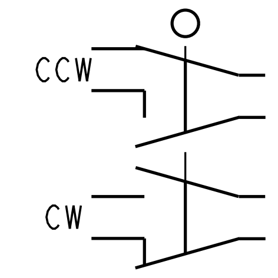
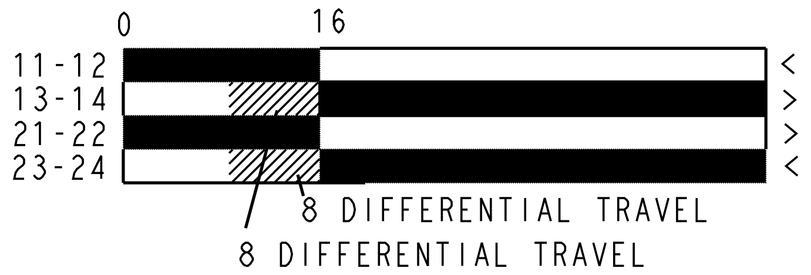
FIGURES 8, 9, 10 SIDE ROTARY HEAD, ANGULAR ACTUATION

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 $\frac{N\text{-}m}{LB\text{-}IN}$	MAXIMUM DISCONNECT TORQUE $\frac{N\text{-}m}{LB\text{-}IN}$	MAX OPERATE DEGREE/S	MIN OPERATE DEGREE/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01A GL**07A	SNAP - ACTION CONTACTS SINGLE POLE 	 26° 55**° 75° MIN 21-22 13-14 > < 12° DIFFERENTIAL TRAVEL	$\frac{.330}{2.9}$	$\frac{.385}{3.4}$	1290	13	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 	 26**° 75° MIN 21-22 13-14 38°	$\frac{.330}{2.9}$	$\frac{.385}{3.4}$	1290	13	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 	 38**° 75° MIN 21-22 13-14 26°	$\frac{.330}{2.9}$	$\frac{.400}{3.5}$	1290	13	250
GL**05A GL**35A	SLOW ACTING 	 38° 75° MIN 13-14 23-24	$\frac{.330}{2.9}$	$\frac{.385}{3.4}$	1290	13	250
GL**06A GL**36A	SLOW ACTING 	 26**° 75° MIN 11-12 21-22	$\frac{.330}{2.9}$	$\frac{.385}{3.4}$	1290	13	250
GL**20A GL**22A GL**24A GL**32A	 SNAP ACTION CONTACTS DOUBLE POLE	 26° 55**° 75° MIN 11-12, 21-22 13-14, 23-24 > < 12° DIFFERENTIAL TRAVEL	$\frac{.330}{2.9}$	$\frac{.385}{3.4}$	1290	13	250
GL**21A GL**25A GL**28A GL**31A	 STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 27° 42° 75° MIN 11-12 13-14 21-22 23-24 > < > < 8° DIFFERENTIAL TRAVEL 8° DIFFERENTIAL TRAVEL	$\frac{.330}{2.9}$	N/A	1290	13	250

SIDE ROTARY HEAD, CAM ACTUATION PER EN50041, FIGURES 8 AND 9 ⚠7

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 $\frac{N}{LB}$	MAXIMUM DISCONNECT FORCE $\frac{N}{LB}$	MAX OPERATE VEL $\frac{M/S}{in/S}$	MIN OPERATE VEL $\frac{mm/S}{in/S}$	MAX OPERATE FREQUENCY OPS/MIN
GL**01A GL**07A	SNAP - ACTION CONTACTS SINGLE POLE 	 0 20 56** 21-22 13-14 > < 12 DIFFERENTIAL TRAVEL	$\frac{9.7}{2.2}$	$\frac{11.4}{2.6}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 	 0 20** 21-22 13-14 32	$\frac{9.7}{2.2}$	$\frac{11.4}{2.6}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 	 0 32 21-22 13-14 20	$\frac{9.7}{2.2}$	$\frac{11.4}{2.6}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**05A GL**35A	SLOW ACTING 	 0 32 13-14 23-24	$\frac{9.7}{2.2}$	$\frac{11.4}{2.6}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**06A GL**36A	SLOW ACTING 	 0 20** 11-12 21-22	$\frac{9.7}{2.2}$	$\frac{11.4}{2.6}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**20A GL**22A GL**24A GL**32A	 SNAP ACTION CONTACTS DOUBLE POLE	 0 20 56** 11-12, 21-22 13-14, 23-24 > < 12 DIFFERIENTIAL TRAVEL	$\frac{9.7}{2.2}$	$\frac{11.8}{2.7}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**21A GL**25A GL**28A GL**31A	 STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 0 20 38.5 11-12 13-14 21-22 23-24 > < > < 8.5 DIFFERENTIAL TRAVEL 7 DIFFERENTIAL TRAVEL	$\frac{9.7}{2.2}$	N/A	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250
GL**26J GL**27J GL**29J GL**30J	 SNAP ACTION CONTACTS DOUBLE POLE CENTER NEUTRAL	 0 16 11-12 13-14 21-22 23-24 < > > < 8 DIFFERENTIAL TRAVEL 8 DIFFERENTIAL TRAVEL	$\frac{9.7}{2.2}$	N/A	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250

THIRD ANGLE PROJECTION

SCALE -

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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES				

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H 0023759 RKP 07AUG06
J 0037216 BS 08FEB08
K 0043629 SS 12SEP08
L 0048605 VKS 09FEB09
M 0070059 DN 05OCT10
N 0094570 SBH 12OCT12
P 0132255 RGA 02AUG16
R 0155503 BMB 09MAR19

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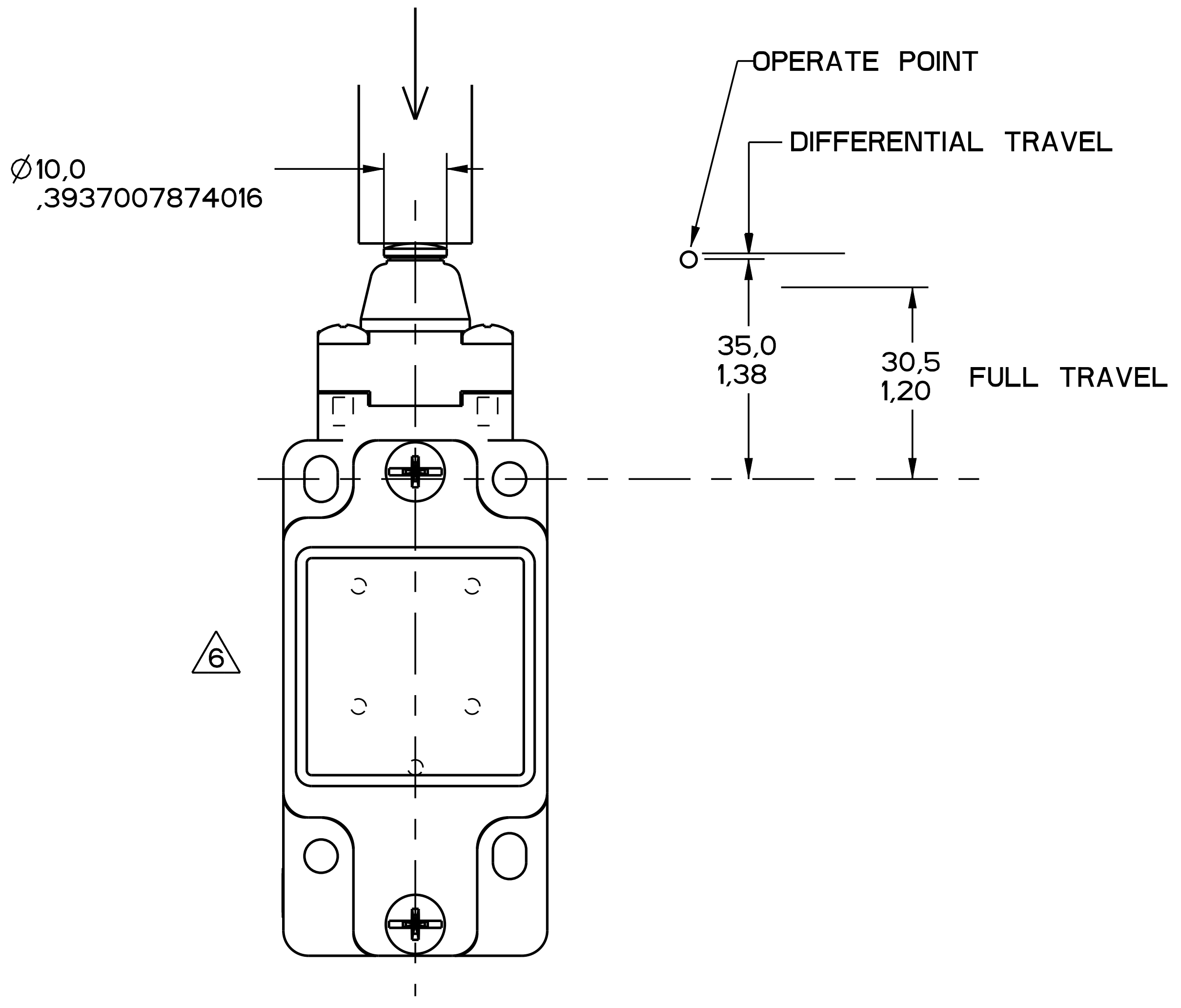
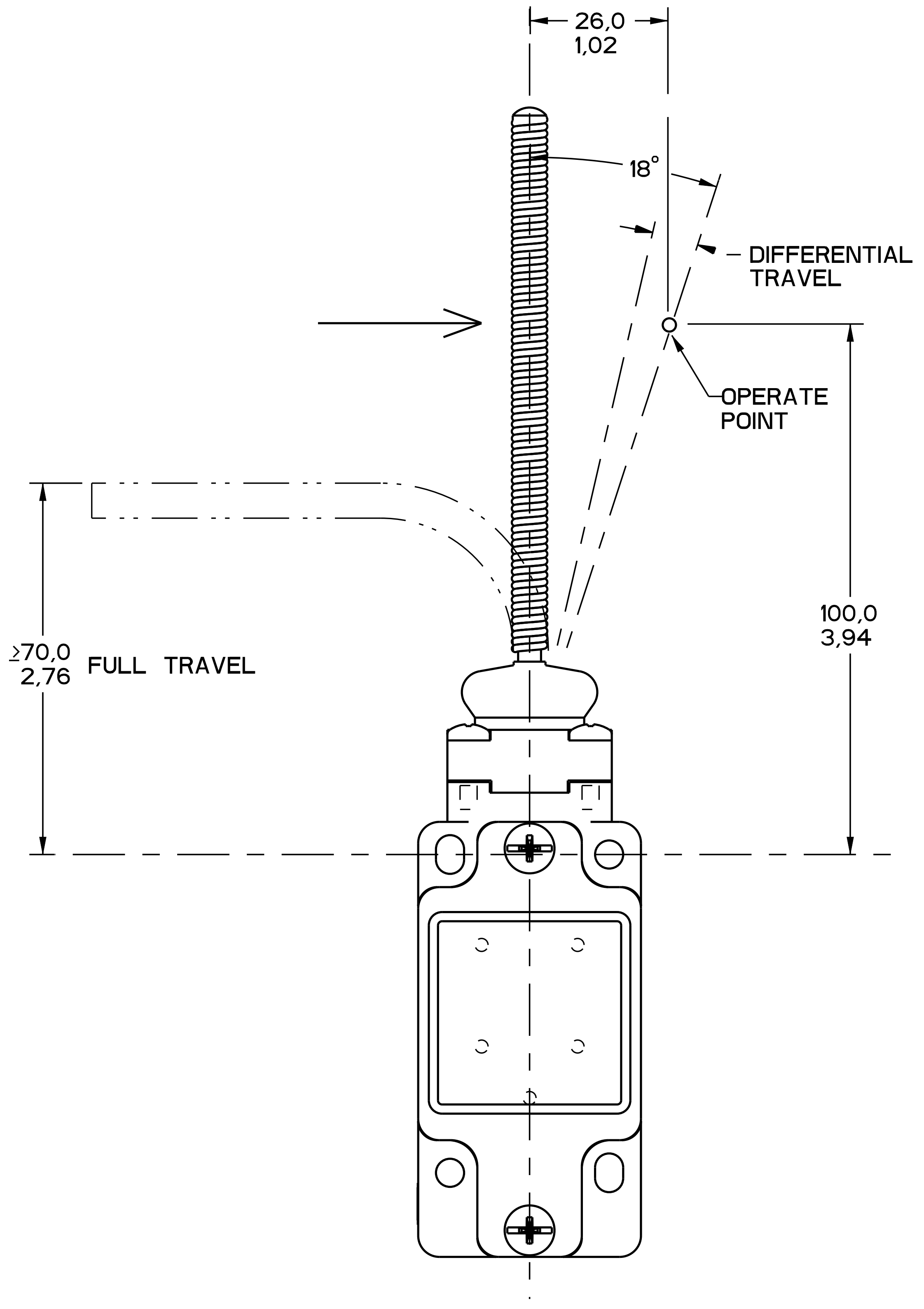


