

SIDE ROTARY

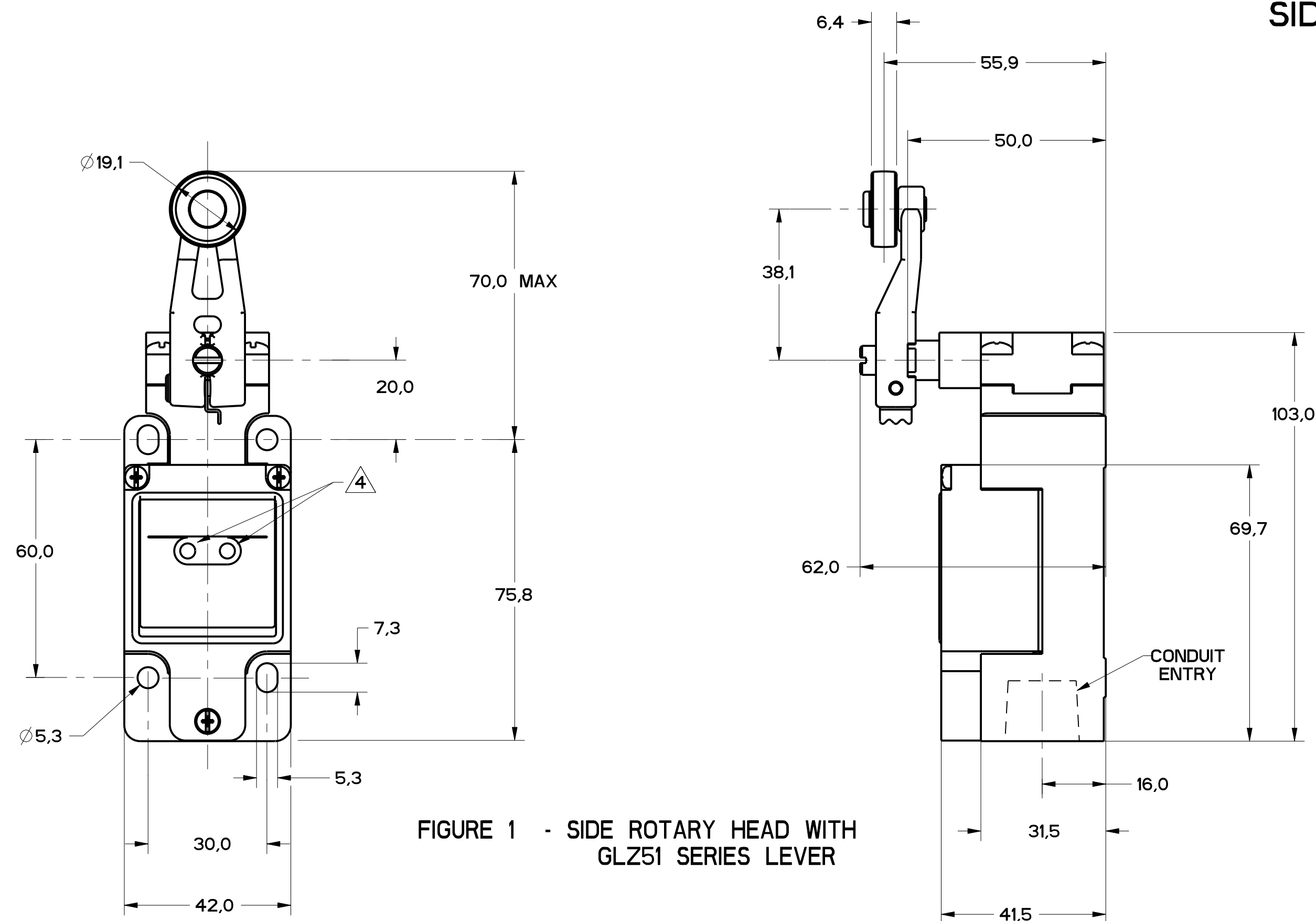


FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

ALUMINUM ROD
GLZ54J: 200.00 / 7.870 MAX
GLZ54K: 140.00 / 5.510 MAX
STAINLESS STEEL ROD
GLZ54N: 318.00 / 12.490 MAX

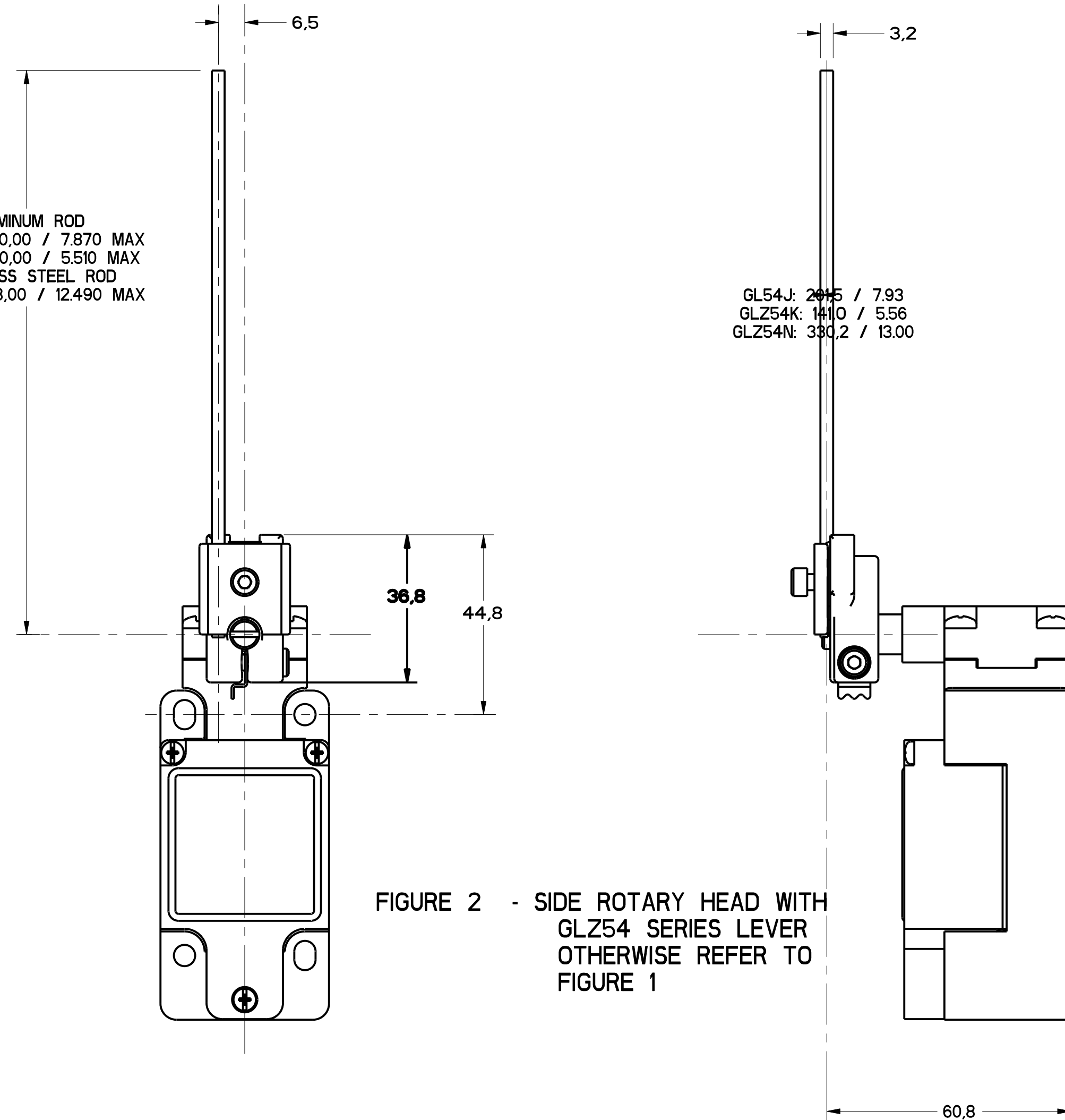


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

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 $\Delta 5$			
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		

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

NOTES

- HEADS MAY BE INDEXED IN 90° INCREMENTS.
- LEVERS MAY BE KEYED TO THE SHAFT AT 90° INCREMENTS. THEY MAY ALSO BE ATTACHED, BUT NOT KEYED ANYWHERE ON THE SHAFT.
- FOR ADDITIONAL LEVERS SEE "M" DRAWING CHART GLZ5
- THE RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLG SERIES PRODUCTS ONLY.
- THE MAXIMUM VOLTAGE, V_e OF GLG SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS
- FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL TO EN50041
- CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38.1 / 1.50
- 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

