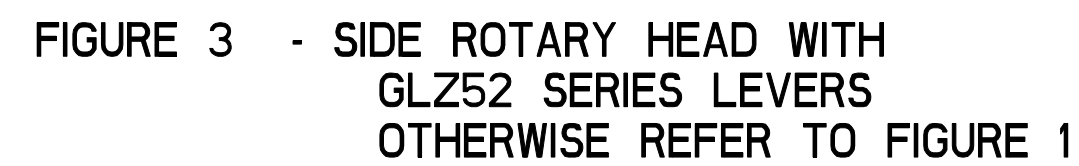


NOTES

- 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 "LM" DRAWING CHART GL25
- 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



LEVER	ROLLER MAYL	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

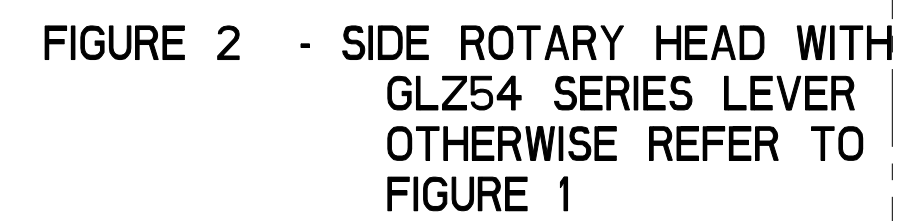


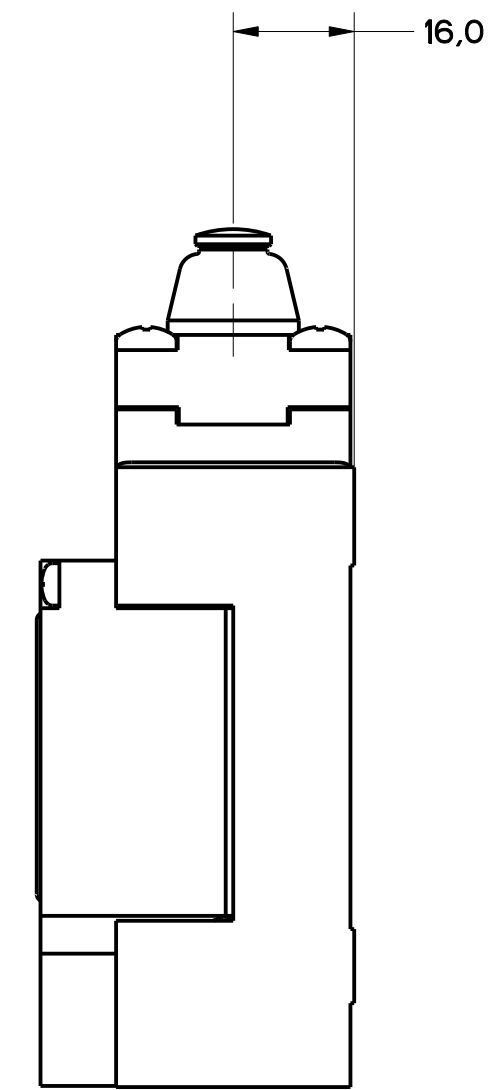
FIGURE	CATALOG LISTING	CONDUIT ENTRY
1A	GL*A SERIES	1/2-14 NPT
1B	GL*B SERIES	PG13.5
1C	GL*C SERIES	20mm
1D	GL*D SERIES	PF1/2

ELECTRICAL RATING <u>5</u>			
AC		DC	
A600 U _e	AC15 I _e	Q300 U _e	DC13 I _e
(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

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***	IA	N/A	N/A
GL*B***	IB	N/A	N/A
GL*C***	IC	N/A	N/A
GL*D***	ID	N/A	N/A
GL****A1*	I	1	8
GL****A2*	I	3	9
GL****A4*	I	2	10
GL****A5*	I		8
GL****B	I	4	11
GL****C	I	5	13A, 13B
GL****D	I	6	14A, 14B
GL****E7A	I	7A	12
GL****E7B	I	7	12
GL****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 INFORMATION - UNLESS NOTED, TOLERANCES ARE:			
	DIM X X .1 X .1 X THREE PLACES ANGLES	TOL .1 / .125 0.4 / 0.125 .006 $\pm .006$	DIM X X .1 X .1 X 0.38 / .015 0.13 / .005
SI METRIC 		US CUSTOMARY 	
DESIGN UNITS			
WEIGHT			