Ø10,0
,3937007874016
OPERATE POINT
DIFFERENTIAL TRAVEL
35,0
1,38
30,5
1,20
FULL TRAVEL
6

FIGURE 11



26,0
1,02
18°
DIFFERENTIAL
TRAVEL
OPERATE
POINT
≥70,0
2,76
FULL TRAVEL
100,0
3,94

FIGURE 12

THIRD ANGLE PROJECTION

SCALE 1:1

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NO PLACES	X	1/.04	X,X	0.8/.03
ONE PLACE	X,X	0.4/.016	X,XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X,XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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K	0043629	SS 12SEP08
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FIGURES 11, PIN PLUNGER HEAD, LINEAR ACTUATION

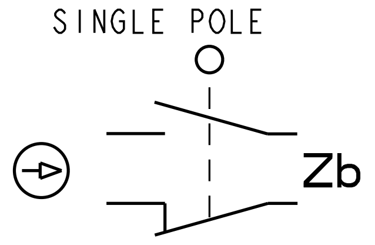
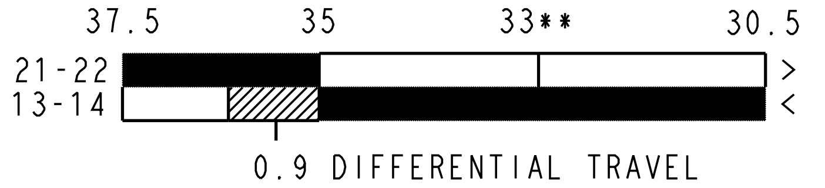
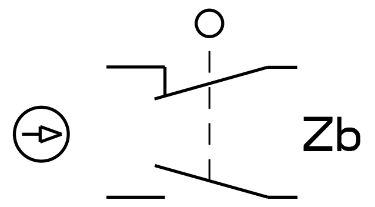
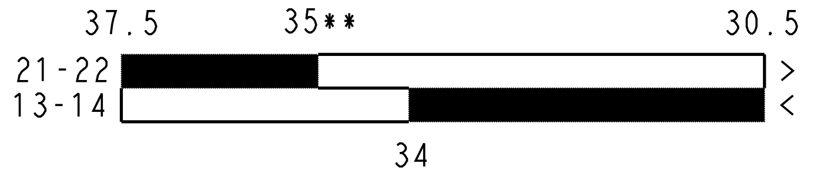
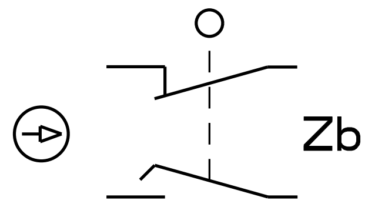
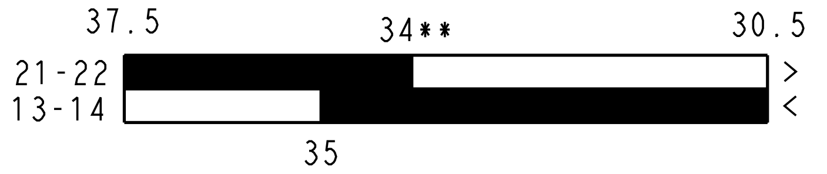
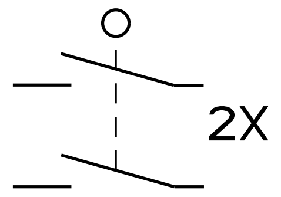
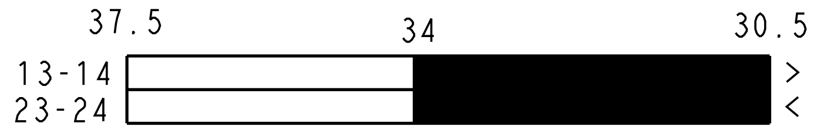
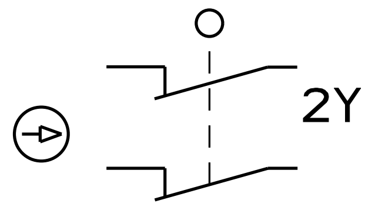
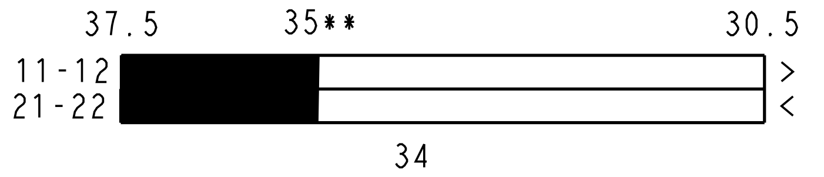
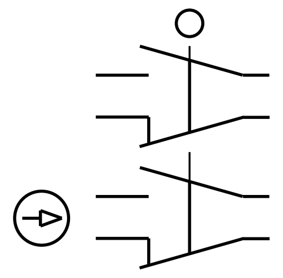
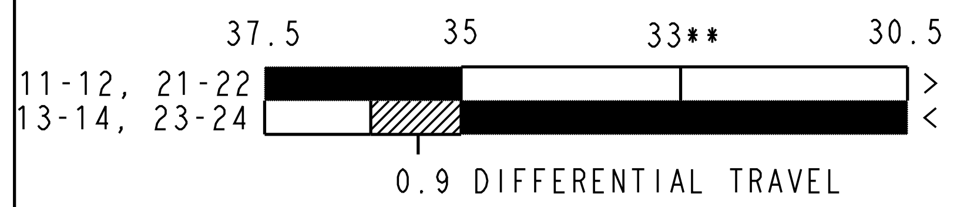
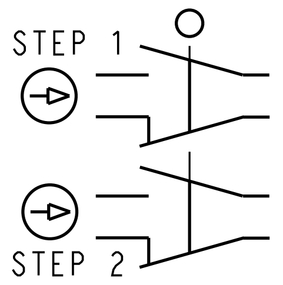
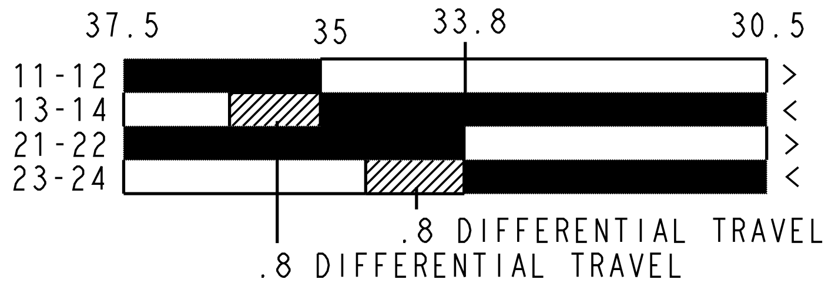
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■- CONTACT CLOSED, □- CONTACT OPEN, ▨- CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N / LB	MAXIMUM DISCONNECT FORCE N / LB	MAX OPERATE VEL M/S / in/S	MIN OPERATE VEL mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01B GL**07B	SNAP - ACTION CONTACTS SINGLE POLE 	 37.5 35 33** 30.5 21-22 13-14 0.9 DIFFERENTIAL TRAVEL	16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250
GL**03B GL**33B	SLOW ACTING BREAK BEFORE MAKE 	 37.5 35** 30.5 21-22 13-14 34	16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250
GL**04B GL**34B	SLOW ACTING MAKE BEFORE BREAK 	 37.5 34** 30.5 21-22 13-14 35	16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250
GL**05B GL**35B	SLOW ACTING 	 37.5 34 30.5 13-14 23-24	16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250
GL**06B GL**36B	SLOW ACTING 	 37.5 35** 30.5 11-12 21-22 34	16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250
GL**20B GL**22B GL**24B GL**32B	 SNAP ACTION CONTACTS DOUBLE POLE	 37.5 35 33** 30.5 11-12, 21-22 13-14, 23-24 0.9 DIFFERENTIAL TRAVEL	16 / 3.6	37 / 8.2	0.1 / 3.9	1.0 / .04	250
GL**21B GL**25B GL**28B GL**31B	 STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 37.5 35 33.8 30.5 11-12 13-14 21-22 23-24 .8 DIFFERENTIAL TRAVEL .8 DIFFERENTIAL TRAVEL	16 / 3.6	N/A	0.1 / 3.9	1.0 / .04	250