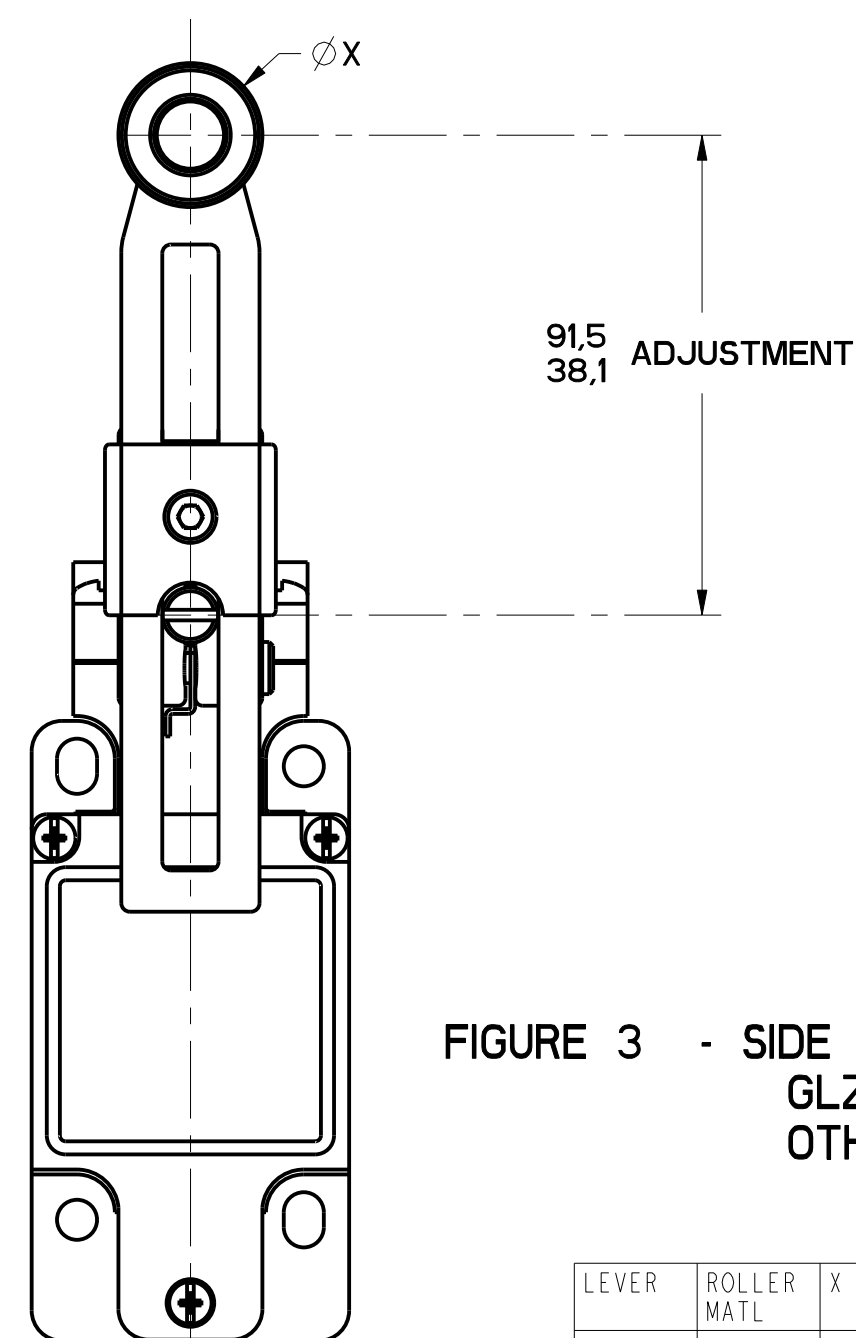


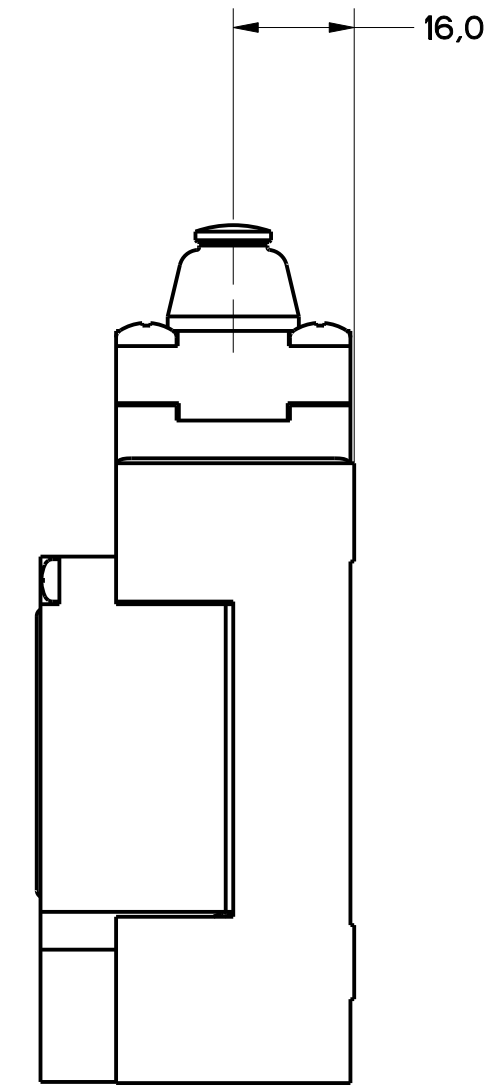
FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

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 1.5	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
GLB***	I	N/A	N/A
GLG***	I	N/A	N/A
GLJ***	I	N/A	N/A
GLA***	1A	N/A	N/A
GLB***	1B	N/A	N/A
GLC***	1C	N/A	N/A
GLD***	1D	N/A	N/A
GL***A1*	I	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***E7C	I	7E	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 FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE:			
NO PLACES	NO PLACES	NO PLACES	NO PLACES
ONE PLACE	ONE PLACE	ONE PLACE	ONE PLACE
TWO PLACES	TWO PLACES	TWO PLACES	TWO PLACES
THREE PLACES	THREE PLACES	THREE PLACES	THREE PLACES
ANGLES	ANGLES	ANGLES	ANGLES
SI METRIC	SI METRIC	SI METRIC	SI METRIC
DESIGN UNITS	DESIGN UNITS	DESIGN UNITS	DESIGN UNITS
WEIGHT	WEIGHT	WEIGHT	WEIGHT

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.		CATALOG LISTING	
FED. MFG. CODE 91929		GL SERIES CHART 2	
MICRO SWITCH a Honeywell Division		SWITCH, ENCLOSED	

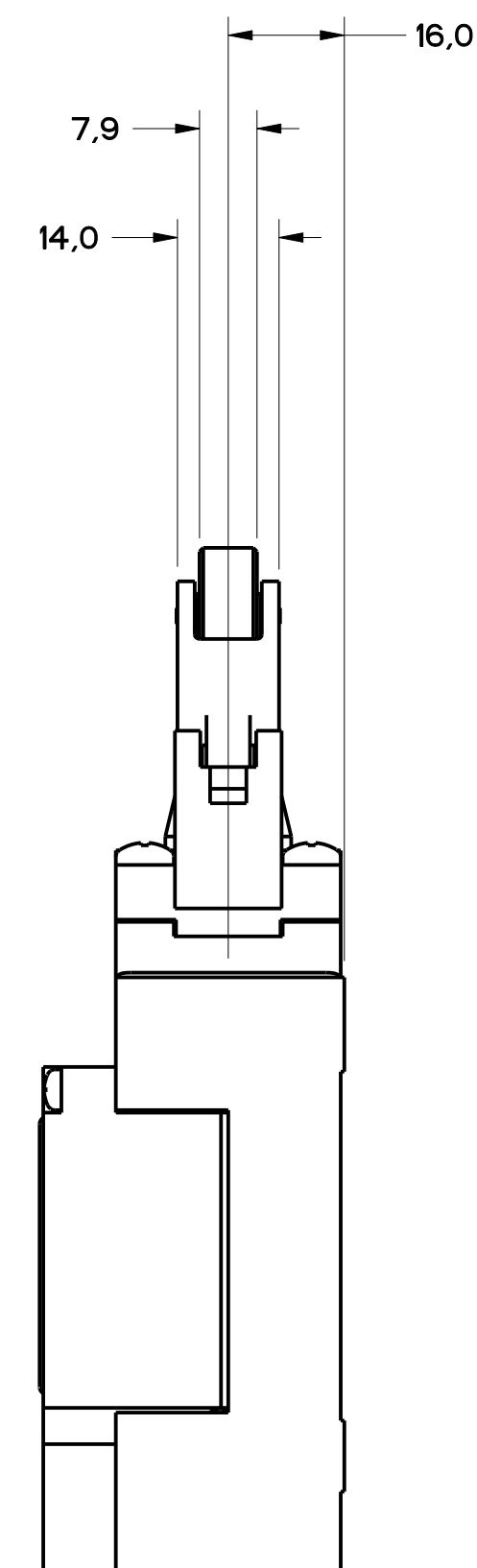


STEEL ROLLER

Ø12,4

50,5

Technical drawing of a lamp head (Lampenkopf) showing dimensions. The drawing includes a side view and a top view. The side view shows a cylindrical body with a flared top. The top view shows a circular base with a central protrusion. Dimensions are indicated: 4,7 for the height of the central protrusion and 16,0 for the diameter of the base.