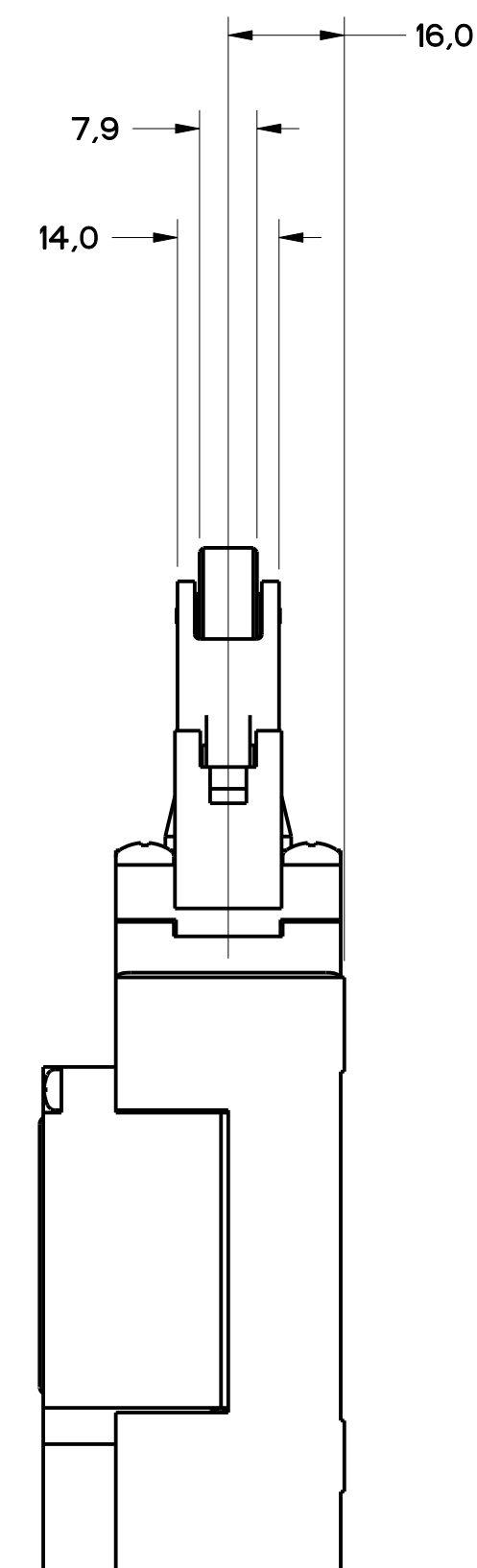


STEEL ROLLER

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 opening. Dimensions are indicated: 4,7 for the diameter of the central opening and 16,0 for the diameter of the base.