FIGURE 12, WOBBLE HEAD, ANGULAR ACTUATION

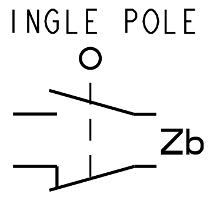
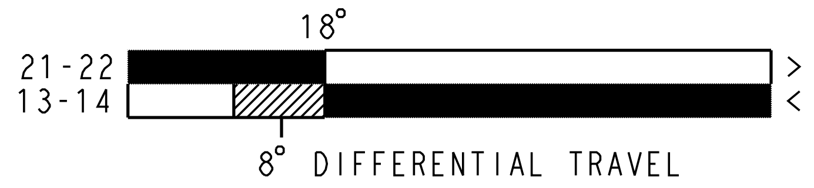
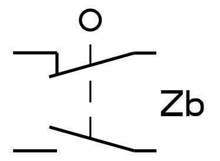
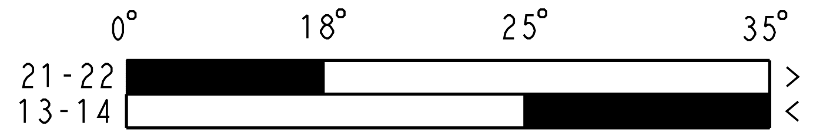
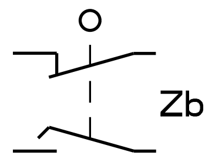
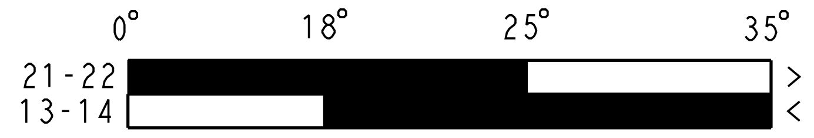
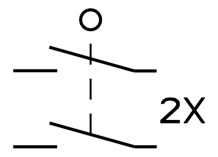
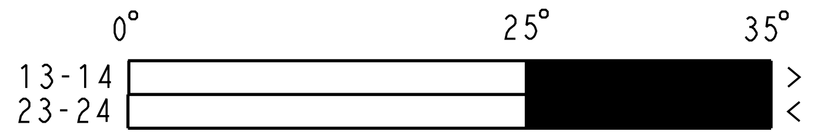
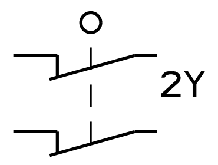
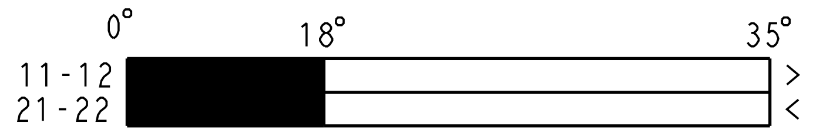
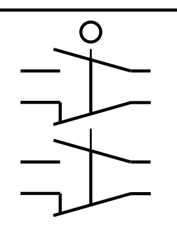
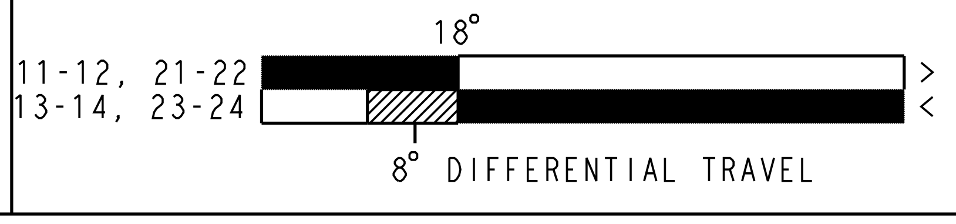
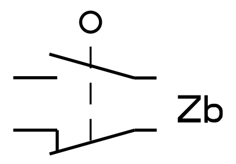
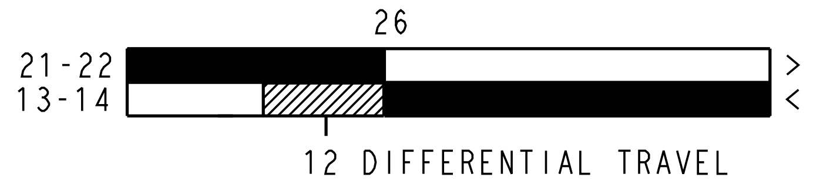
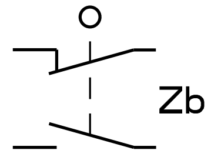
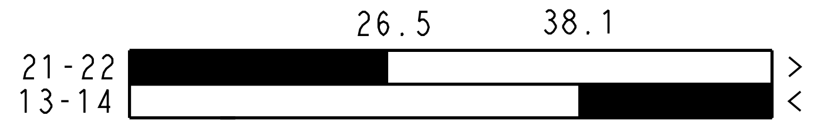
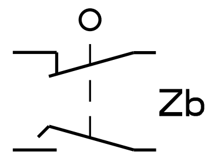
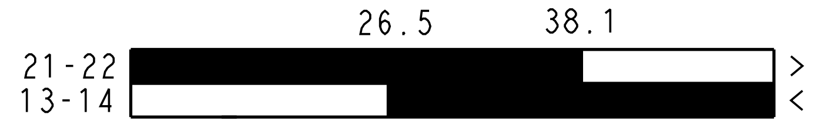
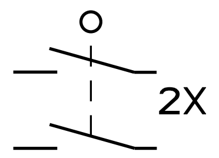
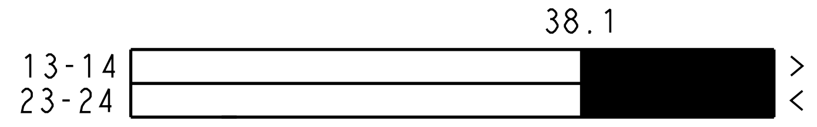
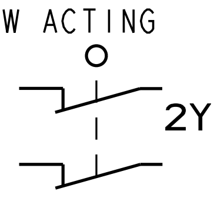
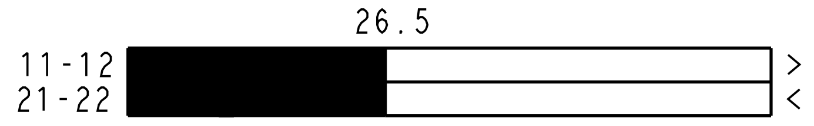
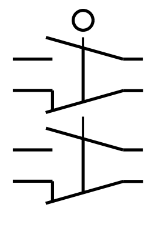
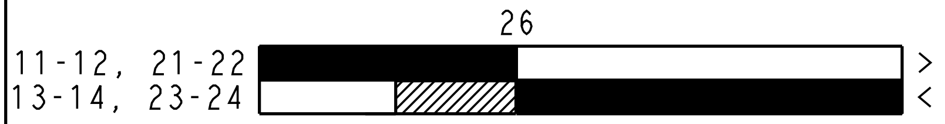
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■- CONTACT CLOSED, □- CONTACT OPEN, ▨- CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING TORQUE N-m / LB/in	MAXIMUM DISCONNECT TORQUE N-m / LB/in	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**01E GL**07E	SNAP - ACTION CONTACTS SINGLE POLE 	 18° 21-22 13-14 8° DIFFERENTIAL TRAVEL	0.2 / 1.8	N/A	360	8	100
GL**03E GL**33E	SLOW ACTING BREAK BEFORE MAKE 	 0° 18° 25° 35° 21-22 13-14	0.2 / 1.8	N/A	360	8	100
GL**04E GL**34E	SLOW ACTING MAKE BEFORE BREAK 	 0° 18° 25° 35° 21-22 13-14	0.2 / 1.8	N/A	360	8	100
GL**05E GL**35E	SLOW ACTING 	 0° 25° 35° 13-14 23-24	0.2 / 1.8	N/A	360	8	100
GL**06E GL**36E	SLOW ACTING 	 0° 18° 35° 11-12 21-22	0.2 / 1.8	N/A	360	8	100
GL**20E GL**22E GL**24E GL**32E	 SNAP ACTION CONTACTS DOUBLE POLE	 18° 11-12, 21-22 13-14, 23-24 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 / 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**01E GL**07E	SNAP - ACTION CONTACTS SINGLE POLE 	 26 21-22 13-14 12 DIFFERENTIAL TRAVEL	2.5 / 0.6	N/A	.5 / 19.7	11 / .43	100
GL**03E GL**33E	SLOW ACTING BREAK BEFORE MAKE 	 26.5 38.1 21-22 13-14	2.5 / 0.6	N/A	.5 / 19.7	11 / .43	100
GL**04E GL**34E	SLOW ACTING MAKE BEFORE BREAK 	 26.5 38.1 21-22 13-14	2.5 / 0.6	N/A	.5 / 19.7	11 / .43	100
GL**05E GL**35E	SLOW ACTING 	 38.1 13-14 23-24	2.5 / 0.6	N/A	.5 / 19.7	11 / .43	100
GL**06E GL**36E	SLOW ACTING 	 26.5 11-12 21-22	2.5 / 0.6	N/A	.5 / 19.7	11 / .43	100
GL**20E GL**22E GL**24E GL**32E	 SNAP ACTION CONTACTS DOUBLE POLE	 26 11-12, 21-22 13-14, 23-24	2.5 / 0.6	N/A	360	8	100

THIRD ANGLE PROJECTION

SCALE -

DO NOT SCALE PRINT

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

	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

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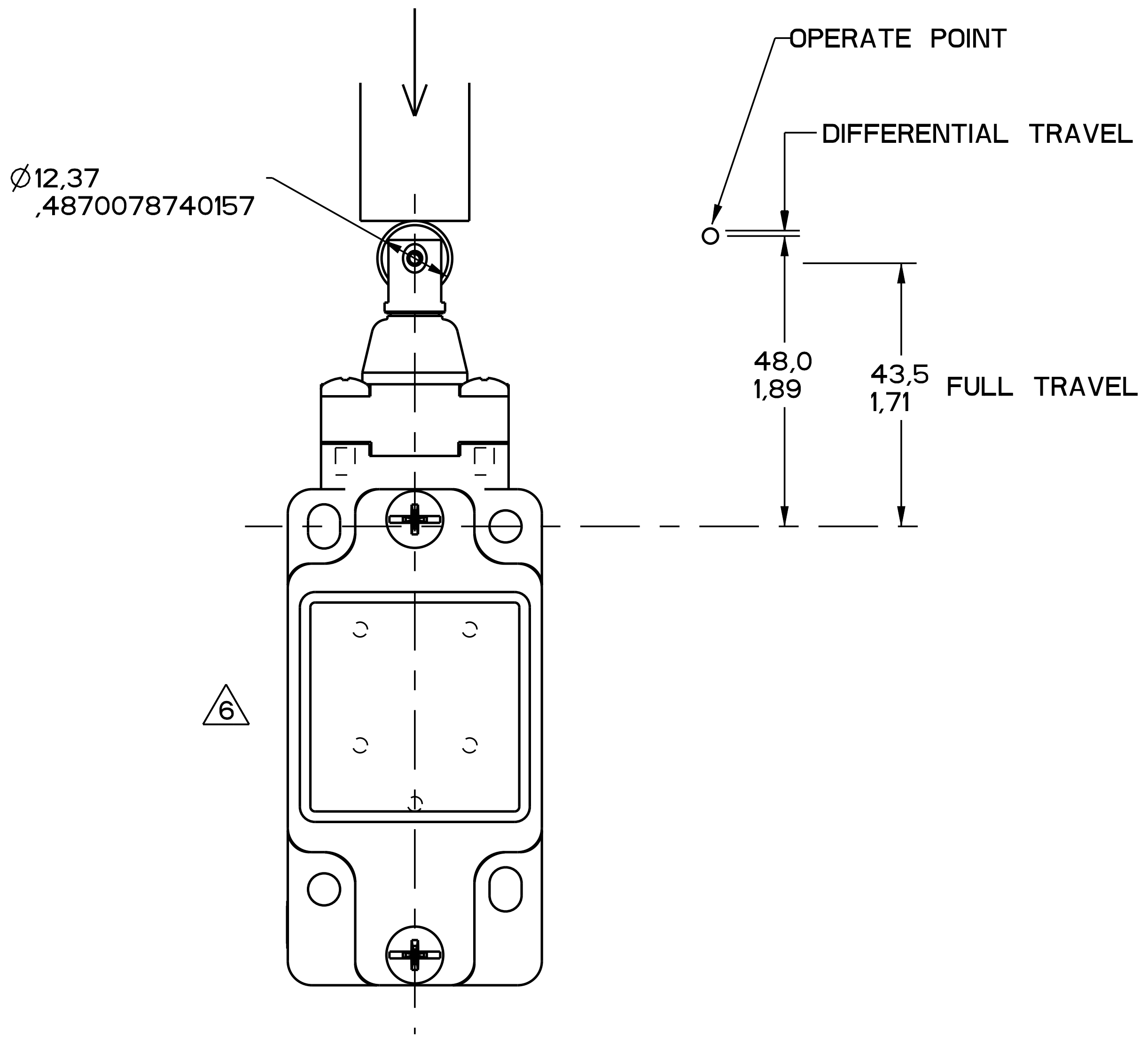
CATALOG LISTING
GL SERIES CHART 1

ANSI Y14.5M-1982 APPLIES

REVISIONS
F 0000401 GLH 2JUN03
G 0002986 RS 20JAN04
H 0023759 RKP 07AUG06
J 0037216 BS 08FEB08
K 0043629 SS 12SEP08
L 0048605 VKS 09FEB09
M 0070059 DN 05OCT10
N 0094570 SBH 20CT12
P 0132255 RGA 12AUG16
R 0155503 BMB 09MAR19

DRAWN L S 20AUG93
CHECK GLH 26AUG93
CHECK CMH 05OCT10
CHECK RS 09MAR19
ISSUE 18
DRAWING NUMBER M GL SERIES CHART 1
PAGE 7 OF 13
RELEASE NO. PR-20782
REPLACES
PTC/CAD