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THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.		<table border="1"> <tr> <td>DIM</td> <td>TOL</td> <td>DIM</td> <td>TOL</td> </tr> <tr> <td>1</td> <td>0.0015</td> <td>1</td> <td>0.0015</td> </tr> <tr> <td>2</td> <td>0.0015</td> <td>2</td> <td>0.0015</td> </tr> <tr> <td>3</td> <td>0.0015</td> <td>3</td> <td>0.0015</td> </tr> <tr> <td>4</td> <td>0.0015</td> <td>4</td> <td>0.0015</td> </tr> <tr> <td>5</td> <td>0.0015</td> <td>5</td> <td>0.0015</td> </tr> <tr> <td>6</td> <td>0.0015</td> <td>6</td> <td>0.0015</td> </tr> <tr> <td>7</td> <td>0.0015</td> <td>7</td> <td>0.0015</td> </tr> <tr> <td>8</td> <td>0.0015</td> <td>8</td> <td>0.0015</td> </tr> <tr> <td>9</td> <td>0.0015</td> <td>9</td> <td>0.0015</td> </tr> <tr> <td>10</td> <td>0.0015</td> <td>10</td> <td>0.0015</td> </tr> <tr> <td>11</td> <td>0.0015</td> <td>11</td> <td>0.0015</td> </tr> <tr> <td>12</td> <td>0.0015</td> <td>12</td> <td>0.0015</td> </tr> <tr> <td>13</td> <td>0.0015</td> <td>13</td> 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<td>86</td></tr></table>		DIM	TOL	DIM	TOL	1	0.0015	1	0.0015	2	0.0015	2	0.0015	3	0.0015	3	0.0015	4	0.0015	4	0.0015	5	0.0015	5	0.0015	6	0.0015	6	0.0015	7	0.0015	7	0.0015	8	0.0015	8	0.0015	9	0.0015	9	0.0015	10	0.0015	10	0.0015	11	0.0015	11	0.0015	12	0.0015	12	0.0015	13	0.0015	13	0.0015	14	0.0015	14	0.0015	15	0.0015	15	0.0015	16	0.0015	16	0.0015	17	0.0015	17	0.0015	18	0.0015	18	0.0015	19	0.0015	19	0.0015	20	0.0015	20	0.0015	21	0.0015	21	0.0015	22	0.0015	22	0.0015	23	0.0015	