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 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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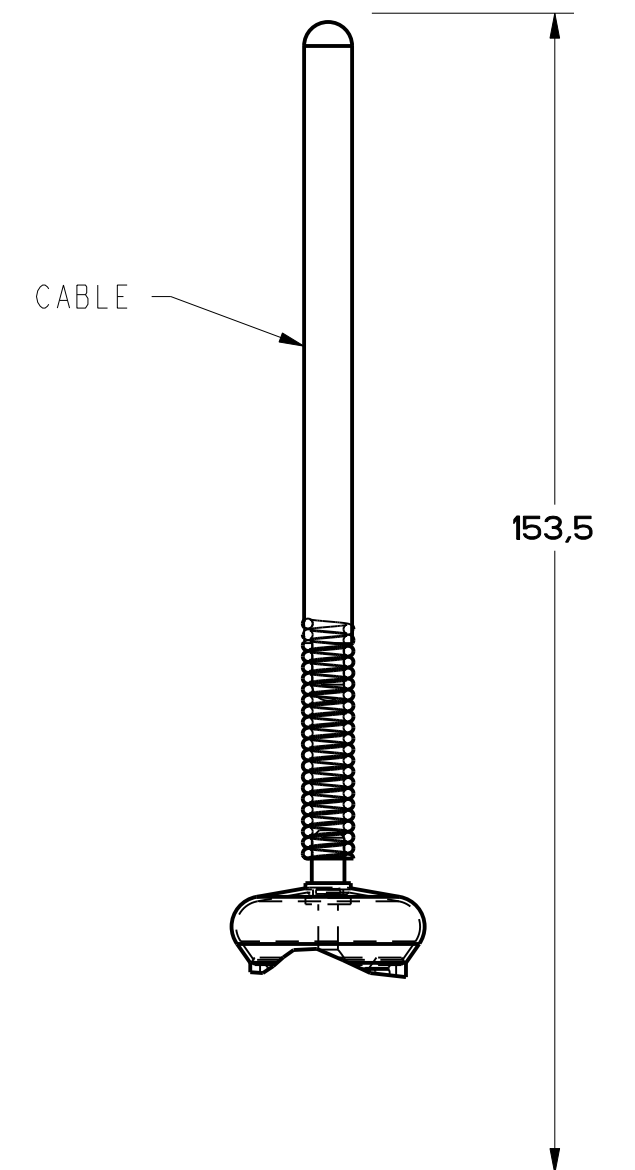
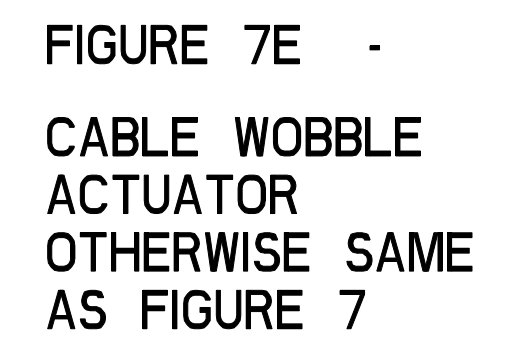
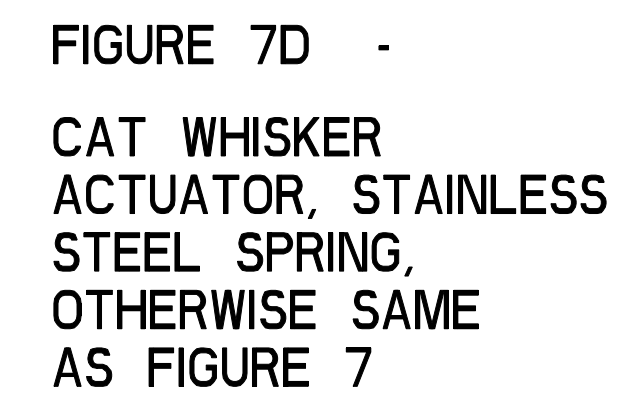
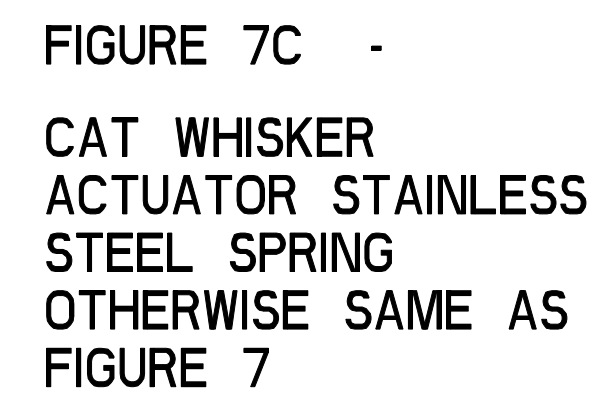
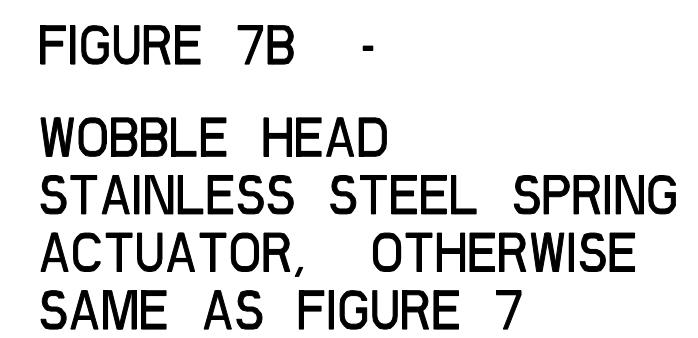
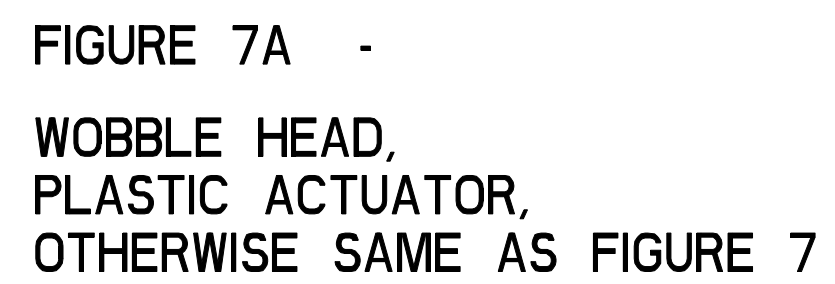


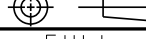
FIGURE 7 - WOBBLE HEAD, AND CAT WHISKER HEAD
COIL ACTUATOR,
OTHERWISE REFER TO
FIGURE 1

