

SIDE ROTARY

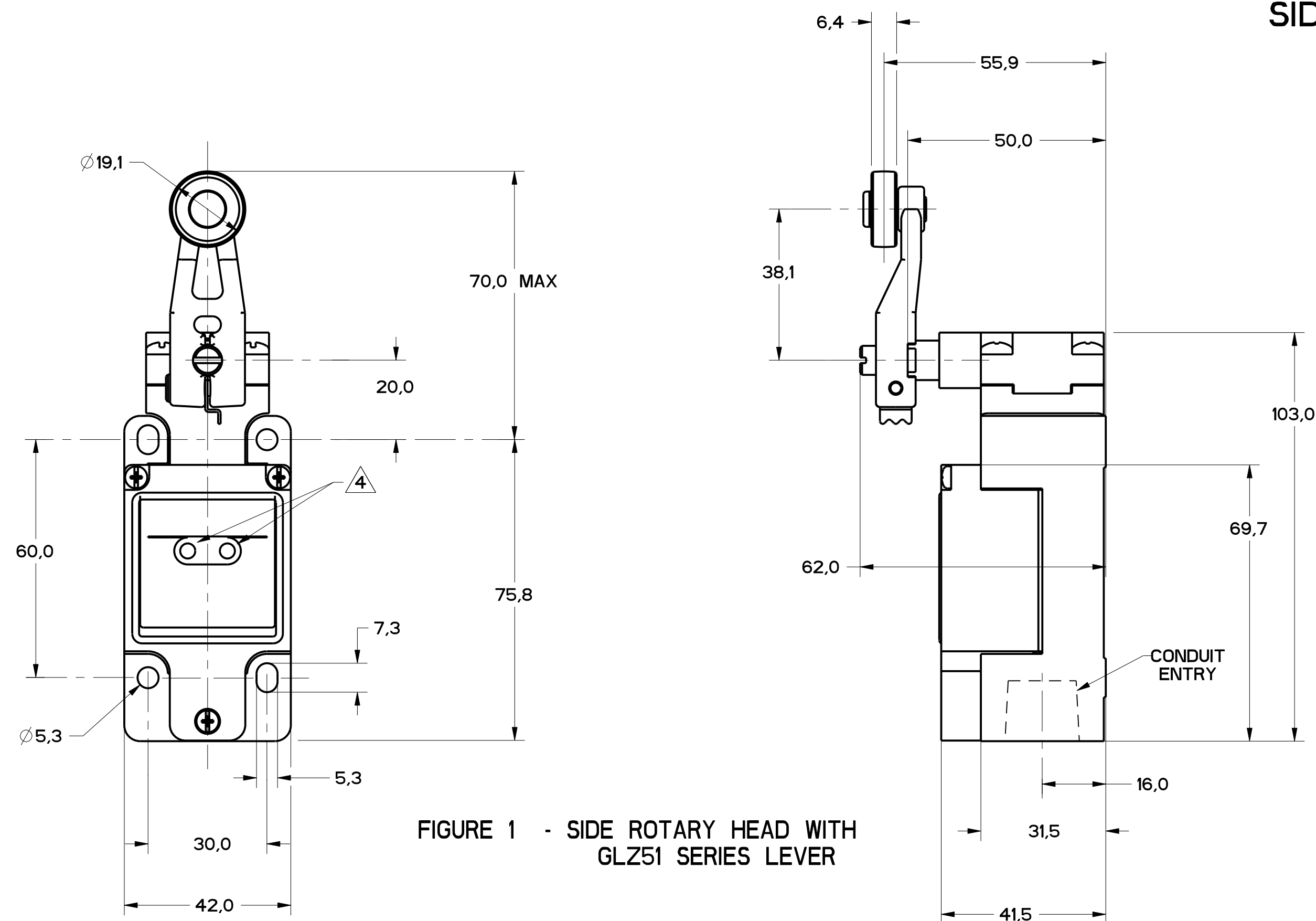


FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

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

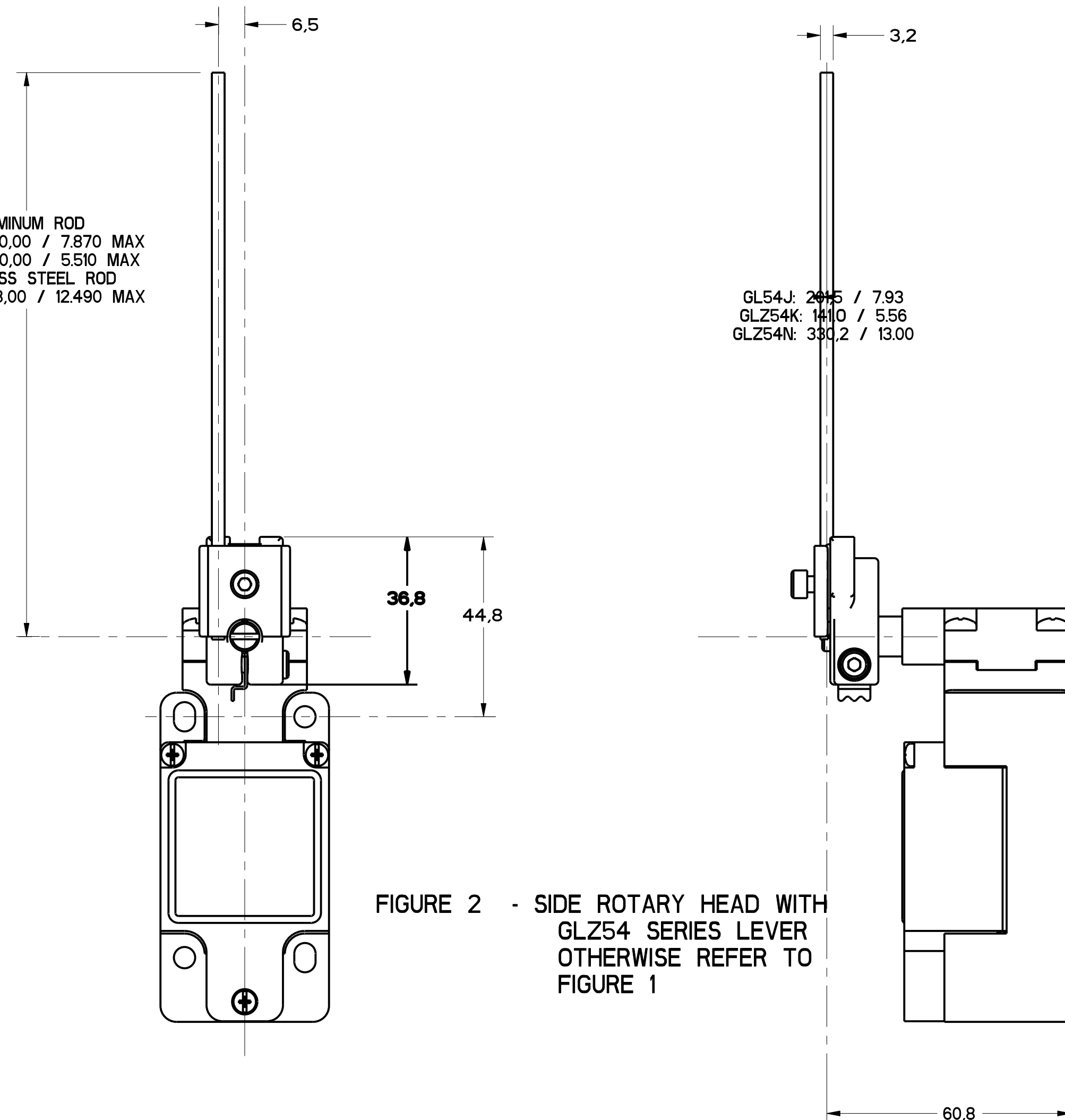


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

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	
Ue	Ie	Ue	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