23	0.0015	24	0.0015	24	0.0015	25	0.0015	25	0.0015	26	0.0015	26	0.0015	27	0.0015	27	0.0015	28	0.0015	28	0.0015	29	0.0015	29	0.0015	30	0.0015	30	0.0015	31	0.0015	31	0.0015	32	0.0015	32	0.0015	33	0.0015	33	0.0015	34	0.0015	34	0.0015	35	0.0015	35	0.0015	36	0.0015	36	0.0015	37	0.0015	37	0.0015	38	0.0015	38	0.0015	39	0.0015	39	0.0015	40	0.0015	40	0.0015	41	0.0015	41	0.0015	42	0.0015	42	0.0015	43	0.0015	43	0.0015	44	0.0015	44	0.0015	45	0.0015	45	0.0015	46	0.0015	46	0.0015	47	0.0015	47	0.0015	48	0.0015	48	0.0015	49	0.0015	49	0.0015	50	0.0015	50	0.0015	51	0.0015	51	0.0015	52	0.0015	52	0.0015	53	0.0015	53	0.0015	54	0.0015	54	0.0015	55	0.0015	55	0.0015	56	0.0015	56	0.0015	57	0.0015	57	0.0015	58	0.0015	58	0.0015	59	0.0015	59	0.0015	60	0.0015	60	0.0015	61	0.0015	61	0.0015	62	0.0015	62	0.0015	63	0.0015	63	0.0015	64	0.0015	64	0.0015	65	0.0015	65	0.0015	66	0.0015	66	0.0015	67	0.0015	67	0.0015	68	0.0015	68	0.0015	69	0.0015	69	0.0015	70	0.0015	70	0.0015	71	0.0015	71	0.0015	72	0.0015	72	0.0015	73	0.0015	73	0.0015	74	0.0015	74	0.0015	75	0.0015	75	0.0015	76	0.0015	76	0.0015	77	0.0015	77	0.0015	78	0.0015	78	0.0015	79	0.0015	79	0.0015	80	0.0015	80	0.0015	81	0.0015	81	0.0015	82	0.0015	82	0.0015	83	0.0015	83	0.0015	84	0.0015	84	0.0015	85	0.0015	85	0.0015	86
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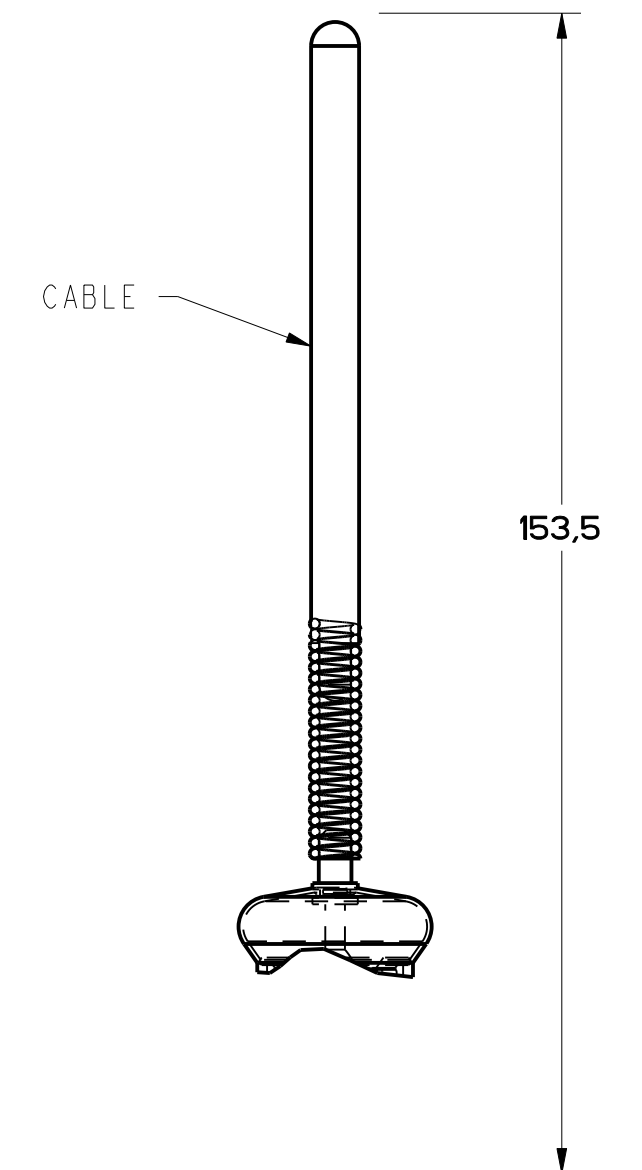
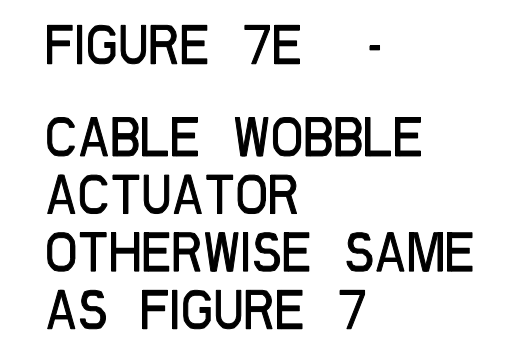
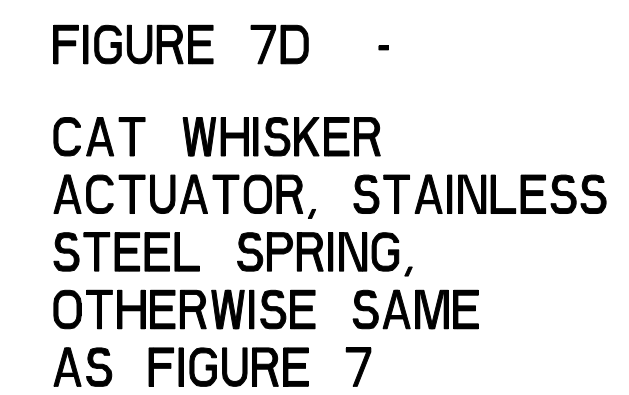
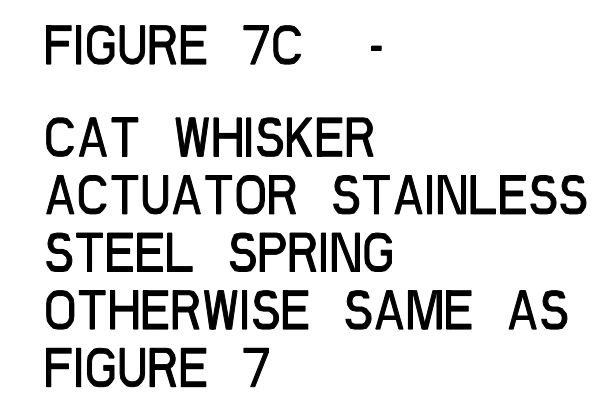
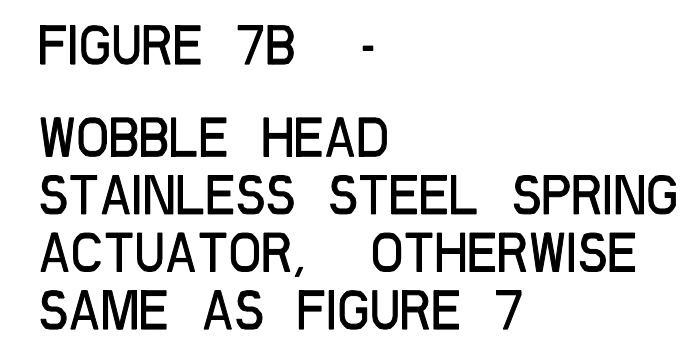
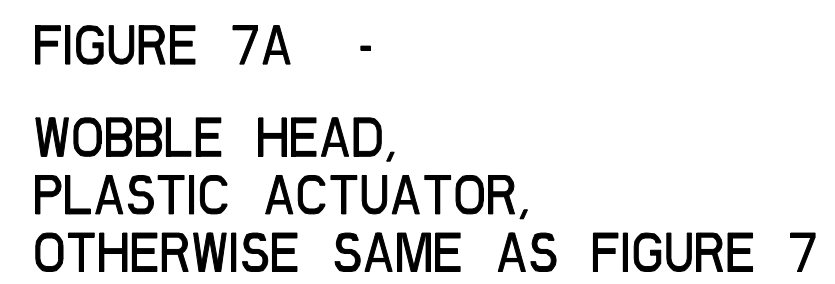


