

SIDE ROTARY

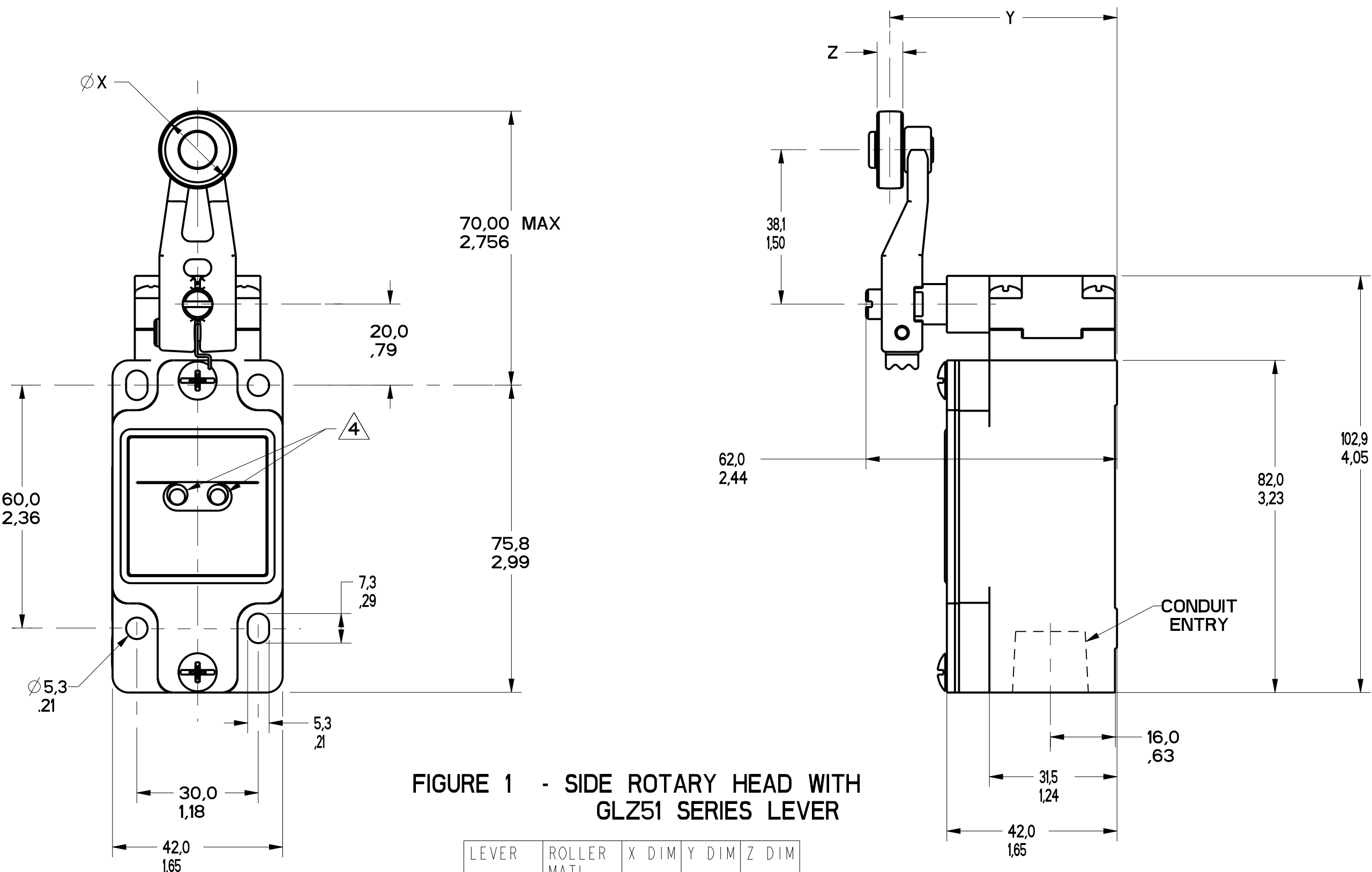


FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

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

GLZ54J: 200.00 / 7.870 MAX
GLZ54K: 140.00 / 5.510 MAX
ALUMINUM ROD

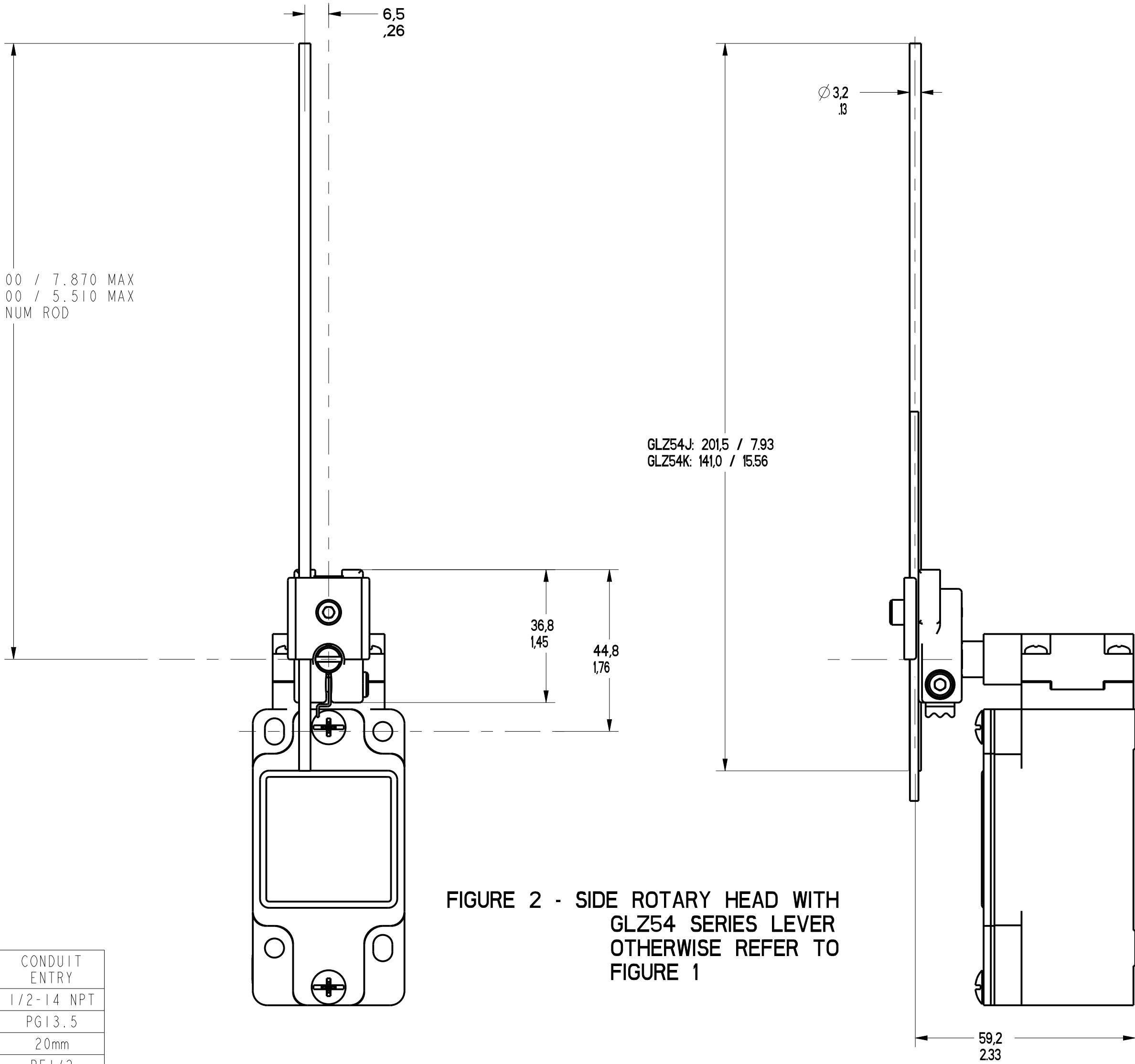


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

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)	1V 10µA MIN 50V 100mA MAX
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
GLA***	I	N/A	N/A
GLF***	I	N/A	N/A
GLH***	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*	1	8	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

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, V_e OF GLF AND GLH SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS
6 - FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL TO EN50041
7 - CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38.1 / 1.50
8 - THE MAXIMUM VOLTAGE, V_e 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