Downloaded By: [illegible], Stephanie 12 February 2022 12:03:47 UTC HEC: EAR99 TEC: EAR99 GOV: ESD1.0


OPERATE POINT
DIFFERENTIAL TRAVEL
Ø12,37
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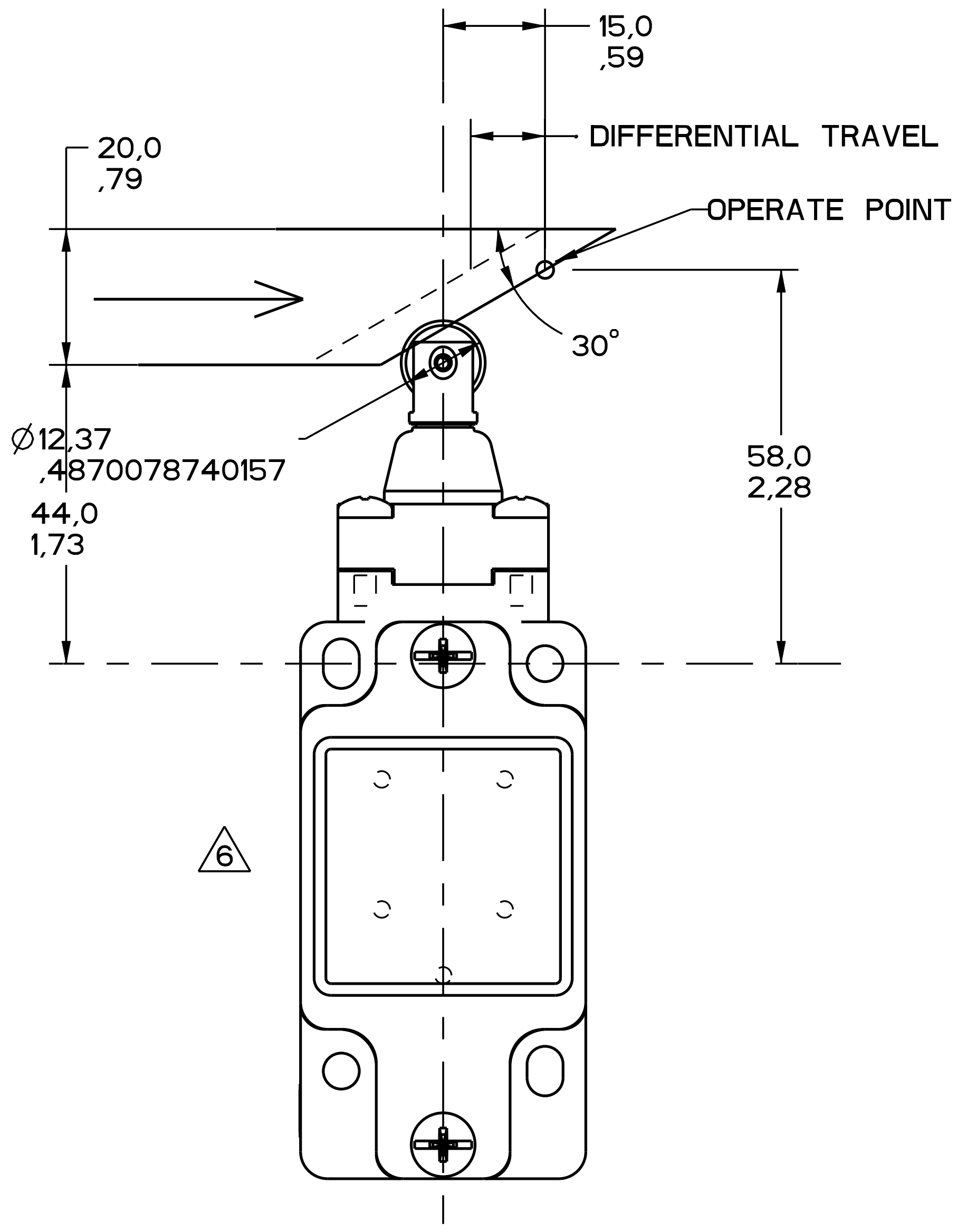
1,89
43,5
1,71
FULL TRAVEL
6

FIGURE 13A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DIFFERENTIAL TRAVEL
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OPERATE POINT
30°
Ø12,37
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44,0
1,73
58,0
2,28
6

FIGURE 13B

ANSI Y14.5M-1982 APPLIES

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CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION
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TOLERANCES
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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X,X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

SI METRIC ☒ US CUSTOMARY ☐
DESIGN UNITS
WEIGHT

M GL SERIES CHART 1
DRAWING NUMBER
PAGE 8 OF 13
RELEASE NO. PR-20782
REPLACES

REVISIONS
F 0000401 GLH 2JUN03
G 0002986 RS 20JAN04
H 0023759 RKP 07AUG06
J 0037216 BS 08FEB08
K 0043629 SS 12SEP08
L 0048605 VKS 09FEB09
M 0070059 DN 05OCT10
N 0094570 SBH 12OCT12
P 0132255 RGA 12AUG16
R 0155503 BMB 09MAR19

PTC/CAD
DRAWN L S 20APR93
CHECK GLH 26AUG93
CHECK CMH 05OCT10
CHECK RS 09MAR19

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GL SERIES CHART 1 18 Released Honeywell proprietary & Confidential