FIGURE 7 - WOBBLE HEAD, AND CAT WHISKER HEAD
COIL ACTUATOR,
OTHERWISE REFER TO
FIGURE 1

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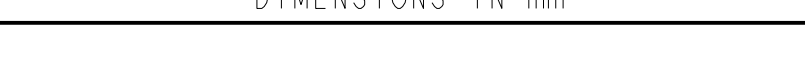
MICRO SWITCH
a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING	
GL SERIES CHART 2	

THIRD ANGLE PROJECTION			
			
SCALE FULL			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS, CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED, TOLERANCES ARE:			
	DIM inch	TOL inch	DIM mm
NO PLACES	X	1/16, 1/8, 1/4	0.01, 0.03, 0.05, 0.1
ONE PLACE	X.1	0.01, 0.16	0.001, 0.01, 0.05, 0.1
TWO PLACES	X.01	0.001, 0.01, 0.063	0.0001, 0.001, 0.005, 0.01, 0.05, 0.1
THREE PLACES	X.001	0.0001, 0.001, 0.0063	0.00001, 0.0001, 0.0005, 0.001, 0.005, 0.01, 0.05, 0.1
FOUR PLACES	X.0001	0.00001, 0.0001, 0.00063	0.000001, 0.00001, 0.00005, 0.0001, 0.0005, 0.001, 0.005, 0.01, 0.05, 0.1
DESIGN UNITS US CUSTOMARY			
☒ METRIC		☐ US	
WEIGHT		WEIGHT	



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 DIMENSIONS IN mm	MAXIMUM OPERATING FORCE  LB	MAXIMUM DISCONNECT FORCE  LB	MAX OPERATE VEL  in/s **	MIN OPERATE VEL  in/s **	MAX OPERATE FREQUENCY OPS/MIN
GL**02A*	SNAP - ACTION CONTACTS SINGLE POLE 	 12 DIFFERENTIAL TRAVEL	$\frac{9.7}{2.2}$	$\frac{11.4}{2.6}$	$\frac{.85}{33.5}$	$\frac{8.5}{.33}$	250