FED. MFG. CODE 91929

MICRO SWITCH
a Honeywell Division

CATALOG LISTING

GL SERIES CHART 2

THIRD ANGLE PROJECTION			
	FULL		
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS, CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED, TOLERANCES ARE:			
DIM FRACTION	TOL 1:1 1/64, 0.015	DIM INCHES	TOL 1:1 0.01, 0.03 0.001, 0.015 0.031, 0.05
NO PLACES	X	1:1	0.01, 0.03
ONE PLACE	X.1	1:1	0.001, 0.015
TWO PLACES	X.01	1:1	0.0001, 0.0015
THREE PLACES	X.001	1:1X3	0.00001, 0.00015
FOUR PLACES	X.0001	1:1X3	0.000001, 0.000015
± ±			
SI METRIC X		US CUSTOMARY □	
DESIGN UNITS			
WEIGHT			



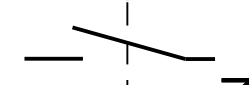
CAM ACTUATION PER EN50041, FIGURES 8 AND 9 							
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS CONTACT CLOSED, CONTACT OPEN, - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 DIMENSIONS IN mm	MAXIMUM OPERATING FORCE N LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL M/S in/S	MIN OPERATE VEL m/S in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02A*	Snap - Action Contacts Single Pole 	0 20 56** > < 21-22 13-14 12 DIFFERENTIAL TRAVEL	9.7 2.2	11.4 2.6	.85 33.5	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>DIM mm</td><td>TOL mm (+/-)</td><td>DIM in</td><td>TOL in (+/-)</td></tr><tr><td>NO PLACES</td><td>X</td><td>1/32</td><td>0.0031</td></tr><tr><td>ONE PLACE</td><td>X, X</td><td>0.41/016</td><td>0.016/015</td></tr><tr><td>TWO PLACES</td><td>X, X, X</td><td>0.15/008</td><td>0.008/005</td></tr><tr><td>THREE PLACES</td><td></td><td>$\pm$</td><td>0.10/005</td></tr><tr><td>ANGLES</td><td></td><td></td><td></td></tr></table>		DIM mm	TOL mm (+/-)	DIM in	TOL in (+/-)	NO PLACES	X	1/32	0.0031	ONE PLACE	X, X	0.41/016	0.016/015	TWO PLACES	X, X, X	0.15/008	0.008/005	THREE PLACES		$\pm$	0.10/005	ANGLES			
DIM mm	TOL mm (+/-)	DIM in	TOL in (+/-)																								
NO PLACES	X	1/32	0.0031																								
ONE PLACE	X, X	0.41/016	0.016/015																								
TWO PLACES	X, X, X	0.15/008	0.008/005																								
THREE PLACES		$\pm$	0.10/005																								
ANGLES																											
FED. MFG. CODE 91929	CATALOG LISTING																										
 MICRO SWITCH a Honeywell Division	SWITCH, ENCLOSED	GL SERIES CHART 2	<table><tr><td>SI METRIC</td><td>US CUSTOMARY</td></tr><tr><td>DESIGN UNITS</td><td>☒</td></tr></table>	SI METRIC	US CUSTOMARY	DESIGN UNITS	☒																				
		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 	 12 DIFFERENTIAL TRAVEL	$\frac{2.5}{0.6}$	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 :

	IN	MM	IN	MM
NO PLACES	0.001	0.025	0.001	0.025
ONE PLACE	0.002	0.050	0.002	0.050
TWO PLACES	0.003	0.075	0.003	0.075
THREE PLACES	0.004	0.100	0.004	0.100
ANGLES	1/2	1/2	1/2	1/2

FED. MFG. CODE 91929

MICRO SWITCH
a Honeywell Division

SWITCH, ENCLOSED

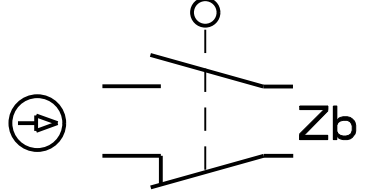
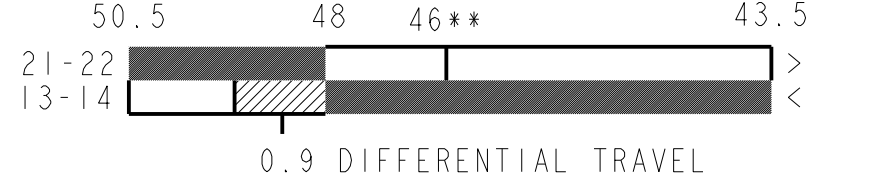
CATALOG LISTING
GL SERIES CHART 2

DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY ☐

ANSL X-14 FM 1000 APR 1965

REVISIONS		
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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
L	CO	93188
M	CO	93188
N	CO	93188
O	CO	93188
P	CO	93188
Q	CO	93188
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