FIGURE 13A, ROLLER PLUNGER HEAD, PIN ACTUATION

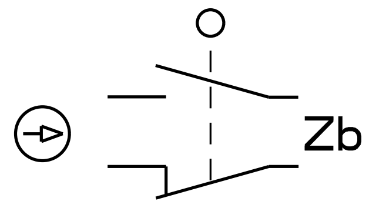
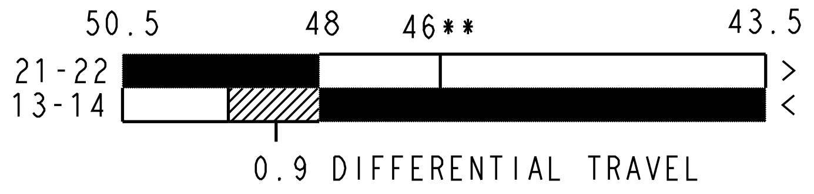
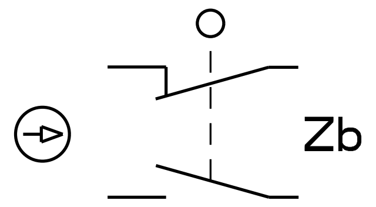
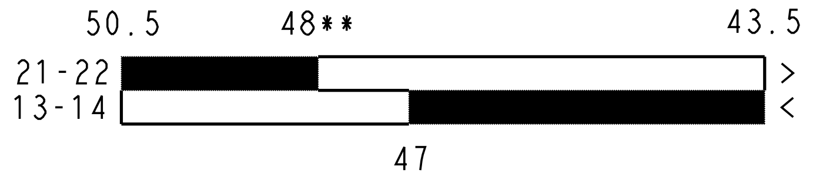
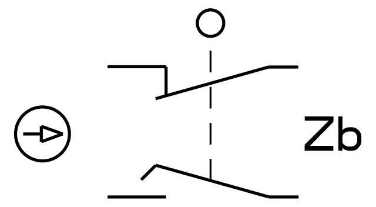
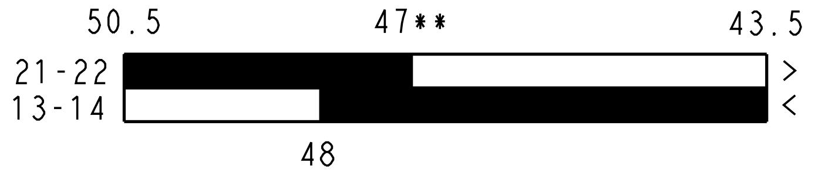
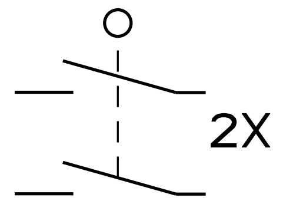
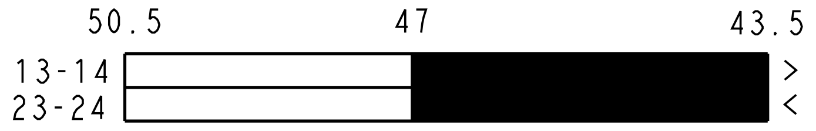
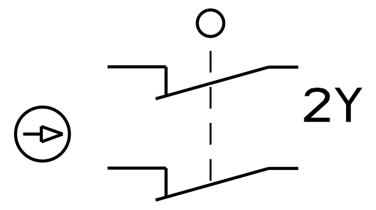
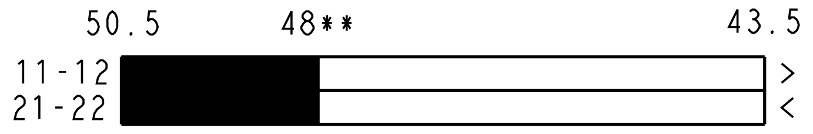
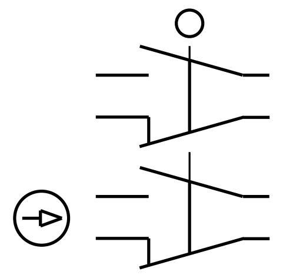
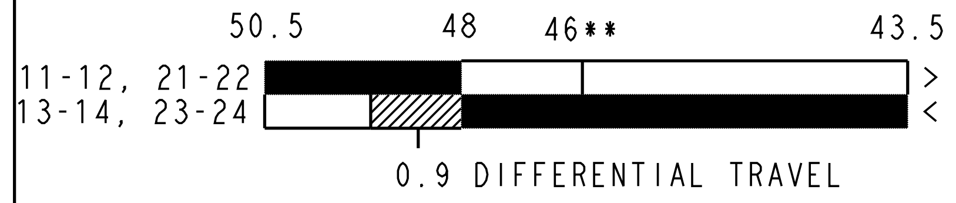
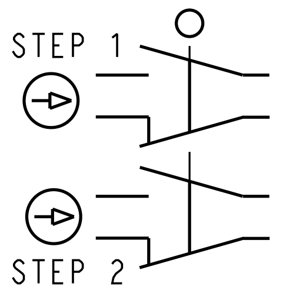
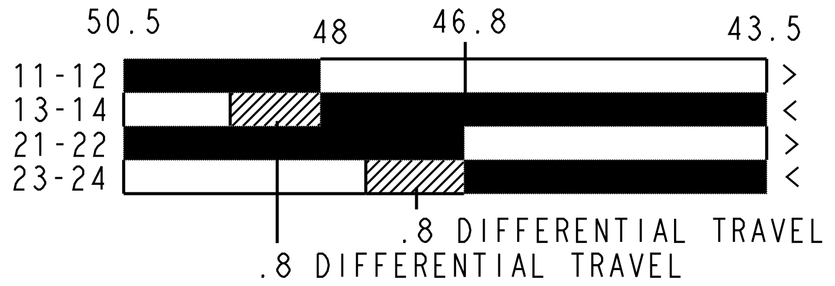
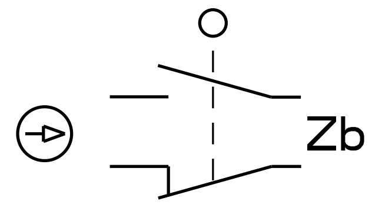
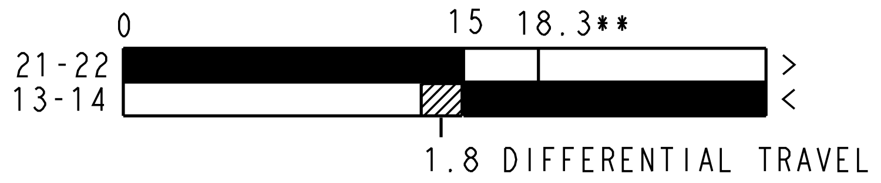
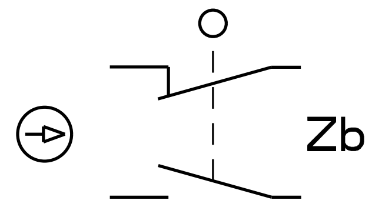
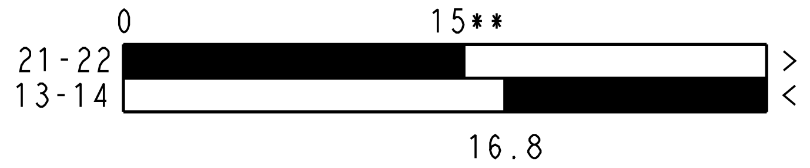
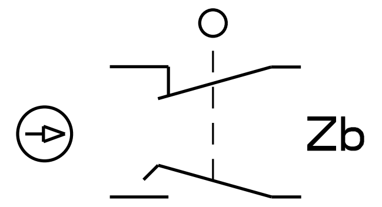
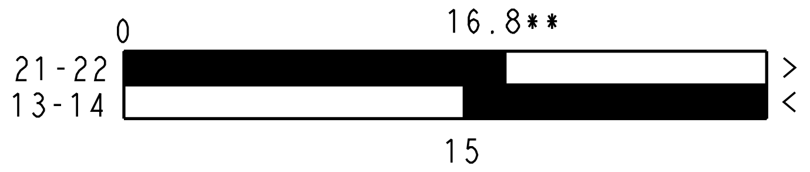
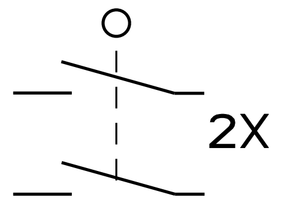
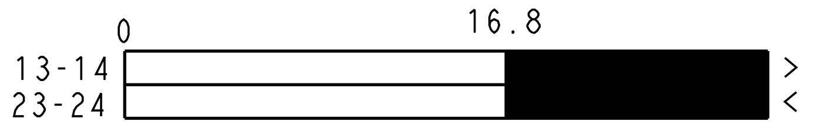
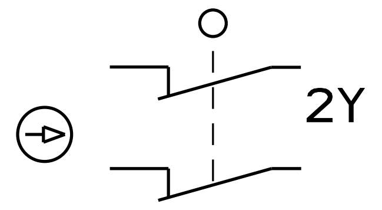
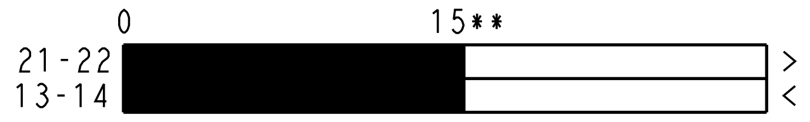
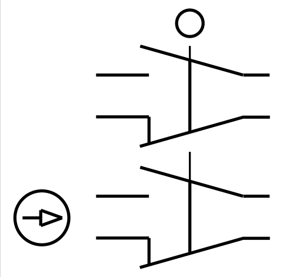
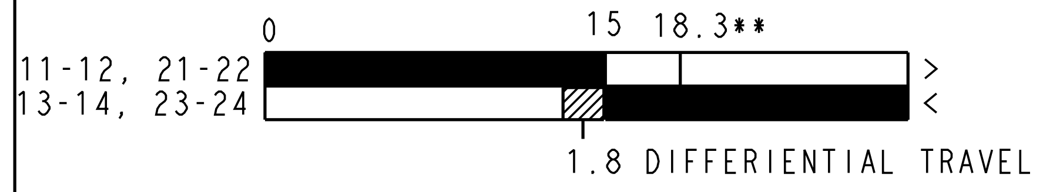
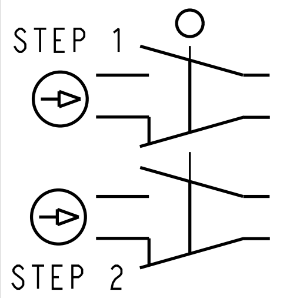
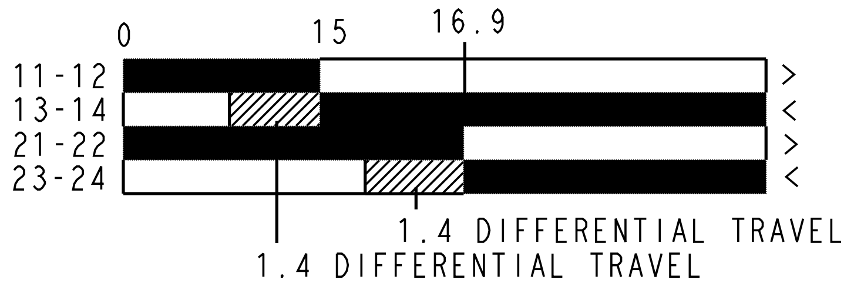
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ▬ - CONTACT CLOSED, ▭ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N/LB	MAXIMUM DISCONNECT FORCE N/LB	MAX OPERATE VEL M/S / in/S	MIN OPERATE VEL mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01C GL**07C	SNAP - ACTION CONTACTS SINGLE POLE 	 50.5 48 46** 43.5 21-22 13-14 0.9 DIFFERENTIAL TRAVEL	16/3.6	27/6.0	0.1/3.9	1.0/.04	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE 	 50.5 48** 43.5 21-22 13-14 47	16/3.6	27/6.0	0.1/3.9	1.0/.04	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK 	 50.5 47** 43.5 21-22 13-14 48	16/3.6	27/6.0	0.1/3.9	1.0/.04	250
GL**05C GL**35C	SLOW ACTING 	 50.5 47 43.5 13-14 23-24	16/3.6	27/6.0	0.1/3.9	1.0/.04	250
GL**06C GL**36C	SLOW ACTING 	 50.5 48** 43.5 11-12 21-22	16/3.6	27/6.0	0.1/3.9	1.0/.04	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE	 50.5 48 46** 43.5 11-12, 21-22 13-14, 23-24 0.9 DIFFERENTIAL TRAVEL	16/3.6	37/8.2	0.1/3.9	1.0/.04	250
GL**21C GL**25C GL**28C GL**31C	 STEP 1 STEP 2SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 50.5 48 46.8 43.5 11-12 13-14 21-22 23-24 .8 DIFFERENTIAL TRAVEL .8 DIFFERENTIAL TRAVEL	16/3.6	N/A	0.1/3.9	1.0/.04	250

FIGURE 13B, TOP ROLLER PLUNGER HEAD, CAM ACTUATION PER EN50041

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/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**01C GL**07C	SNAP - ACTION CONTACTS SINGLE POLE 	 0 15 18.3** 21-22 13-14 1.8 DIFFERENTIAL TRAVEL	9.3/2.1	15.6/3.5	0.17/6.7	1.7/.067	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE 	 0 15** 21-22 13-14 16.8	9.3/2.1	15.6/3.5	0.17/6.7	1.7/.067	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK 	 0 16.8** 21-22 13-14 15	9.3/2.1	15.6/3.5	0.17/6.7	1.7/.067	250
GL**05C GL**35C	SLOW ACTING 	 0 16.8 13-14 23-24	9.3/2.1	15.6/3.5	0.17/6.7	1.7/.067	250
GL**06C GL**36C	SLOW ACTING 	 0 15** 21-22 13-14	9.3/2.1	15.6/3.5	0.17/6.7	1.7/.067	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE	 0 15 18.3** 11-12, 21-22 13-14, 23-24 1.8 DIFFERIENTIAL TRAVEL	9.3/2.1	21.4/4.8	0.17/6.7	1.7/.067	250
GL**21C GL**25C GL**28C GL**31C	 STEP 1 STEP 2SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 0 15 16.9 11-12 13-14 21-22 23-24 1.4 DIFFERENTIAL TRAVEL 1.4 DIFFERENTIAL TRAVEL	9.3/2.1	N/A	0.17/6.7	1.7/.067	250

REVISIONS		
F	0000401	GLH 2JUN03
G	0002986	RS 20JAN04
H	0023759	RKP 07AUG06
J	0037216	BS 08FEB08
K	0043629	SS 12SEP08
L	0048605	VKS 09FEB09
M	0070059	DN 05OCT10
N	0094570	SBH 12OCT12
P	0132255	RGA 12AUG16
R	0155503	BMB 09MAR19

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CHECK SAV 05MAR01
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ISSUE 18
DRAWING NUMBER M GL SERIES CHART 1
PAGE 9 OF 13
RELEASE NO. PR-20782
REPLACES

THIRD ANGLE PROJECTION
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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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GL SERIES CHART 1

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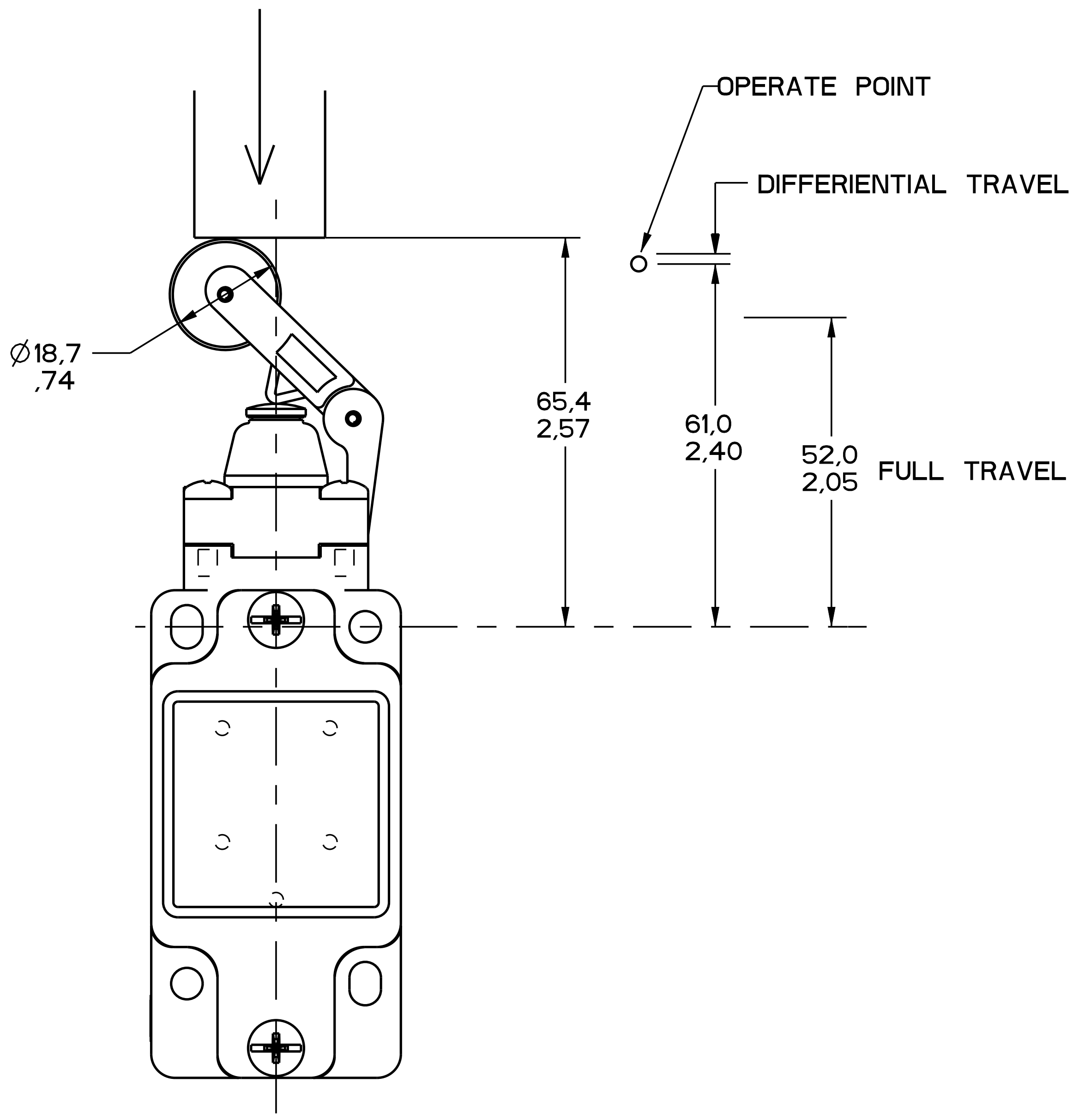
OPERATE POINT
DIFFERENTIAL TRAVEL
Ø18,7
,74
65,4
2,57
61,0
2,40
52,0
2,05
FULL TRAVEL