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FED. MFG. CODE 91929		CATALOG LISTING	
MICRO SWITCH a Honeywell Division	SWITCH, ENCLOSED	GL SERIES CHART 2	
		WEIGHT	
		DESIGN UNITS	
		SI METRIC	
		US CUSTOMARY	



Technical drawing of the front view of a mechanical assembly. The drawing includes the following dimensions and labels:

- 26,0**: Dimension across the top of the vertical rod.
- 18°**: Angle of the rod relative to the vertical.
- DIFFERENTIAL TRAVEL**: Label for the distance between the operate point and the top of the rod.
- OPERATE POINT**: Label for the point where the rod is actuated.
- 140,8**: Total height of the assembly.
- 100,0**: Height from the base to the operate point.
- 70,0**: Height of the base assembly.
- FULL TRAVEL**: Label for the distance from the base to the top of the rod.

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 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**02B	SNAP - ACTION CONTACTS SINGLE POLE 	 0.9 DIFFERENTIAL TRAVEL	$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250

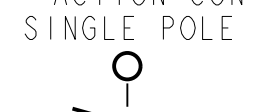
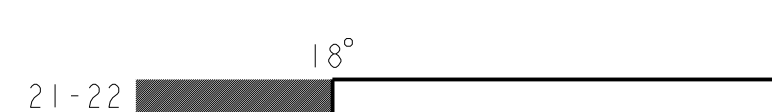
FIGURE 12, WOBBLE HEAD, ANGULAR ACTUATION								
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS CONTACT CLOSED,  CONTACT OPEN  - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING TORQUE $\frac{\text{N}\cdot\text{m}}{\text{LB}\cdot\text{in}}$	MAXIMUM DISCONNECT TORQUE $\frac{\text{N}\cdot\text{m}}{\text{LB}\cdot\text{in}}$	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN	
GL**02E	SNAP - ACTION CONTACTS SINGLE POLE 	 18° 21-22 13-14 8° DIFFERENTIAL TRAVEL	$\frac{0.2}{1.8}$	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 $\frac{N}{LB}$	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**02E	SNAP - ACTION CONTACTS SINGLE POLE 		$\frac{2.5}{0.6}$	N/A	$\frac{5}{19.7}$	$\frac{11}{.43}$	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 $\frac{N}{LB}$	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**02E	SNAP - ACTION CONTACTS SINGLE POLE 	21-22 13-14 26 12 DIFFERENTIAL TRAVEL	$\frac{2.5}{0.6}$	N/A	$\frac{5}{19.7}$	$\frac{11}{.43}$	100

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ANGLES	± 2																										
FED. MFG. CODE 91929	CATALOG LISTING	<table border="1"> <tr> <td>SI METRIC</td> <td>US CUSTOMARY</td> </tr> <tr> <td>☒</td> <td>☐</td> </tr> </table>		SI METRIC	US CUSTOMARY	☒	☐																				
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MICRO SWITCH a Honeywell Division	SWITCH, ENCLOSED	GL SERIES CHART 2																									
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B	CO	81184
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D	CO	93188
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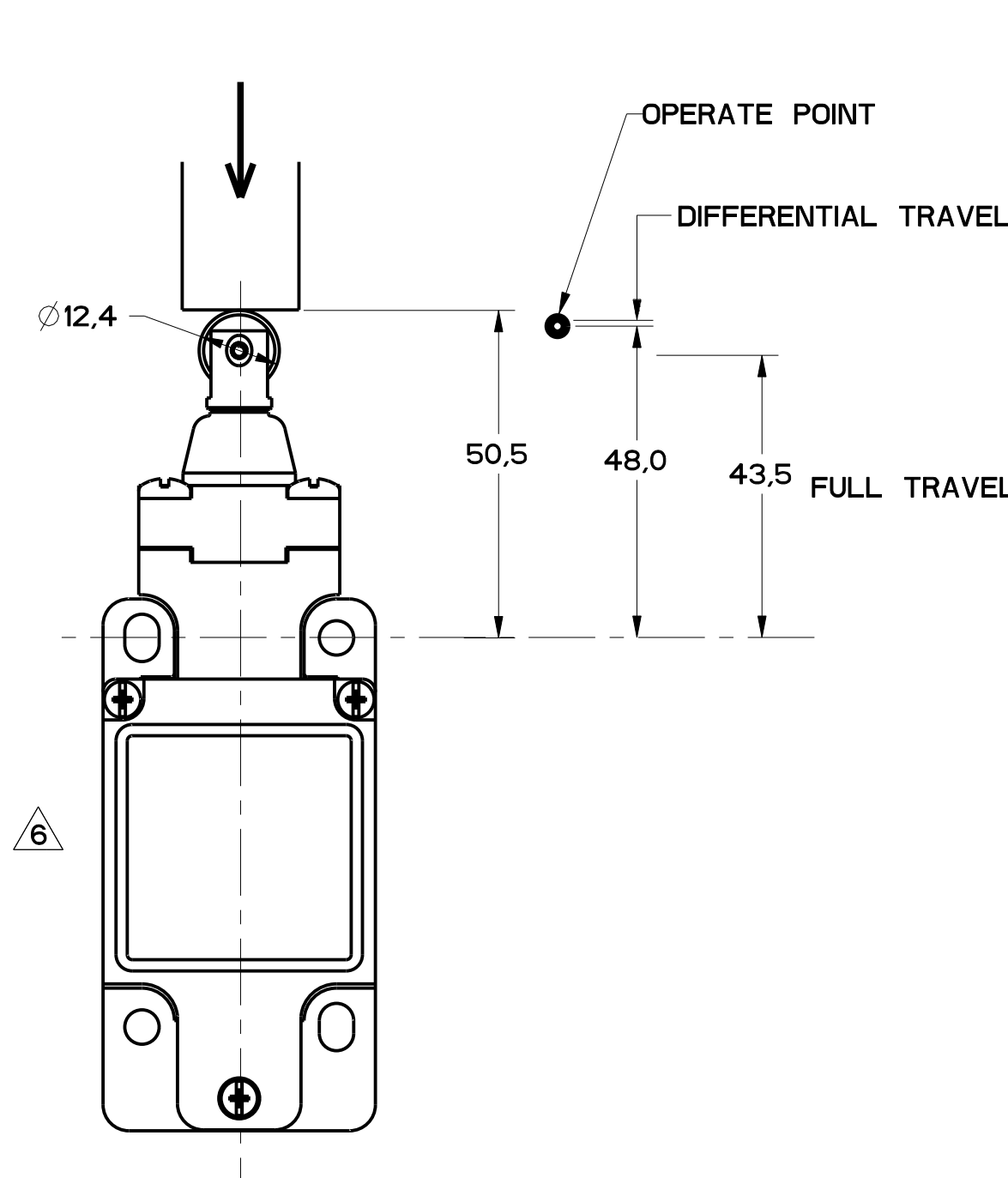