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FED. MFG. CODE 91929		GL SERIES CHART 1	
MICRO SWITCH a Honeywell Division		SWITCH, ENCLOSED	

THIRD ANGLE PROJECTION			
SCALE 1:1			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES	SI METRIC X X.X X.XX ±.2	TOL mm 0.0154 0.151, .006 ±.2	US CUSTOMARY INCHES X X.X X.XX ±.005 ±.01 ±.015, .005
DESIGN UNITS			
WEIGHT			

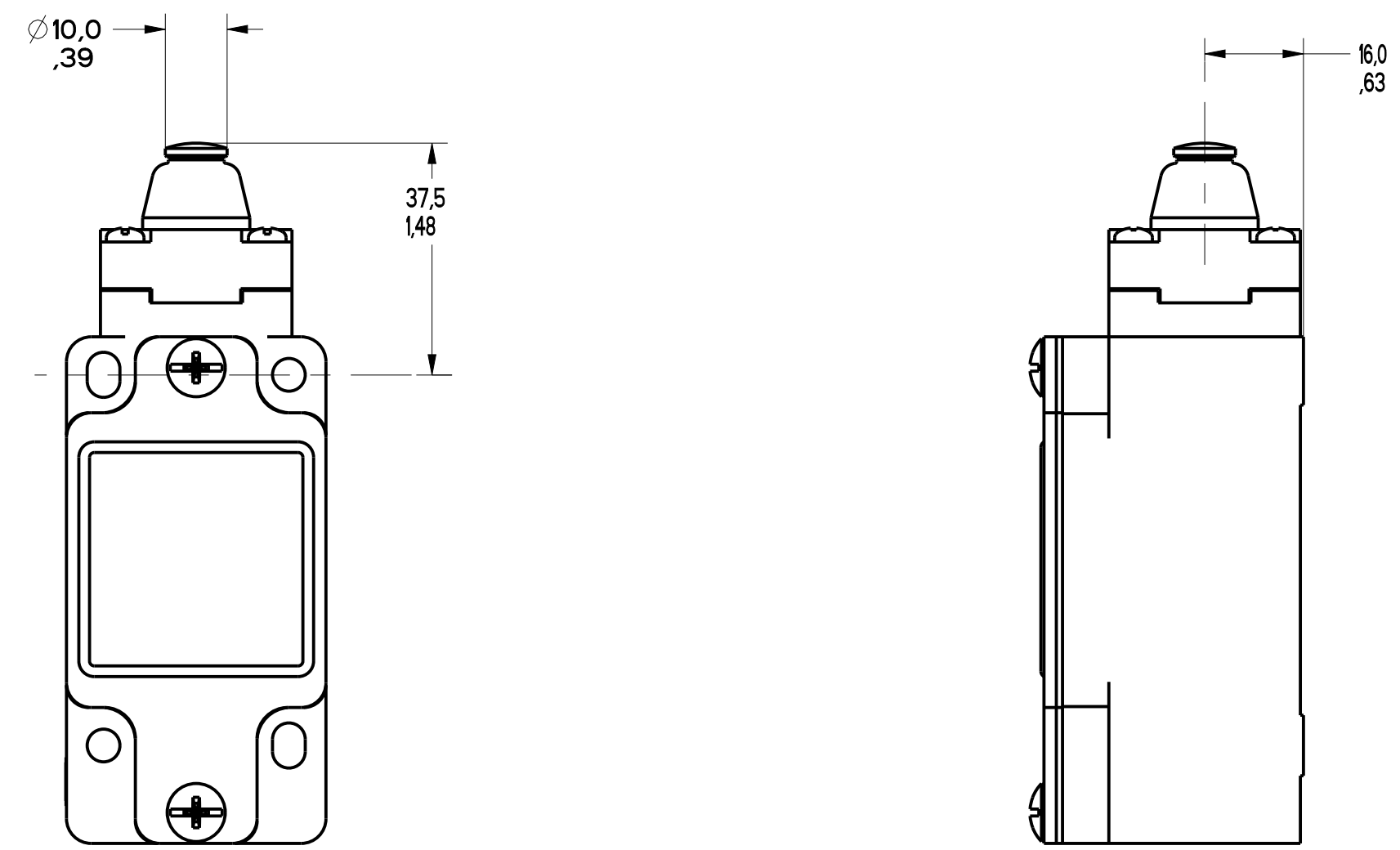


FIGURE 4 - TOP PIN PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

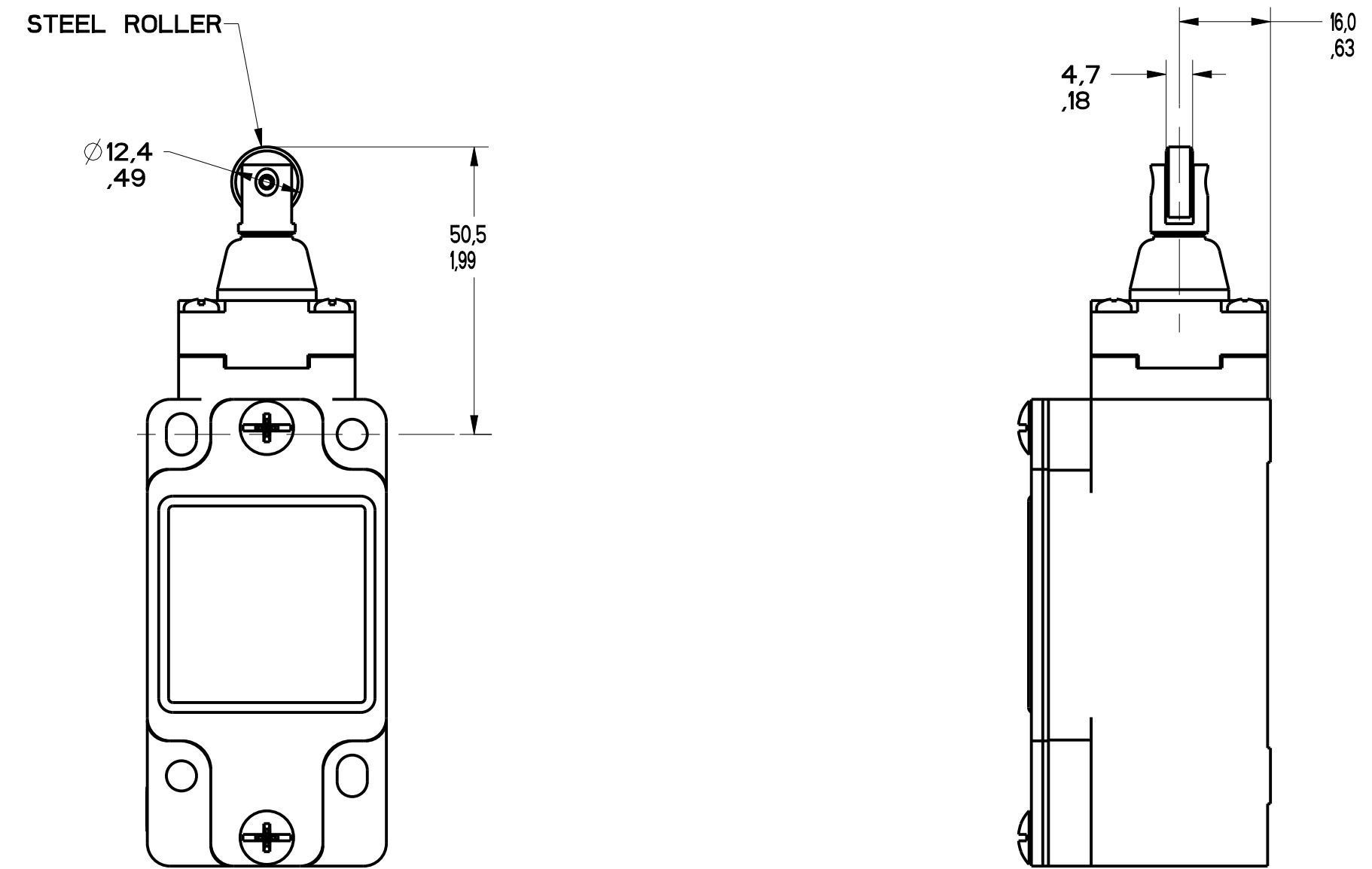