FIGURE 14A

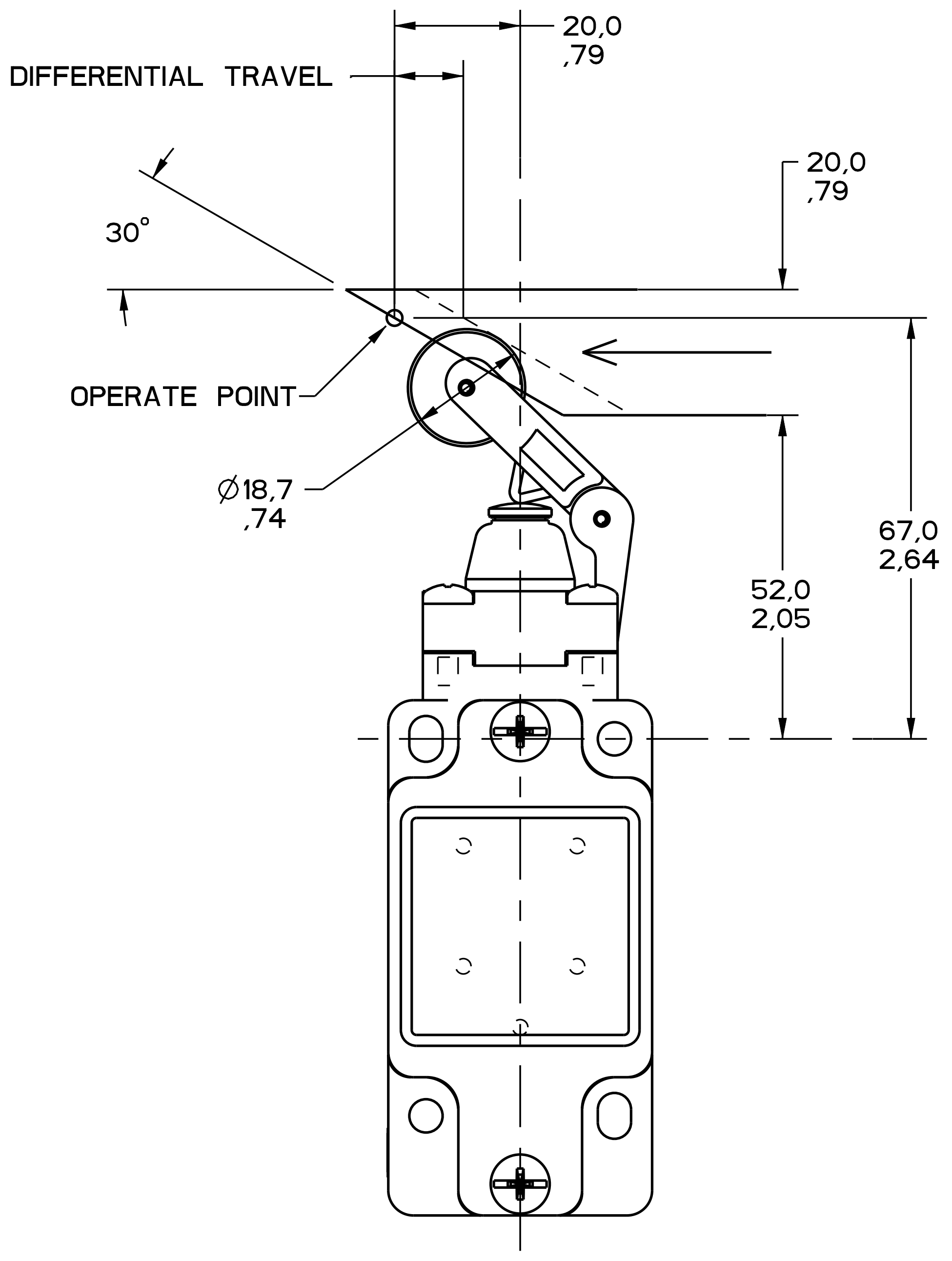
20,0
,79
DIFFERENTIAL TRAVEL
20,0
,79
30°
OPERATE POINT
Ø18,7
,74
67,0
2,64
52,0
2,05

FIGURE 14B

THIRD ANGLE PROJECTION

SCALE 1:1

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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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CATALOG LISTING
GL SERIES CHART 1

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M GL SERIES CHART 1
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ISSUE 18

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H	0023759	RKP 07AUG06
J	0037216	BS 08FEB08
K	0043629	SS 12SEP08
L	0048605	VKS 09FEB09
M	0070059	DN 05OCT10
N	0094570	SBH 12OCT12
P	0132255	RGA 02AUG16
R	0155503	BMB 09MAR19