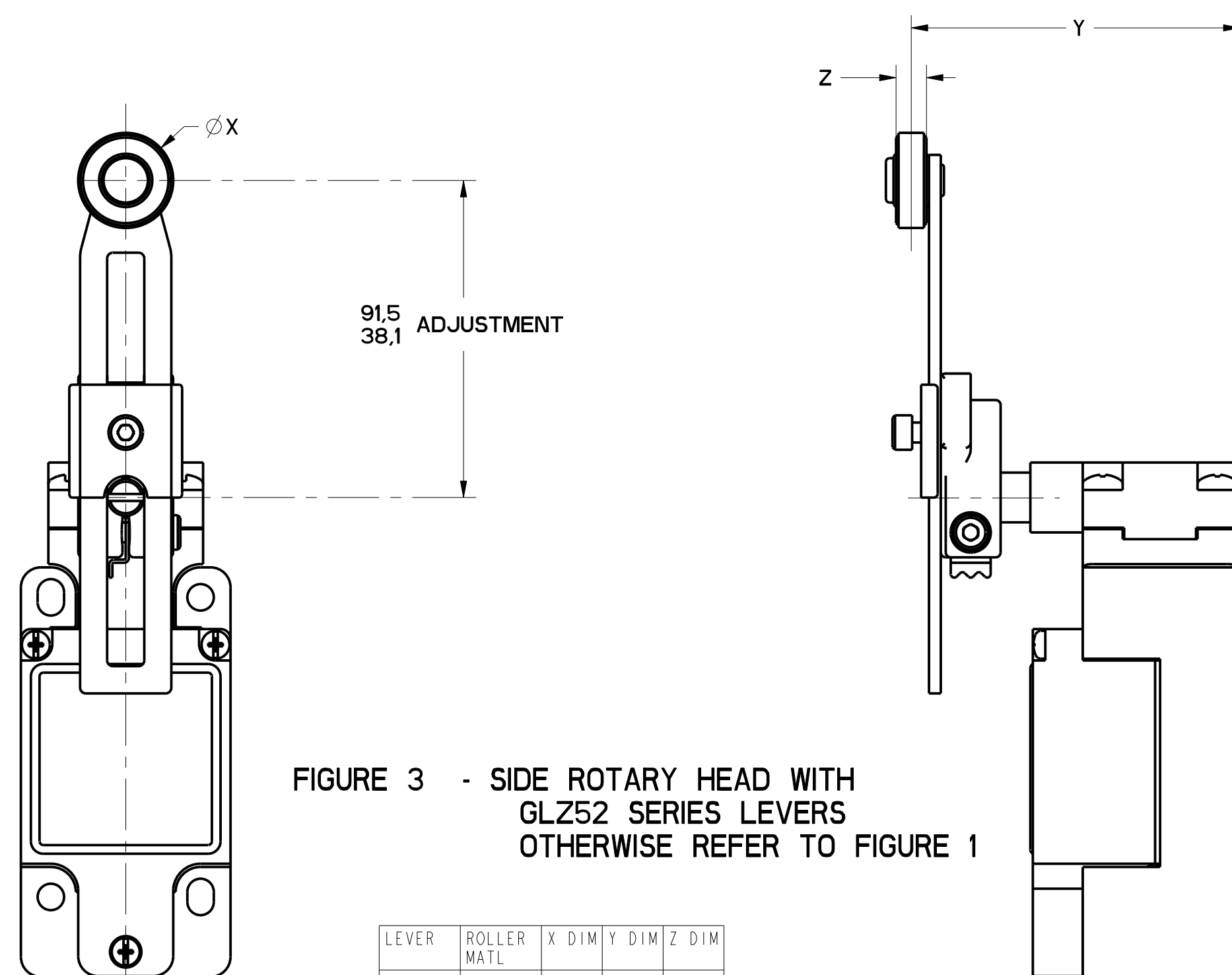


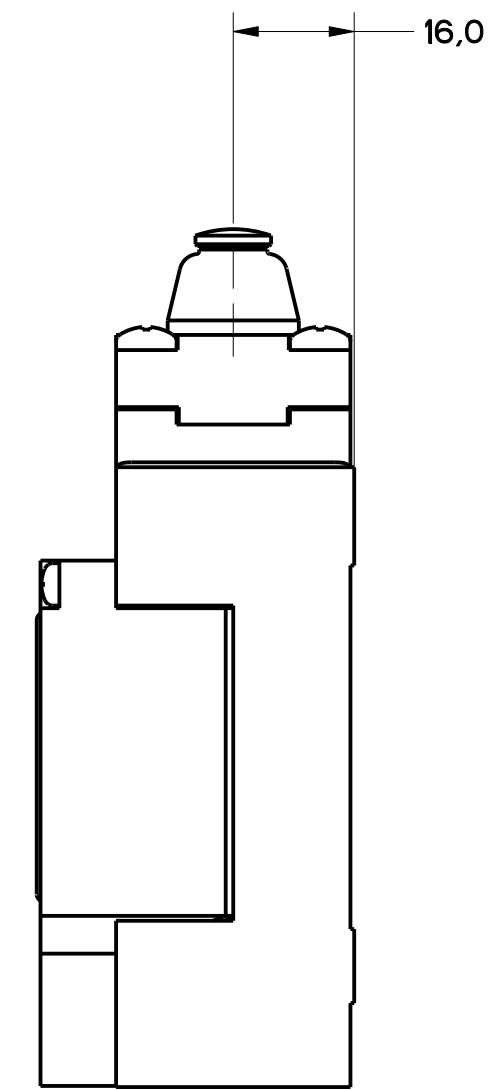
FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

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
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*	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

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FED. MFG. CODE 91929		SWITCH, ENCLOSED	
MICRO SWITCH a Honeywell Division		GL SERIES CHART 2	