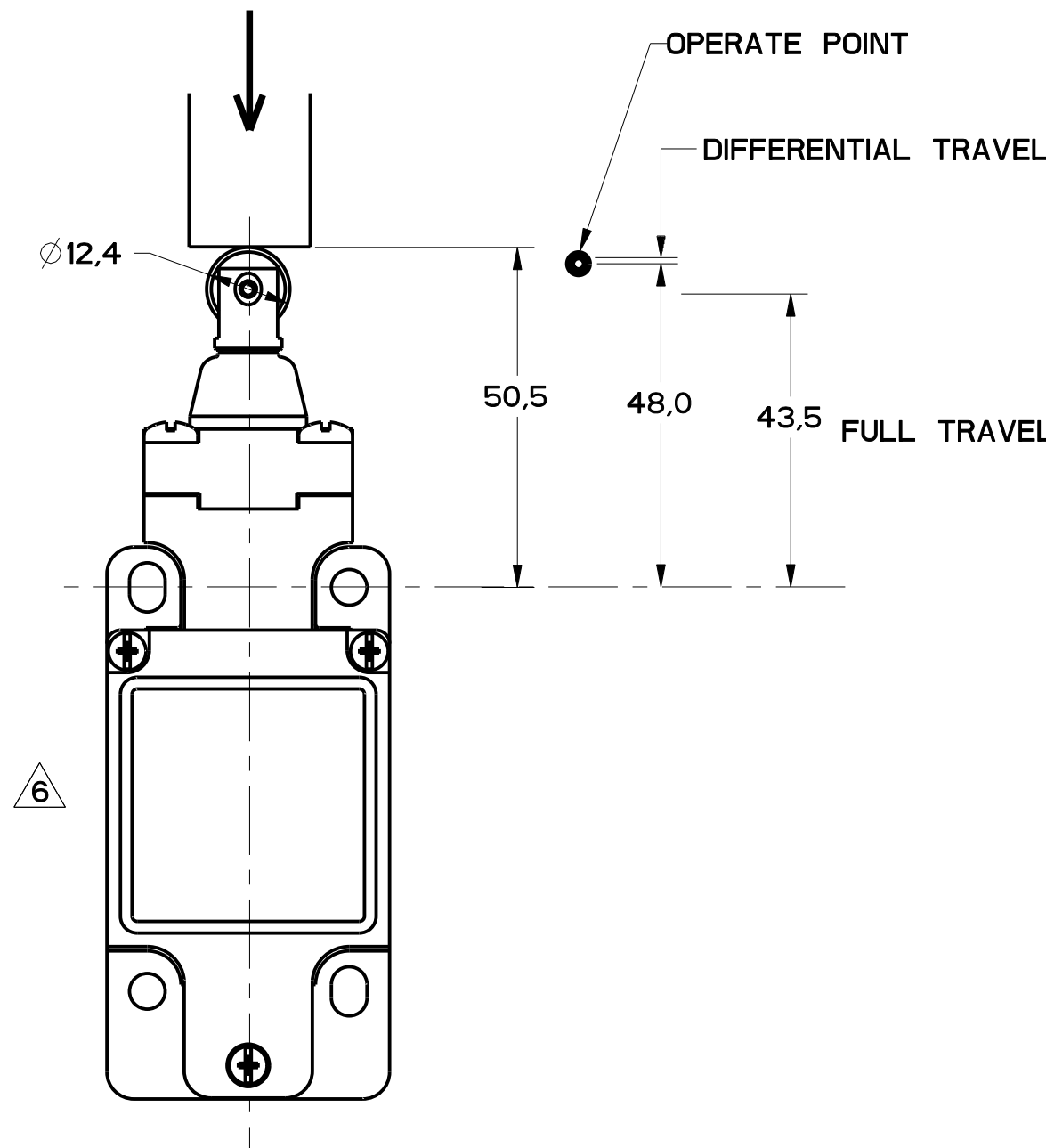


FIGURE 13A

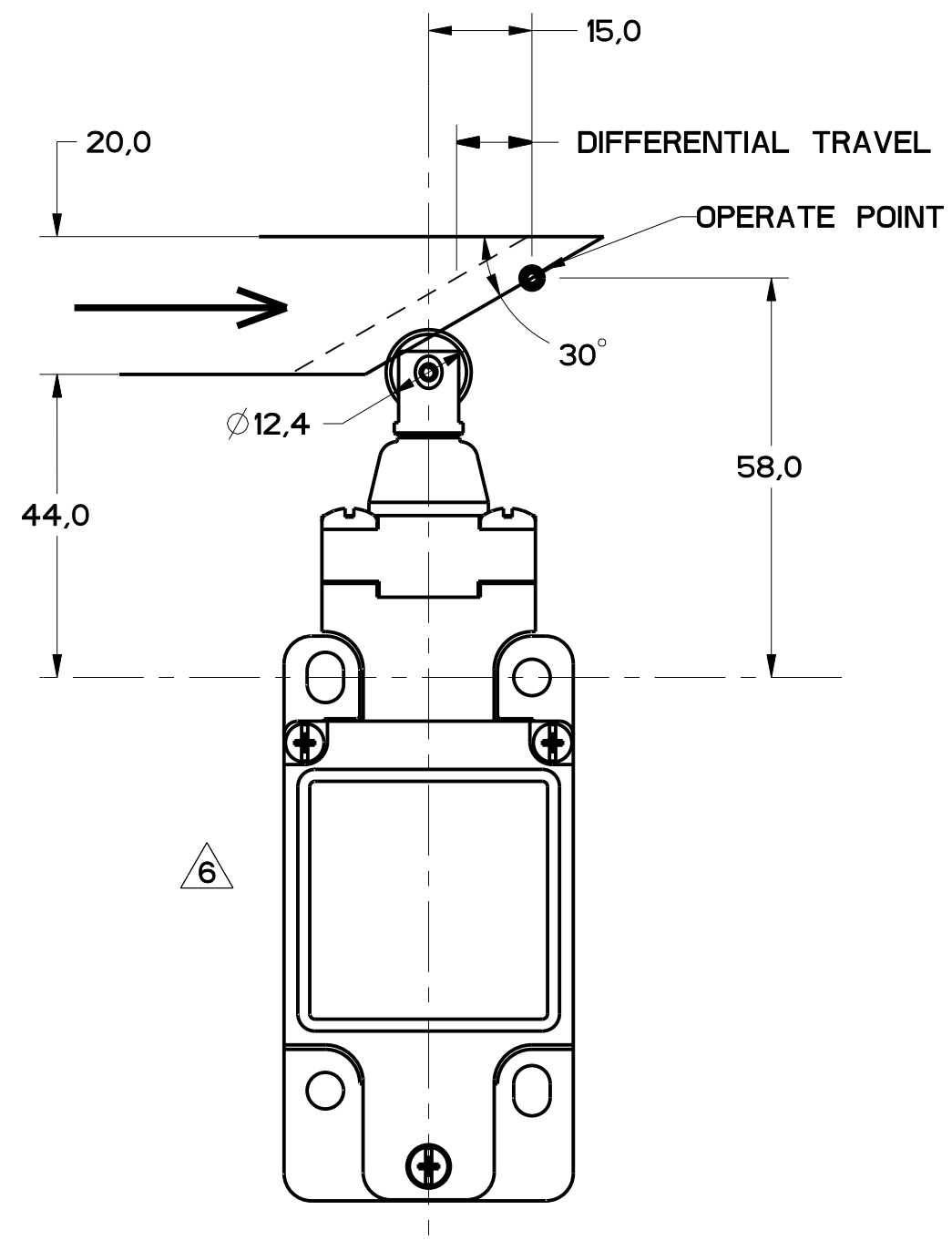
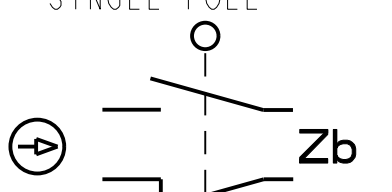
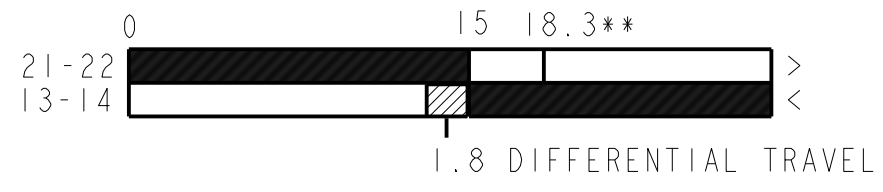
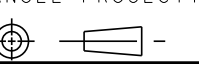


FIGURE 13B

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			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE:			
NO PLACES	1/16	1/32	1/64
ONE PLACE	1/16	1/32	1/64
TWO PLACES	1/16	1/32	1/64
THREE PLACES	1/16	1/32	1/64
DESIGN UNITS	SI METRIC	US CUSTOMARY	
WEIGHT			

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

REVISIONS		
A	1	180292
B	1	01
C	20	SEP 94
D	CO	93789
E	REV	200788
F	0000401	
G	001	2 JUN 93
H	0002986	
I	20	JAN 94
J	0017532	
K	000	020005