PTC/CAD 3D

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M GL SERIES CHART 1

FIGURE 14A, TOP ROLLER LEVER HEAD WITH PIN ACTUATION

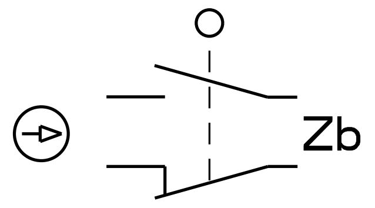
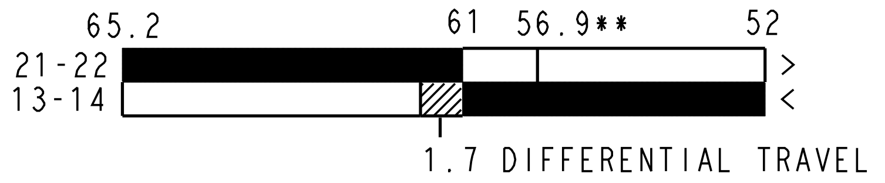
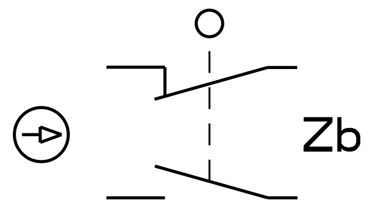
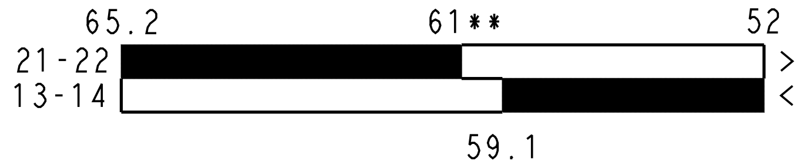
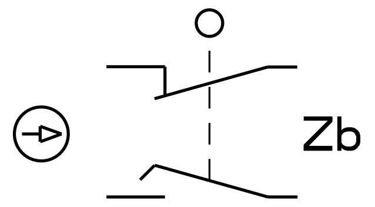
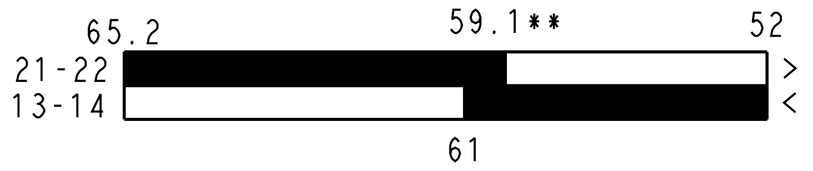
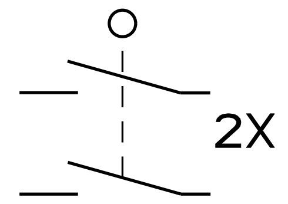
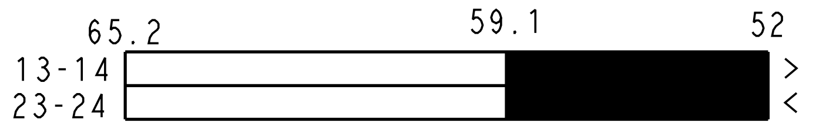
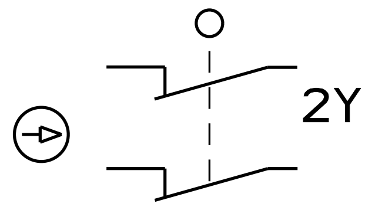
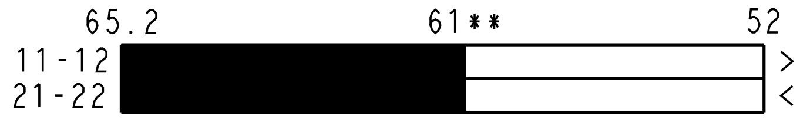
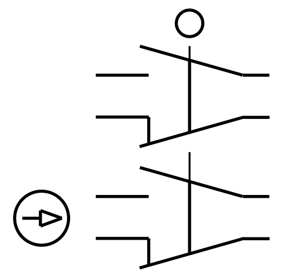
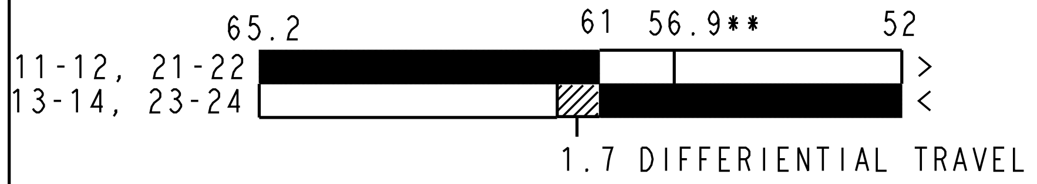
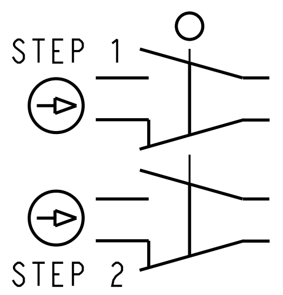
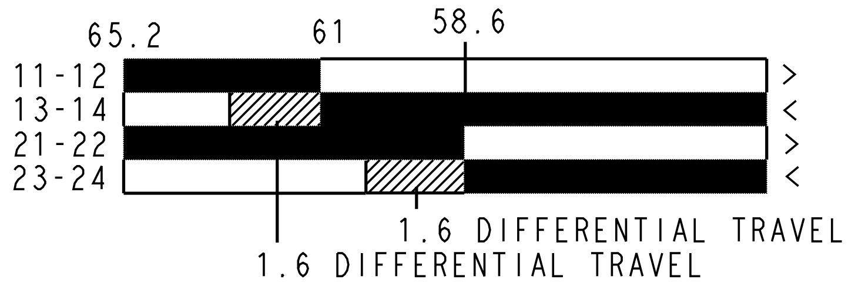
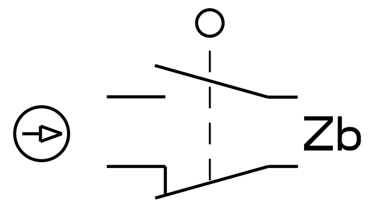
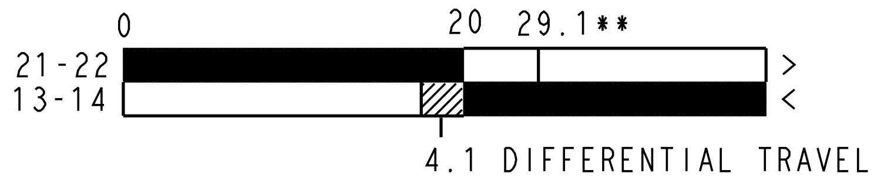
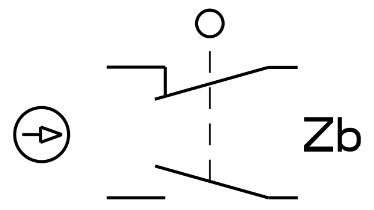
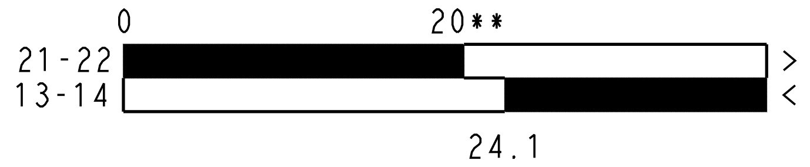
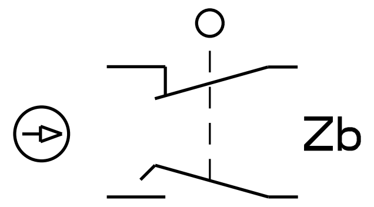
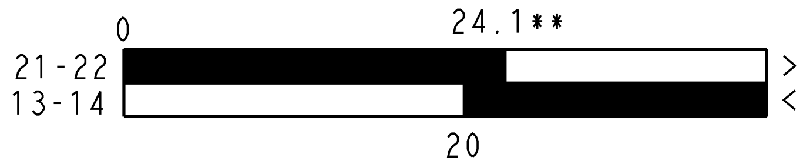
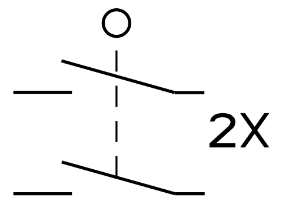
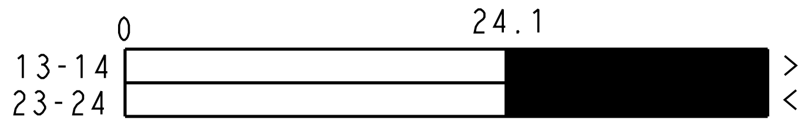
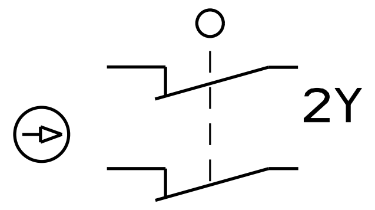
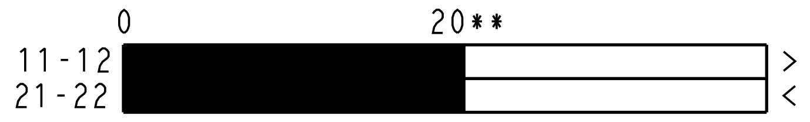
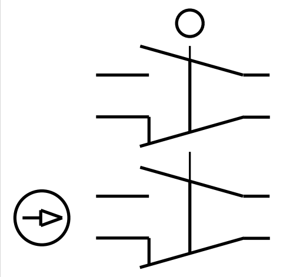
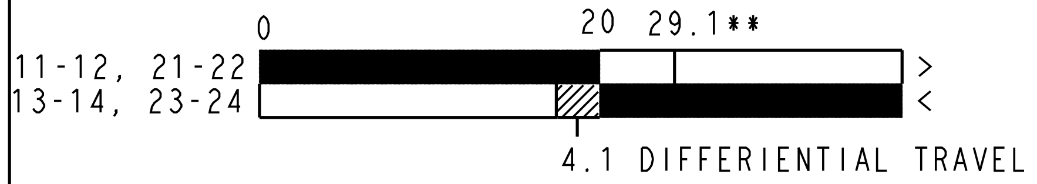
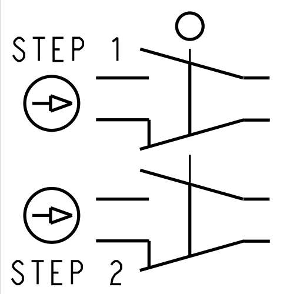
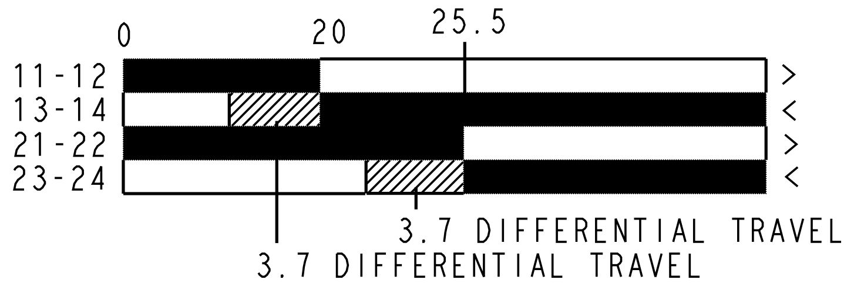
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, ☐ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N/LB	MAXIMUM DISCONNECT FORCE N/LB	MAX OPERATE VEL M/S / in/S	MIN OPERATE VEL M/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01D GL**07D	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 GL**33D	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 GL**34D	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**05D GL**35D	SLOW ACTING 	 65.2 59.1 52 13-14 23-24	9.5 2.1	12 2.7	0.17 6.7	1.7 .067	250
GL**06D GL**36D	SLOW ACTING 	 65.2 61** 52 11-12 21-22	9.5 2.1	12 2.7	0.17 6.7	1.7 .067	250
GL**20D GL**22D GL**24D GL**32D	 SNAP ACTION CONTACTS DOUBLE POLE	 65.2 61 56.9** 52 11-12, 21-22 13-14, 23-24 1.7 DIFFERIENTIAL TRAVEL	9.5 2.1	16.4 3.7	0.17 6.7	1.7 .067	250
GL**21D GL**25D GL**28D GL**31D	 STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 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/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**01D GL**07D	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 GL**33D	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 GL**34D	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**05D GL**35D	SLOW ACTING 	 0 24.1 13-14 23-24	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**06D GL**36D	SLOW ACTING 	 0 20** 11-12 21-22	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**20D GL**22D GL**24D GL**32D	 SNAP ACTION CONTACTS DOUBLE POLE	 0 20 29.1** 11-12, 21-22 13-14, 23-24 4.1 DIFFERIENTIAL TRAVEL	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**21D GL**25D GL**28D GL**31D	 STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	 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

THIRD ANGLE PROJECTION

SCALE -

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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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CMH 05OCT10
RS 09MAR19
DRAWING NUMBER **M** GL SERIES CHART 1
PAGE 11 OF 13
RELEASE NO. -
REPLACES -

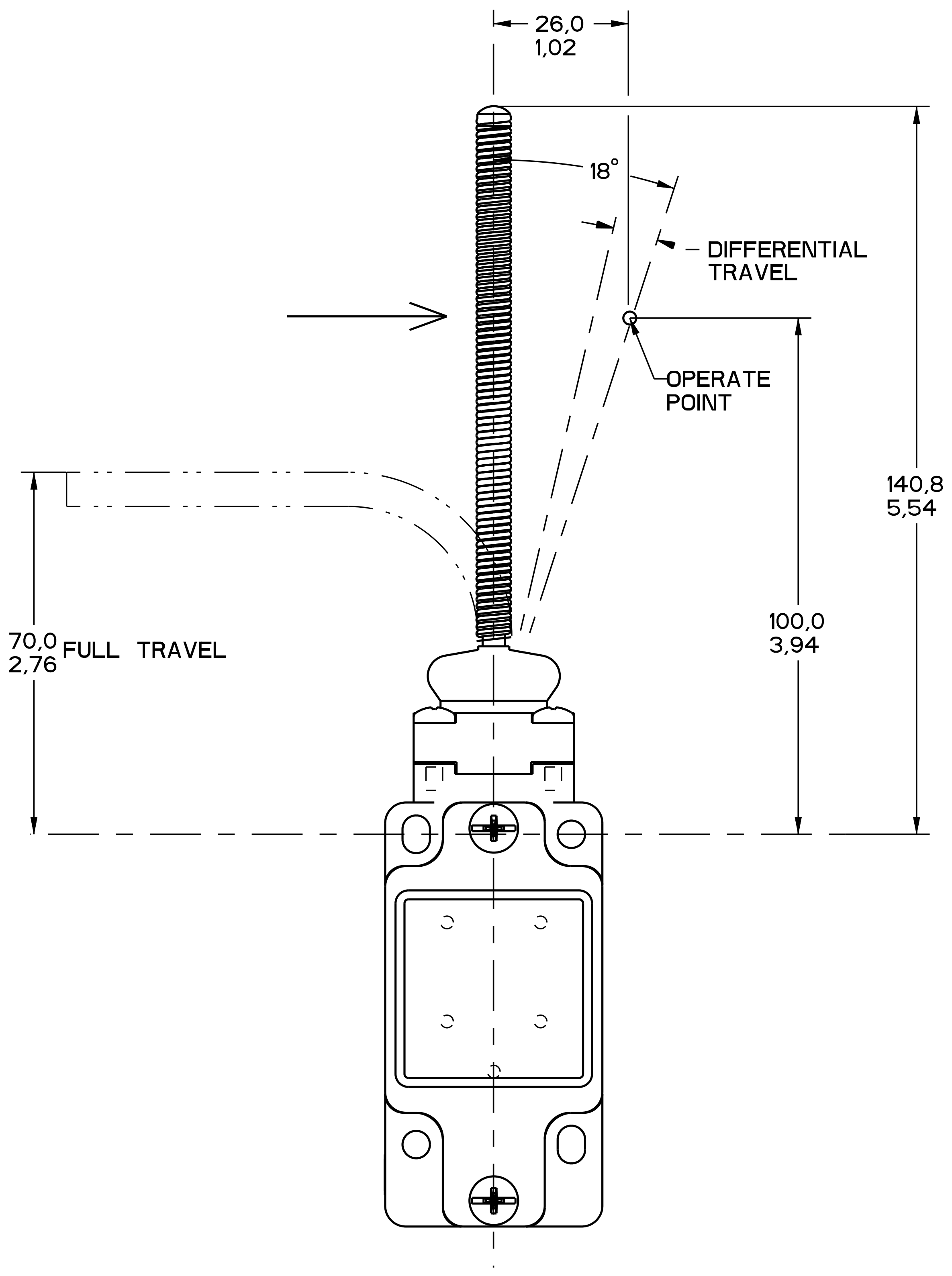

FIGURE 15

THIRD ANGLE PROJECTION

SCALE 1:1

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	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X,X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X,XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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K	0043629	SS 12SEP08
L	0048605	VKS 09FEB09
M	0070059	DN 05OCT10
N	0094570	SBH 12OCT12
P	0132255	RGA 12AUG16
R	0155503	BMB 09MAR19

PTC/CAD 3D
DRAWN GLH 05MAR01
CHECK SAV 05MAR01
CHECK CMH 05OCT10
CHECK RS 09MAR19
SIZE
REV 18
DRAWING NUMBER M GL SERIES CHART 1
PAGE 12 OF 13
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M GL SERIES CHART 1

FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION

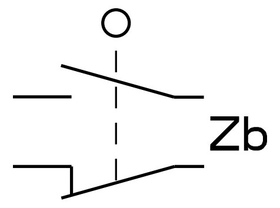
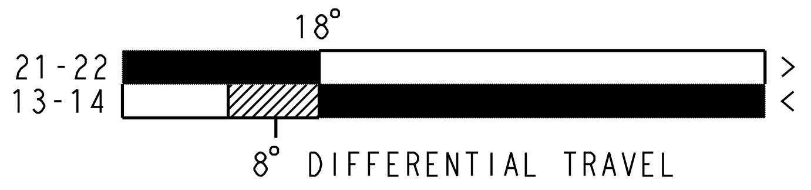
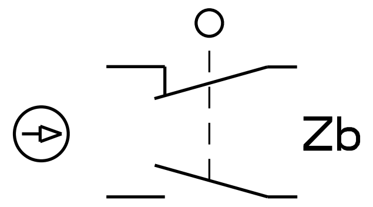
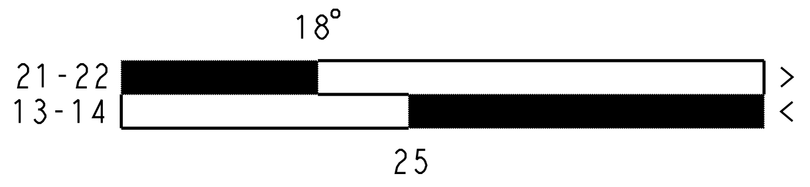
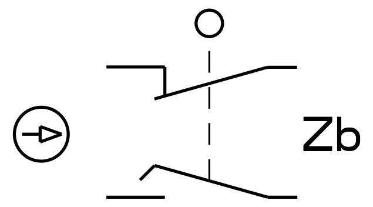
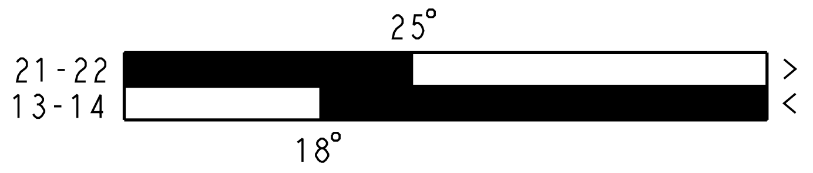
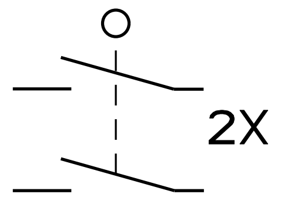
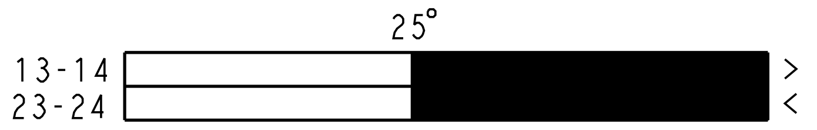
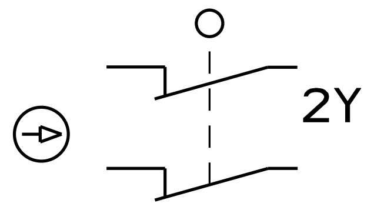
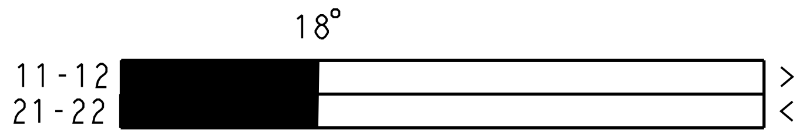
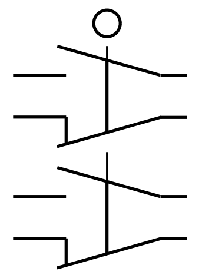
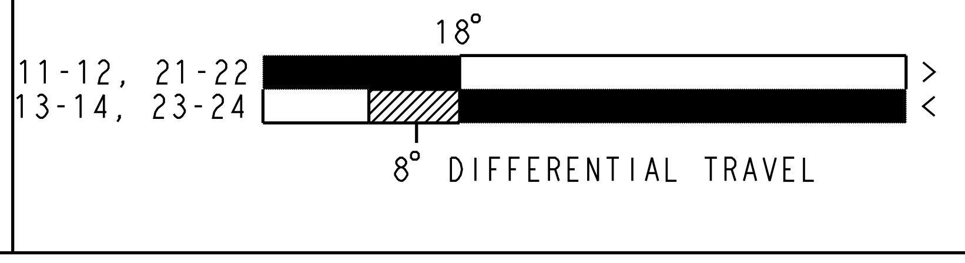
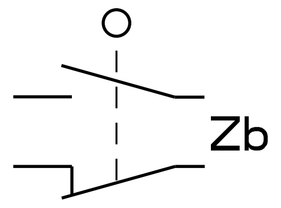
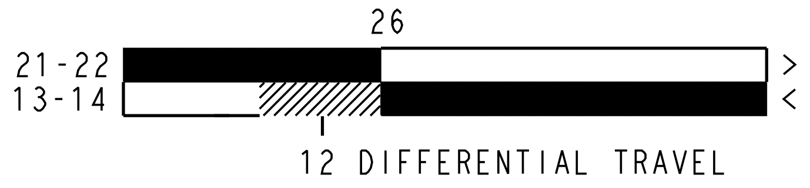
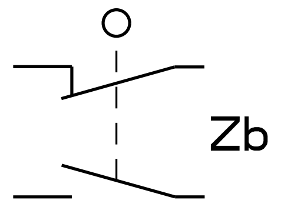
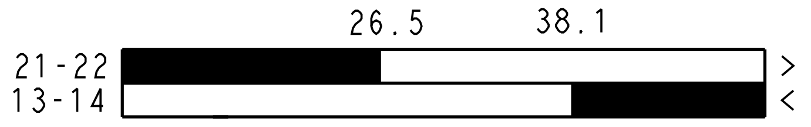
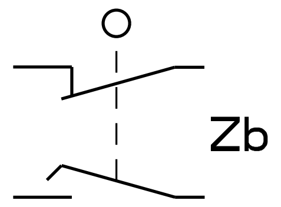
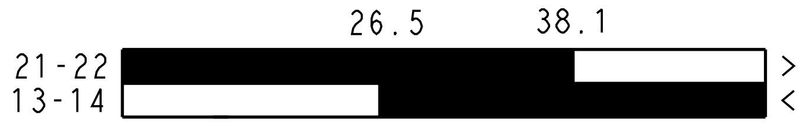
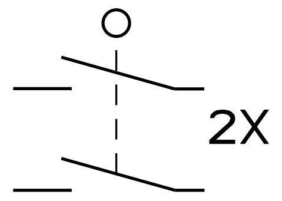
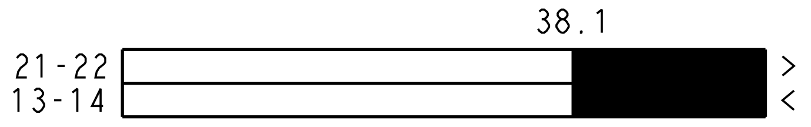
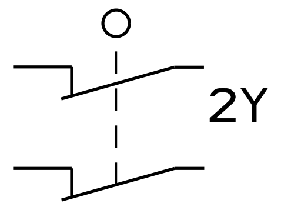
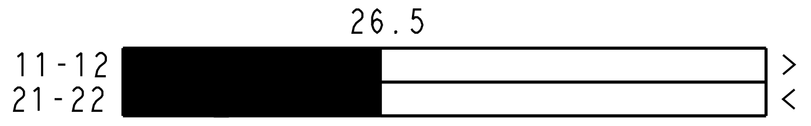
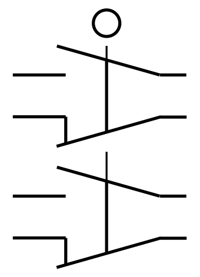
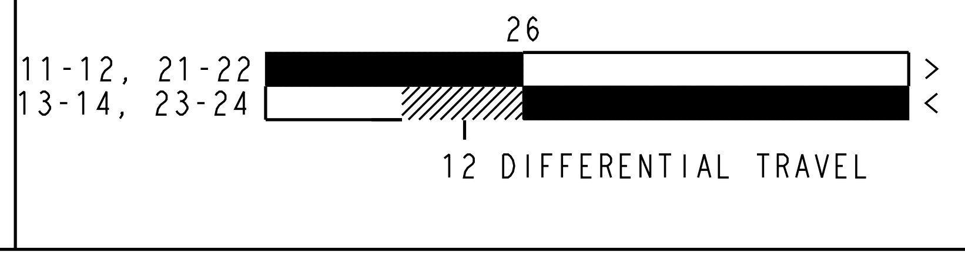
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, ☐ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL	MAXIMUM OPERATING TORQUE N-m / LB-IN	MAXIMUM DISCONNECT TORQUE N-m / LB-IN	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**01K GL**07K	SNAP - ACTION CONTACTS SINGLE POLE 	 18° 21-22 13-14 8° DIFFERENTIAL TRAVEL	0.1 .9	N/A	360	8	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 	 18° 21-22 13-14 25	0.1 .9	N/A	360	8	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 	 25° 21-22 13-14 18°	0.1 .9	N/A	360	8	100
GL**05K GL**35K	SLOW ACTING 	 25° 13-14 23-24	0.1 .9	N/A	360	8	100
GL**06K GL**36K	SLOW ACTING 	 18° 11-12 21-22	0.1 .9	N/A	360	8	100
GL**20K GL**22K GL**24K GL**32K	 SNAP ACTION CONTACTS DOUBLE POLE	 18° 11-12, 21-22 13-14, 23-24 8° DIFFERENTIAL TRAVEL	0.1 .9	N/A	360	8	100

FIGURE 15, CAT WISKER HEAD, SIDE ACTUATION AT 100mm

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, ☐ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL	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**01K GL**07K	SNAP - ACTION CONTACTS SINGLE POLE 	 26 21-22 13-14 12 DIFFERENTIAL TRAVEL	1.3 .3	N/A	.5 19.7	11 .43	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 	 26.5 38.1 21-22 13-14	1.3 0.3	N/A	.5 19.7	X11 .43	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 	 26.5 38.1 21-22 13-14	1.3 0.3	N/A	.5 19.7	11 .43	100
GL**05K GL**35K	SLOW ACTING 	 38.1 21-22 13-14	1.3 0.3	N/A	.5 19.7	11 .43	100
GL**06K GL**36K	SLOW ACTING 	 26.5 11-12 21-22	1.3 0.3	N/A	.5 19.7	11 .43	100
GL**20K GL**22K GL**24K GL**32K	 SNAP ACTION CONTACTS DOUBLE POLE	 26 11-12, 21-22 13-14, 23-24 12 DIFFERENTIAL TRAVEL	1.3 0.3	N/A	.5 19.7	11 .43	100

THIRD ANGLE PROJECTION

SCALE -

DO NOT SCALE PRINT

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

	DIM. mm	TOL mm/in	DIM. in	TOL mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES	±2°			
DESIGN UNITS	SI METRIC ☒		US CUSTOMARY ☐	

WEIGHT

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CATALOG LISTING
GL SERIES CHART 1

ANSI Y14.5M-1982 APPLIES

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DRAWN GLH 05MAR01
CHECK SAV 05MAR01
CHECK CMH 05OCT10
CHECK RS 09MAR19
ISSUE 18
DRAWING NUMBER M GL SERIES CHART 1
RELEASE NO. -
PAGE 13 OF 13
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REVISIONS
F 0000401 GLH 2JUN03
G 0002986 RS 20JAN04
H 0023759 RKP 07AUG06
J 0037216 BS 08FEB08
K 0043629 SS 12SEP08
L 0048605 VKS 09FEB09
M 0070059 DN 05OCT10
N 0094570 SBH 12OCT12
P 0132255 RGA 22AUG16
R 0155503 BMB 09MAR19

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