DESIGN UNITS		WEIGHT	

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	INCHES	0.0005	0.0005
ONE PLACE	INCHES	0.001	0.001
TWO PLACES	INCHES	0.002	0.002
THREE PLACES	INCHES	0.003	0.003
ANGLES	DEGREES	±0.005	±0.005
SI METRIC		US CUSTOMARY	
DESIGN UNITS		WEIGHT	

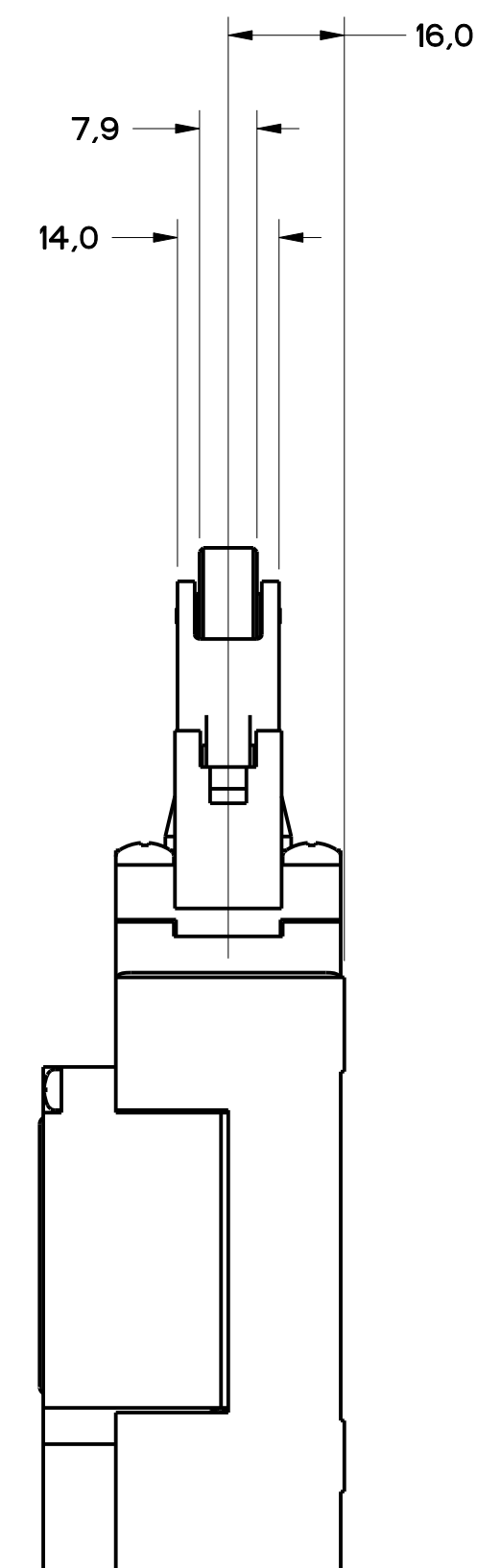


STEEL ROLLER

Ø12,4

50,5

Technical drawing of a lamp head (Fig. 1) showing dimensions 4,7 and 16,0.