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**02D	SNAP - ACTION CONTACTS SINGLE POLE 	 1.7 DIFFERENTIAL TRAVEL	$\frac{9.5}{2.1}$	$\frac{12}{2.7}$	$\frac{0.17}{6.7}$	$\frac{1.7}{.067}$	250

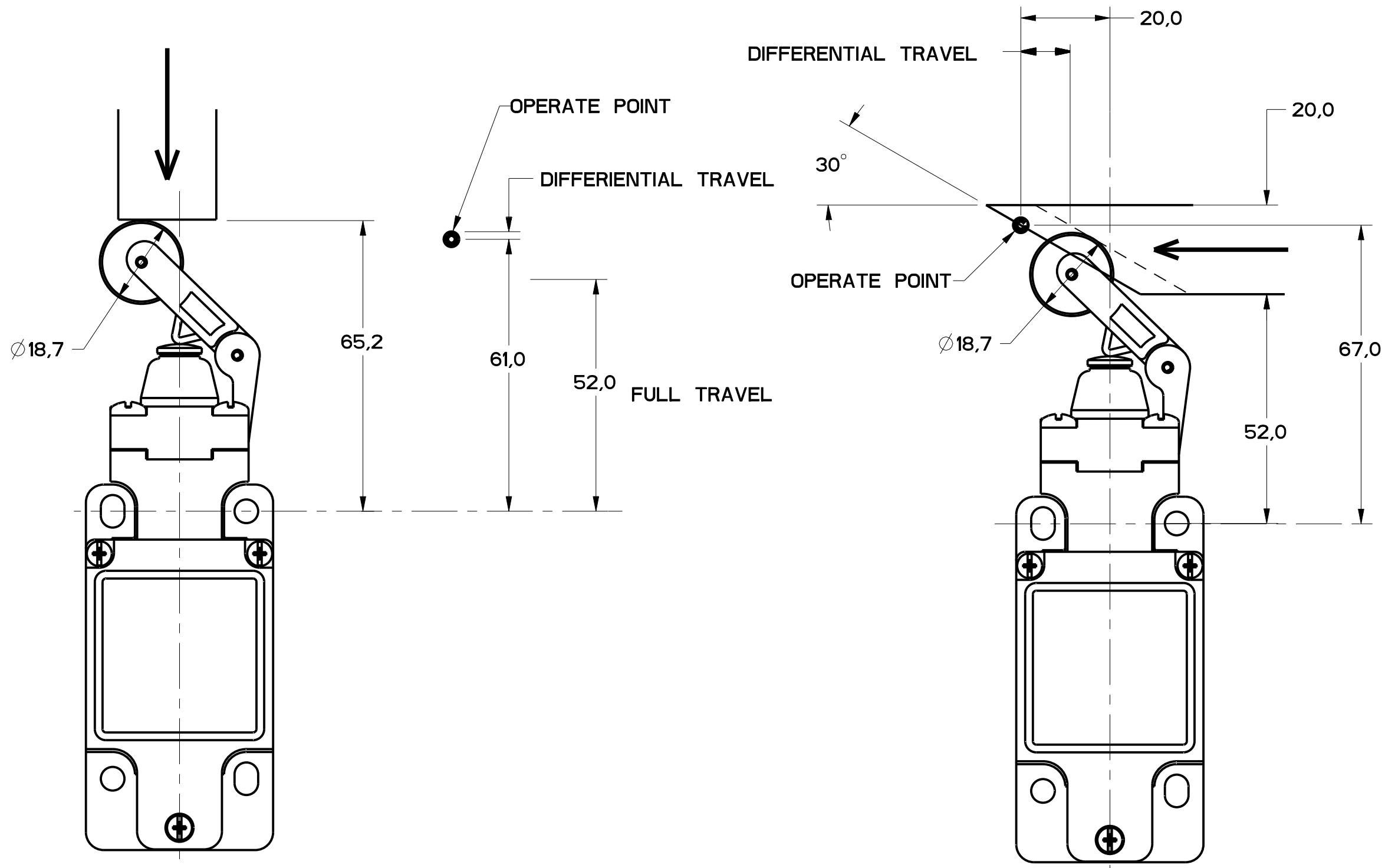


FIGURE 14A

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 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**02D	SNAP - ACTION CONTACTS SINGLE POLE 	 4.1 DIFFERENTIAL TRAVEL	$\frac{5.5}{1.2}$	$\frac{7.0}{1.6}$	$\frac{0.29}{11.4}$	$\frac{2.9}{.11}$	250