FIGURE 13A

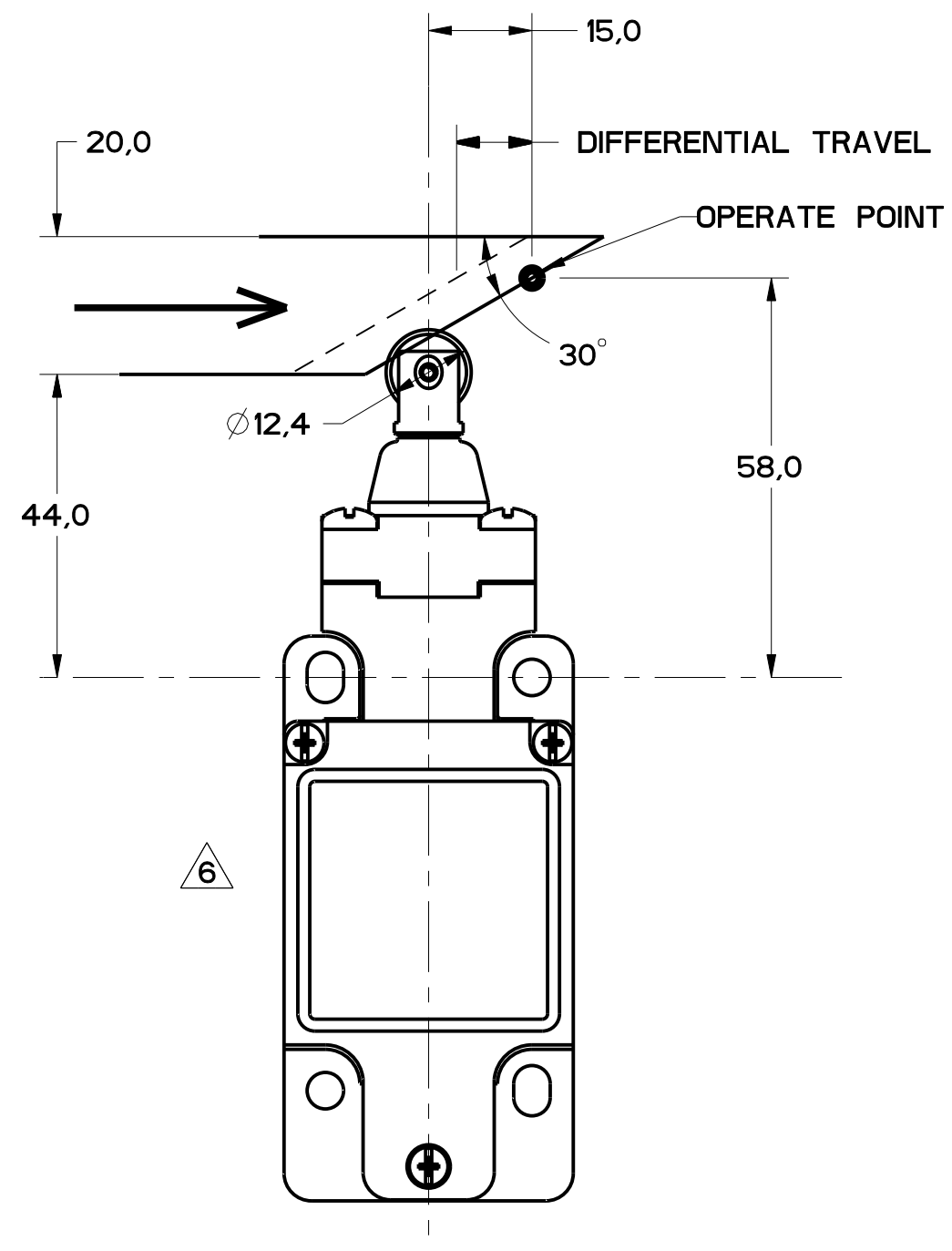


FIGURE 13B

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 M/S in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02C	SNAP - ACTION CONTACTS SINGLE POLE 	 0.9 DIFFERENTIAL TRAVEL	16 3.6	27 6.0	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 M/S in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02C	SNAP - ACTION CONTACTS SINGLE POLE 	 1.8 DIFFERENTIAL TRAVEL	9.3 2.1	15.6 3.5	0.17 6.7	1.7 .067	250