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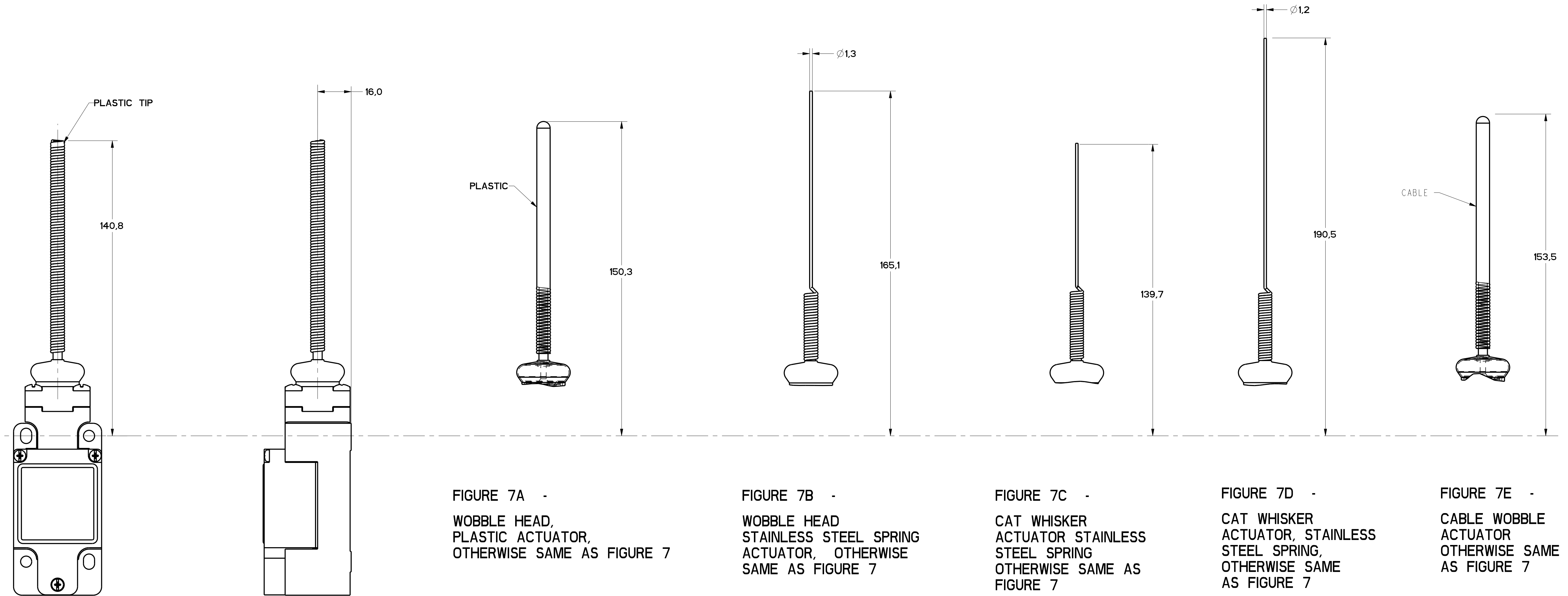


FIGURE 7 - WOBBLE HEAD, AND CAT WHISKER HEAD COIL ACTUATOR, OTHERWISE REFER TO FIGURE 1

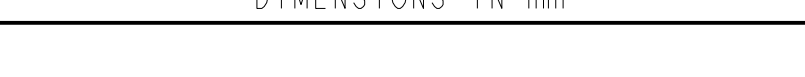
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10	9 MAY 86	93789		
9	10/1/85	280588		
8	0000401			
7	2 JUN 83			
6	0002986			
5	20 JAN 84			
4	0017532			
3	0000085			

GL SERIES CHART 2	PAGE	OF	REPLACES
11	3	8	
10	PR-21557		
9	MDM		
8	02 DEC 05		
7	0000085		
6	0000085		
5	0000085		
4	0000085		
3	0000085		
2	0000085		
1	0000085		

PTC/CAD	DATE	BY	CHKD	APP'D
11	11/15/87	21557		
10	9 MAY 86	93789		
9	10/1/85	280588		
8	0000401			
7	2 JUN 83			
6	0002986			
5	20 JAN 84			
4	0017532			
3	0000085			
2	0000085			
1	0000085			

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FED. MFG. CODE 91929		GL SERIES CHART 2	
MICRO SWITCH a Honeywell Division		SWITCH, ENCLOSED	
DESIGN UNITS		WEIGHT	
SI METRIC		US CUSTOMARY	
NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES		TOL. ±.04 ±.01/.016 ±.01/.006 ±.2°	
TOL. ±.04 ±.01/.016 ±.01/.006 ±.2°		TOL. ±.04 ±.01/.016 ±.01/.006 ±.2°	



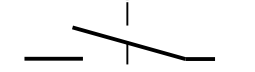
CAM ACTUATION PER EN50041, FIGURES 8 AND 9 							
CATALOG LISTING	CONTACT BLOCK DIAGRAM	 NOMINAL TRAVELS AND RELATED TERMINALS  CONTACT CLOSED,  CONTACT OPEN,  CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5 DIMENSIONS IN mm	MAXIMUM OPERATING FORCE  LB	MAXIMUM DISCONNECT FORCE  LB	MAX OPERATE VEL  in/s **	MIN OPERATE VEL  in/s **	MAX OPERATE FREQUENCY OPS/MIN
GL**02A*	Snap - Action Contacts Single Pole 	02056** 21-2213-14  12 DIFFERENTIAL TRAVEL	9.72.2	11.42.6	.8533.5	8.5.33	250