THIRD ANGLE PROJECTION			
SCALE FULL			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE:			
	SI METRIC	US CUSTOMARY	
NO PLACES	X	1/16	1/16
ONE PLACE	X.X	0.0156	0.0156
TWO PLACES	X.XX	0.00156	0.00156
THREE PLACES	X.XXX	0.000156	0.000156
ANGLES	±	±	±
DESIGN UNITS	X		
WEIGHT			

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

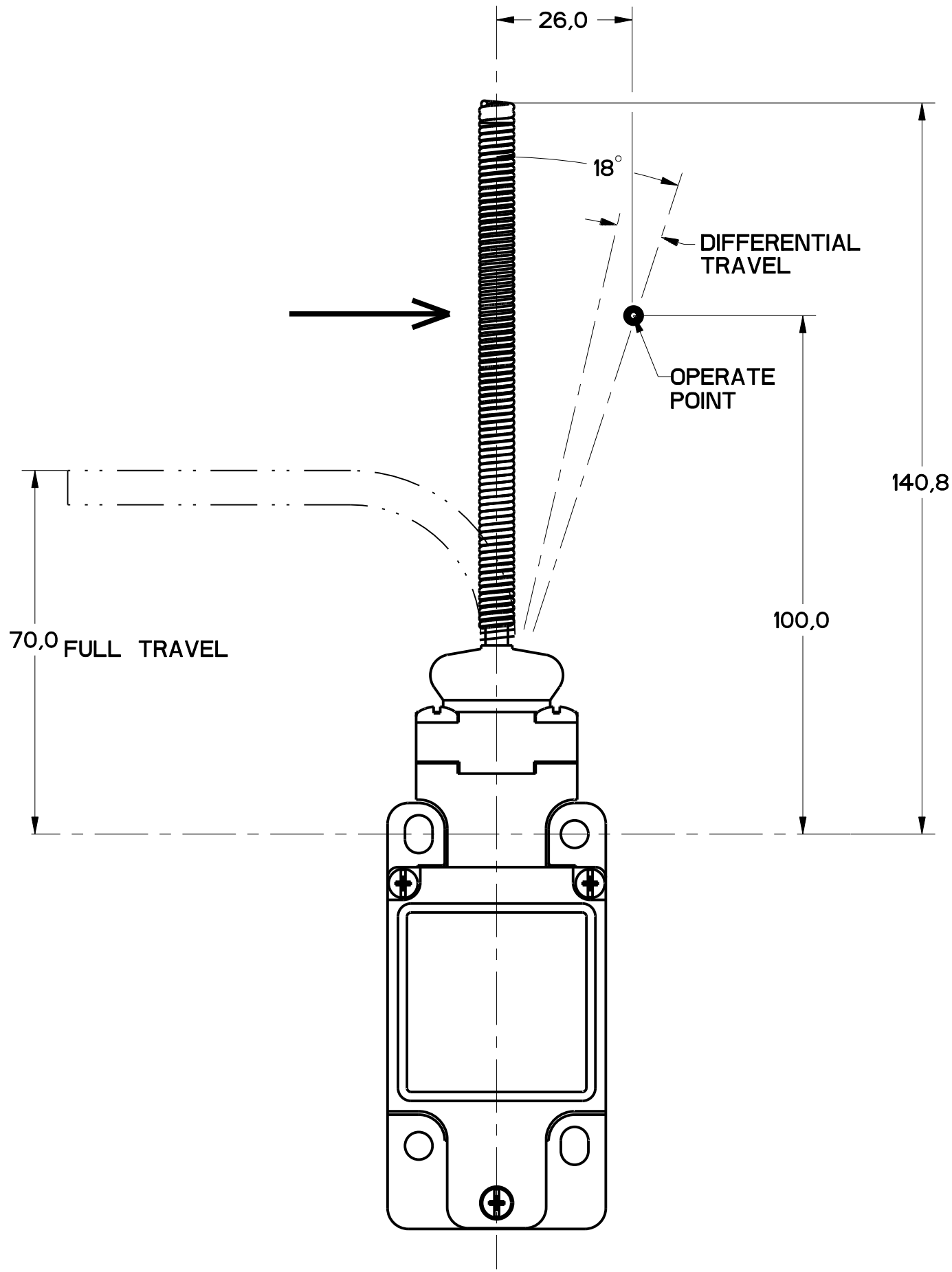


FIGURE 15

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			
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES	1	1/16	1/16
ONE PLACE	1/16	1/32	1/32
TWO PLACES	1/32	1/64	1/64
THREE PLACES	1/64	1/128	1/128
DESIGN UNITS	SI METRIC	US CUSTOMARY	
	☒	☐	
WEIGHT			

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FED. MFG. CODE 91929		GL SERIES CHART 2	
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