FIGURE 14B

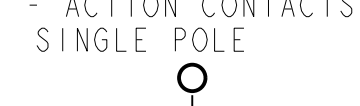
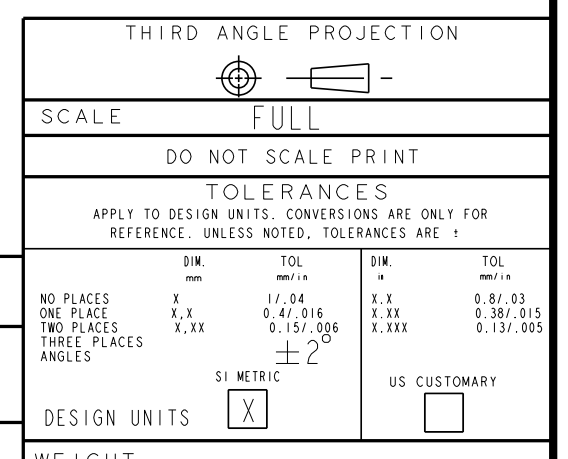
FIGURE 14B, TOP ROLLER LEVER HEAD WITH CAM ACTUATION							
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS CONTACT CLOSED,  CONTACT OPEN,  - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE  LB	MAXIMUM DISCONNECT FORCE  LB	MAX OPERATE VEL VEL $\frac{in}{s}$	MIN OPERATE VEL VEL $\frac{in}{s}$	MAX OPERATE FREQUENCY OPS/MIN
GL**02D	SNAP - ACTION CONTACTS SINGLE POLE  Zb	 0 20 29.1** 21-22 13-14 > < 4.1 DIFFERENTIAL TRAVEL	$\frac{5.5}{1.2}$	$\frac{7.0}{1.6}$	$\frac{0.29}{11.4}$	$\frac{2.9}{.11}$	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 LB	MAXIMUM DISCONNECT FORCE LB	MAX OPERATE VEL m/s in/s	MIN OPERATE VEL mm/s in/s	MAX OPERATE FREQUENCY OPS/MIN
GL**02D	SNAP - ACTION CONTACTS SINGLE POLE 	21-22 13-14 4.1 DIFFERENTIAL TRAVEL 20 29.1** >	5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250



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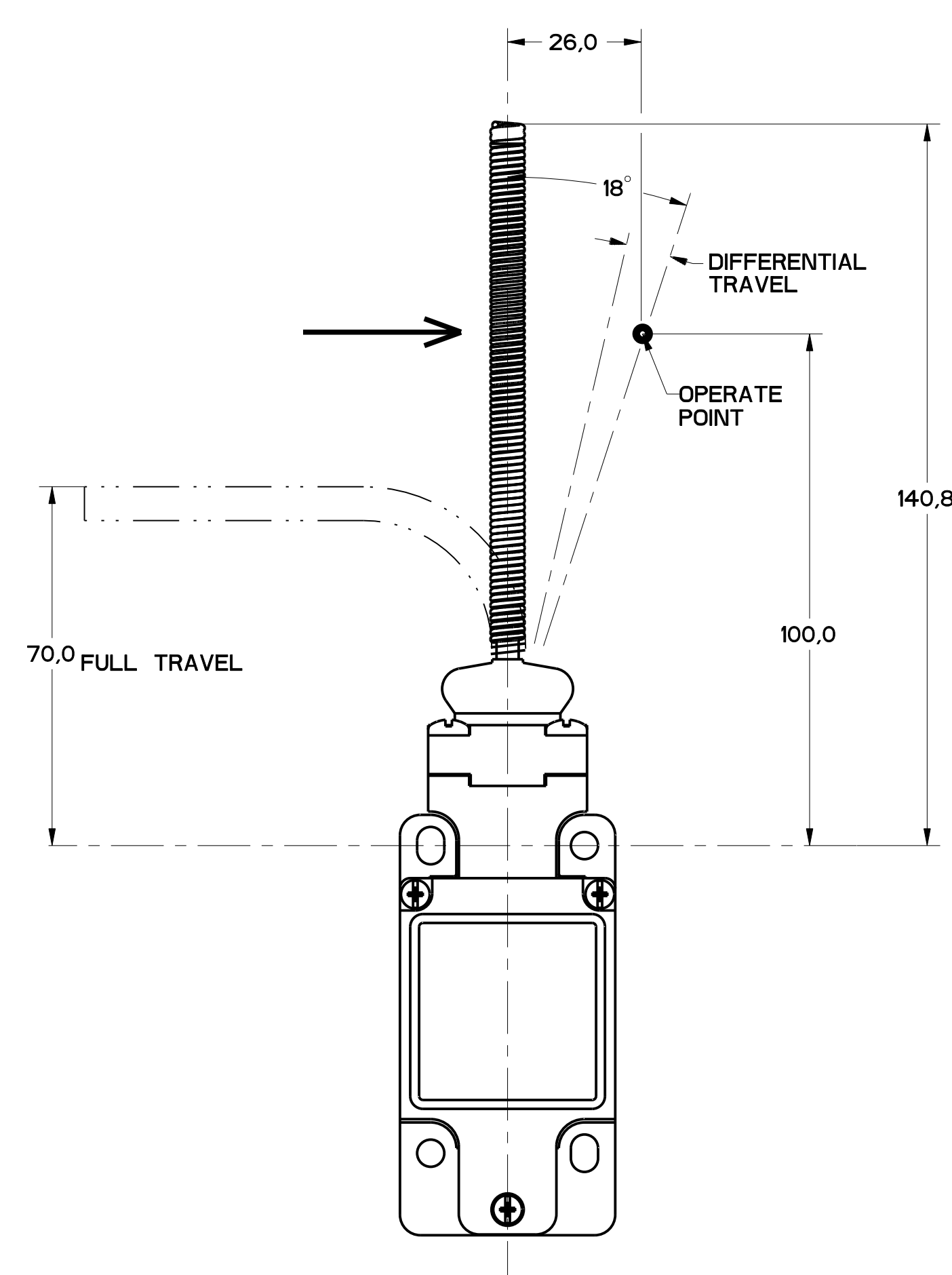


FIGURE 15

FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION						
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS CONTACT CLOSED, CONTACT OPEN, DIFFERENTIAL TRAVEL	MAXIMUM OPERATING TORQUE LB-IN	MAXIMUM DISCONNECT TORQUE LB-IN	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S
GL**02K	SNAP - ACTION CONTACTS SINGLE POLE 	 21-22 13-14 18° 8° DIFFERENTIAL TRAVEL	0.1 .9	N/A	360	8

FIGURE 15, CAT WISKER HEAD, SIDE ACTUATION AT 100mm						
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS CONTACT CLOSED, CONTACT OPEN, DIFFERENTIAL TRAVEL	MAXIMUM OPERATING FORCE LB	MAXIMUM DISCONNECT FORCE LB	MAX OPERATE VEL IN/S	MIN OPERATE VEL IN/S
GL**02K	SNAP - ACTION CONTACTS SINGLE POLE 	 21-22 13-14 26 12 DIFFERENTIAL TRAVEL	1.3 .3	N/A	.5 19.7	.11 .43