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.				<table><tr><td>QW</td><td>TOL</td><td>QW</td><td>TOL</td></tr><tr><td>dim</td><td>dim</td><td>"</td><td>"</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>		QW	TOL	QW	TOL	dim	dim	"	"																							
QW	TOL	QW	TOL																																	
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FED. MFG. CODE 91929		CATALOG LISTING																																		
MICRO SWITCH a Honeywell Division		SWITCH, ENCLOSED		GL SERIES CHART 2																																
		<table><tr><td>NO PLACES</td><td>X</td><td>1/2" (4)</td><td>1.4</td><td>0.85/0.915</td></tr><tr><td>ONE PLACE</td><td>X X</td><td>0.47/0.16</td><td>1.1X1</td><td>0.98/1.015</td></tr><tr><td>TWO PLACES</td><td>X X X</td><td>0.15/0.08</td><td>1.1X1</td><td>1.13/1.095</td></tr><tr><td>THREE PLACES</td><td></td><td></td><td></td><td></td></tr><tr><td>ANGLES</td><td></td><td>± 2°</td><td></td><td></td></tr></table>		NO PLACES	X	1/2" (4)	1.4	0.85/0.915	ONE PLACE	X X	0.47/0.16	1.1X1	0.98/1.015	TWO PLACES	X X X	0.15/0.08	1.1X1	1.13/1.095	THREE PLACES					ANGLES		± 2°			<table><tr><td>SI METRIC</td><td>US CUSTOMARY</td></tr><tr><td>DESIGN UNITS</td><td>☒</td></tr><tr><td>WEIGHT</td><td>☐</td></tr></table>		SI METRIC	US CUSTOMARY	DESIGN UNITS	☒	WEIGHT	☐
NO PLACES	X	1/2" (4)	1.4	0.85/0.915																																
ONE PLACE	X X	0.47/0.16	1.1X1	0.98/1.015																																
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ANGLES		± 2°																																		
SI METRIC	US CUSTOMARY																																			
DESIGN UNITS	☒																																			
WEIGHT	☐																																			



FIGURE 12



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

THIRD ANGLE PROJECTION



SCALE

FULL

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: 1

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FED. MFG. CODE 91929

MICRO SWITCH

a Honeywell Division

SWITCH, ENCLOSED

GL SERIES CHART 2

SI METRIC

☒

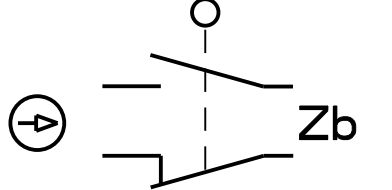
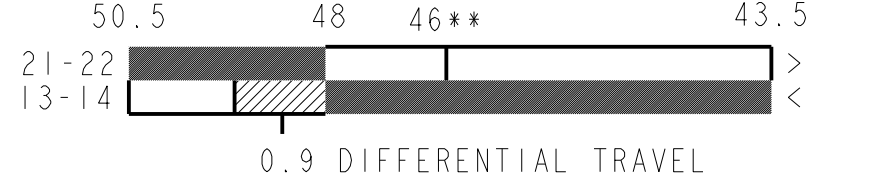
US CUSTOMARY

☐

DIM.	TOL.	DIM.	TOL.
NO PLACES	X	X	0.01
ONE PLACE	X	X	0.01
TWO PLACES	X	X	0.01
THREE PLACES	X	X	0.01
ANGLES	X	X	0.01

REVISIONS		
A	CO	78529
B	CS	81101
C	CO	93188
D	CO	93188
E	CO	93188
F	CO	93188
G	CO	93188
H	CO	93188
I	CO	93188
J	CO	93188
K	CO	93188
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R	CO	93188
S	CO	93188
T	CO	93188
U	CO	93188
V	CO	93188
W	CO	93188
X	CO	93188
Y	CO	93188
Z	CO	93188

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

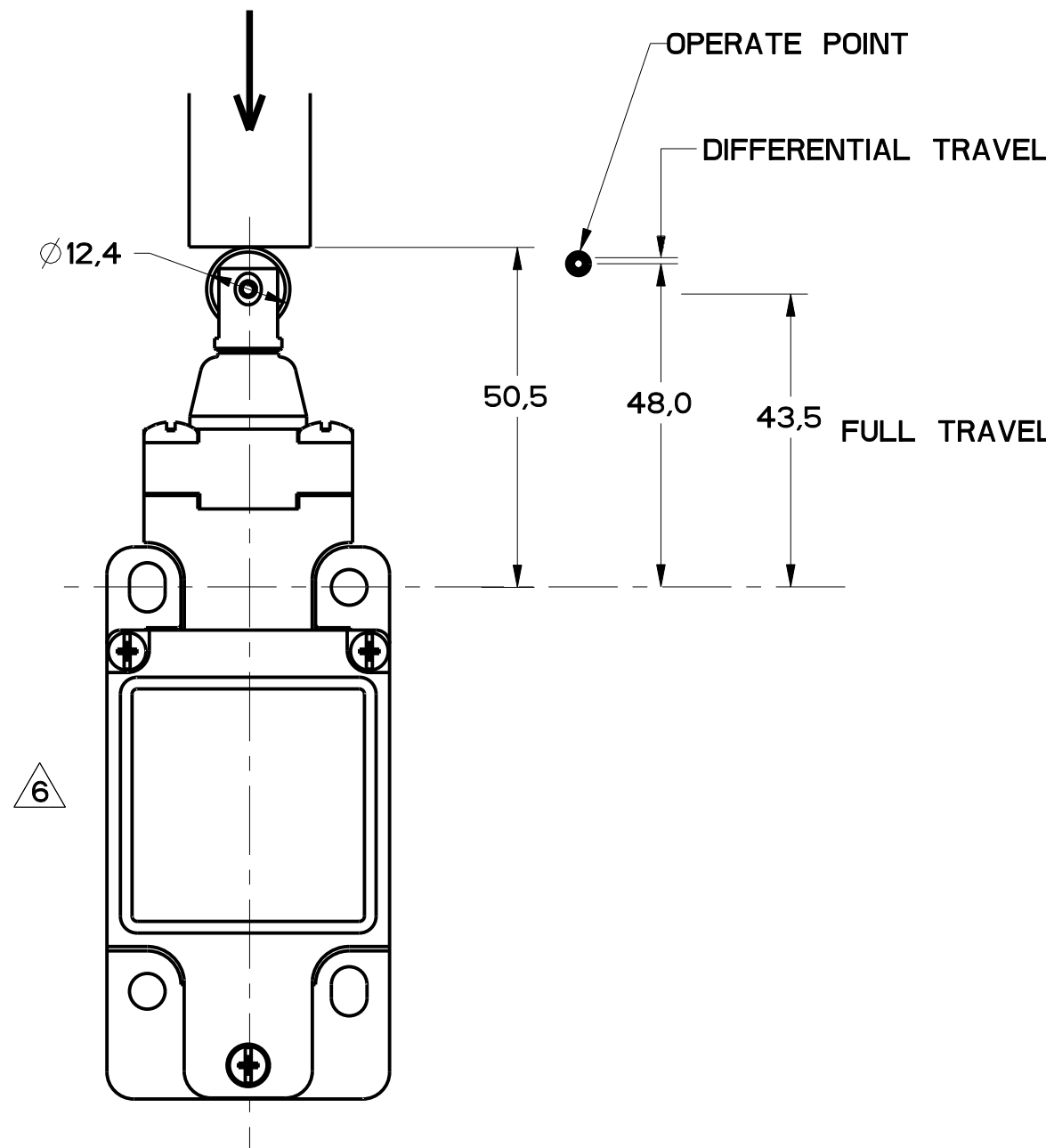


FIGURE 13A

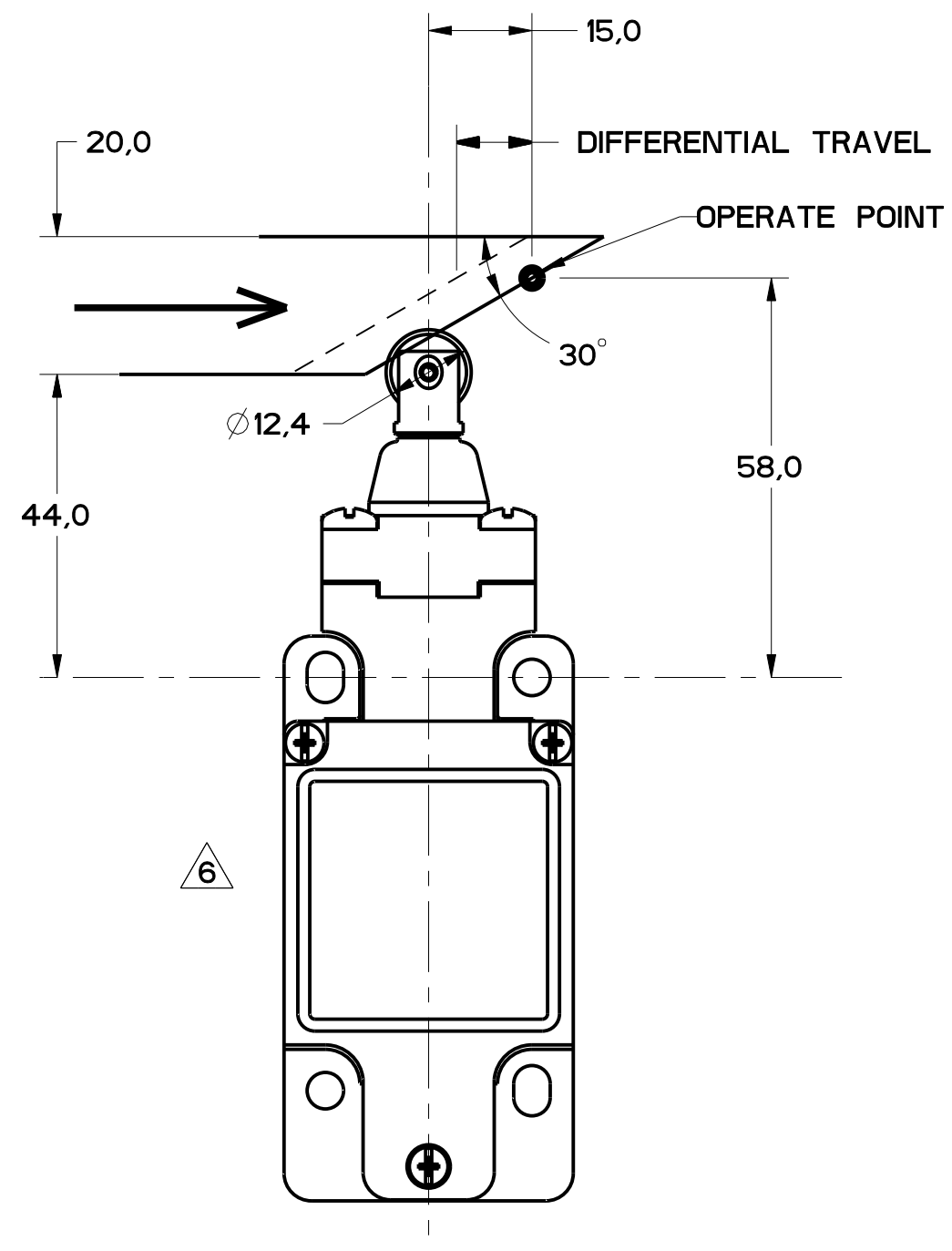
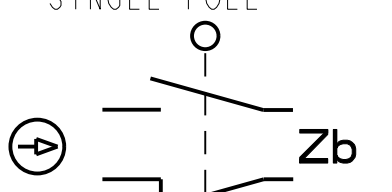
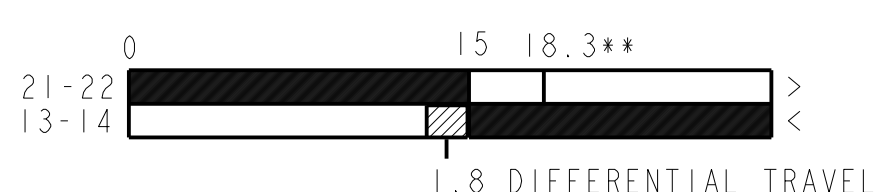


FIGURE 13B

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

THIRD ANGLE PROJECTION

SCALE FULL

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TOLERANCES

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

	IN	TOL	MM	TOL
NO PLACES		1/16	1.0	0.25
ONE PLACE	X	1/32	0.5	0.125
TWO PLACES	X.X	0.015	0.38	0.095
THREE PLACES	X.XX	0.005	0.13	0.03

DESIGN UNITS: SI METRIC [X] US CUSTOMARY []

WEIGHT

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CATALOG LISTING

SWITCH, ENCLOSED

GL SERIES CHART 2

REVISIONS		
A	1	180292
B	1	01
C	20	SEP 94
D	CO	93789
E	REV	200788
F	0000401	
G	011	2 JUN 93
H	0002986	
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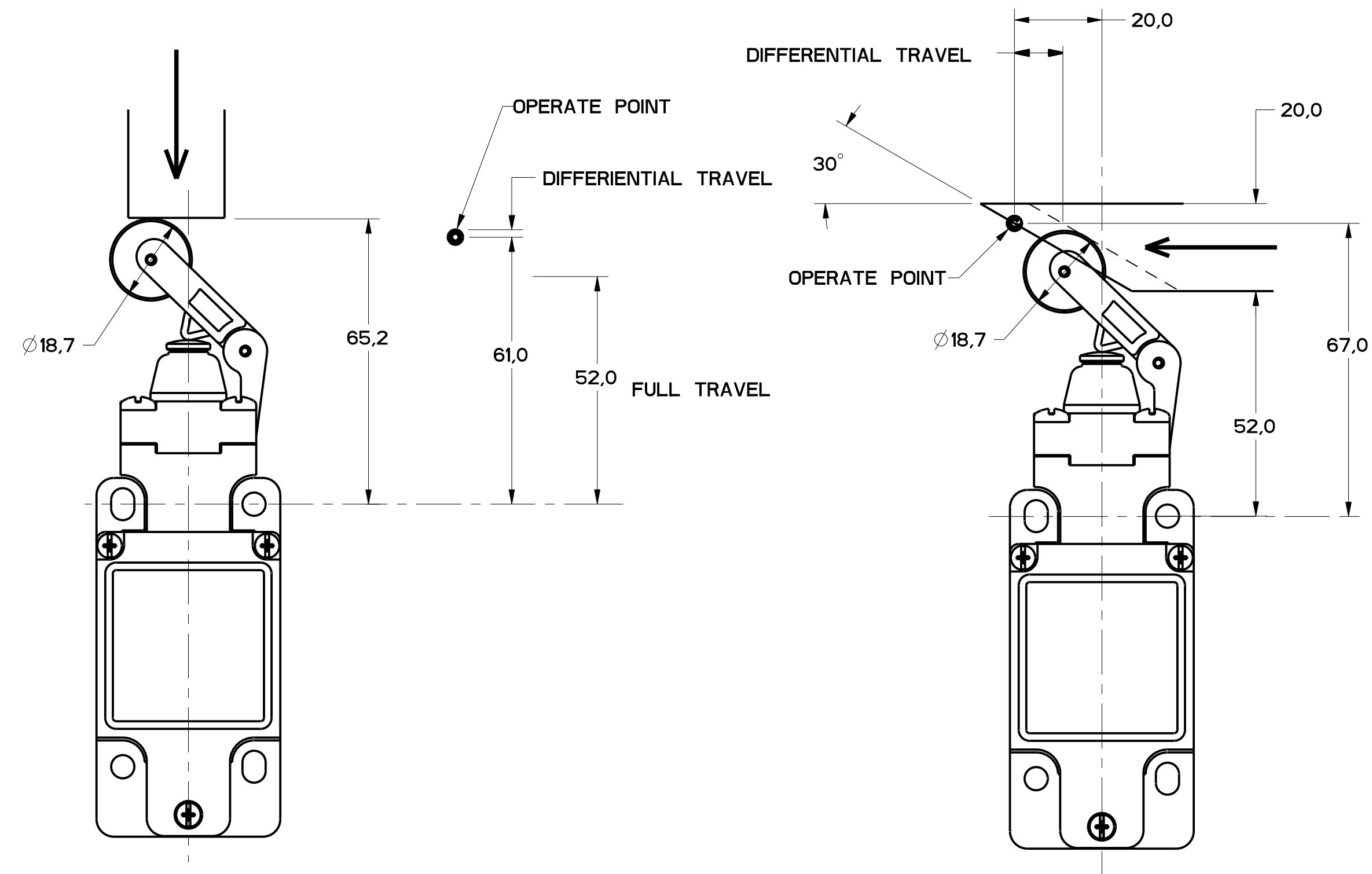


FIGURE 14A

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 LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL M/S in/S	MIN OPERATE VEL M/S in/S
GL**02D	SNAP - ACTION CONTACTS SINGLE POLE 	 1.7 DIFFERENTIAL TRAVEL	9.5 2.1	12 2.7	0.17 6.7	0.067 1.7

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 M/S in/S
GL**02D	SNAP - ACTION CONTACTS SINGLE POLE 	 4.1 DIFFERENTIAL TRAVEL	5.5 1.2	7.0 1.6	0.29 11.4	2.9 1.1

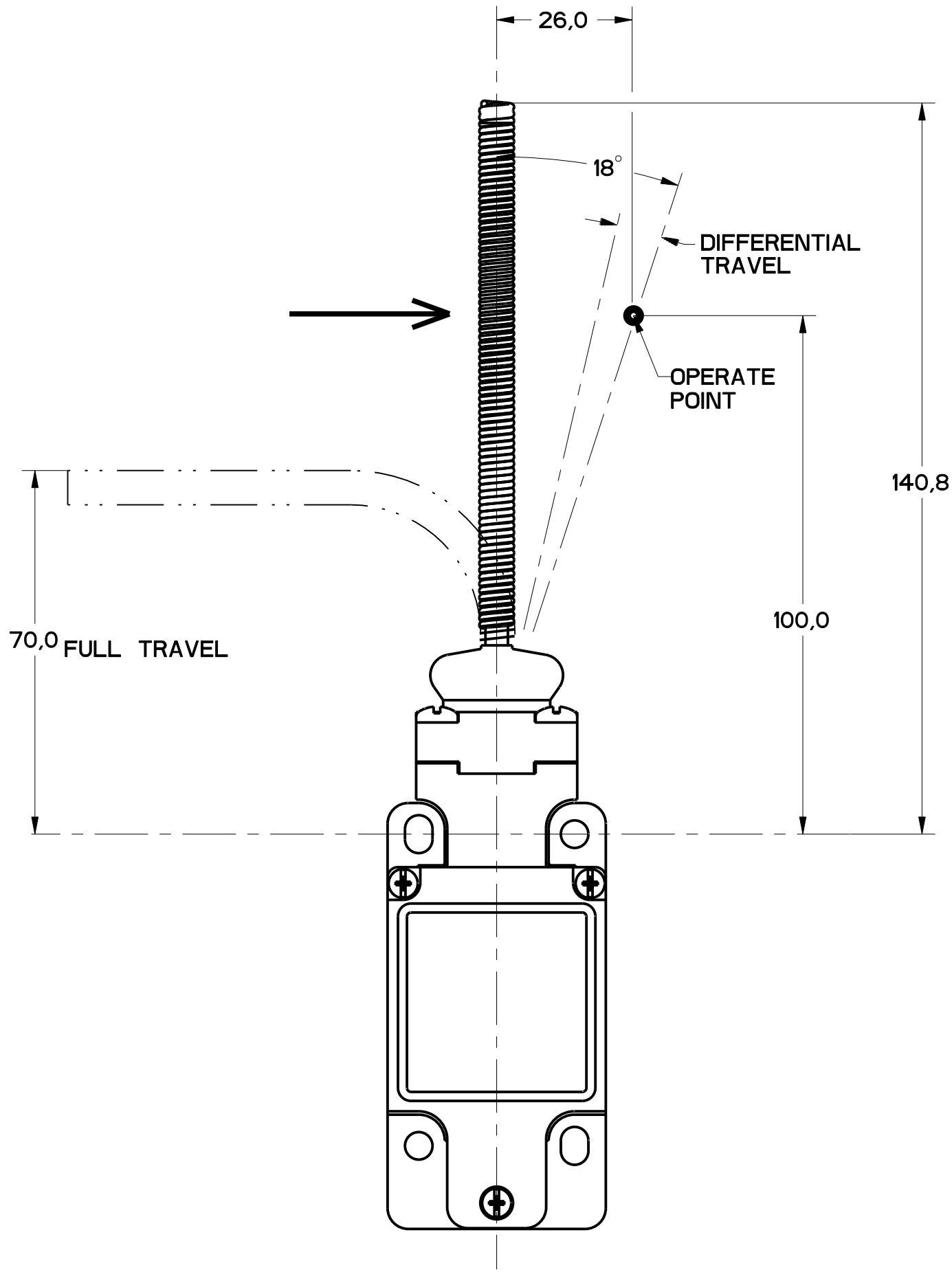


FIGURE 15

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

THIRD ANGLE PROJECTION 			
SCALE FULL			
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