FIGURE 5 - TOP ROLLER PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

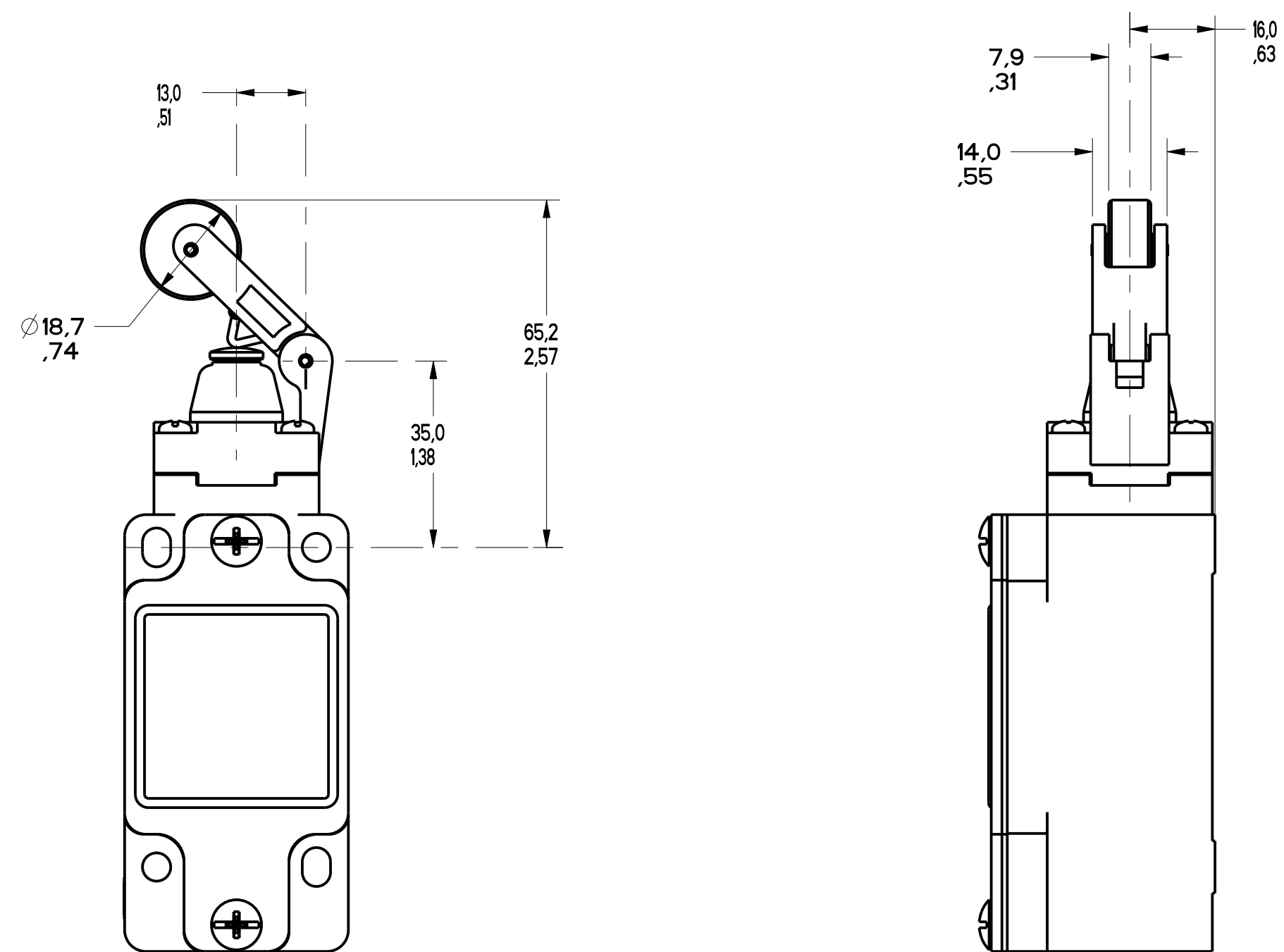


FIGURE 6 - TOP LEVER HEAD,
OTHERWISE REFER TO
FIGURE 1

[illegible]

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FED. MFG. CODE 91929		CATALOG LISTING	
		GL SERIES CHART 1	
		WEIGHT	
			

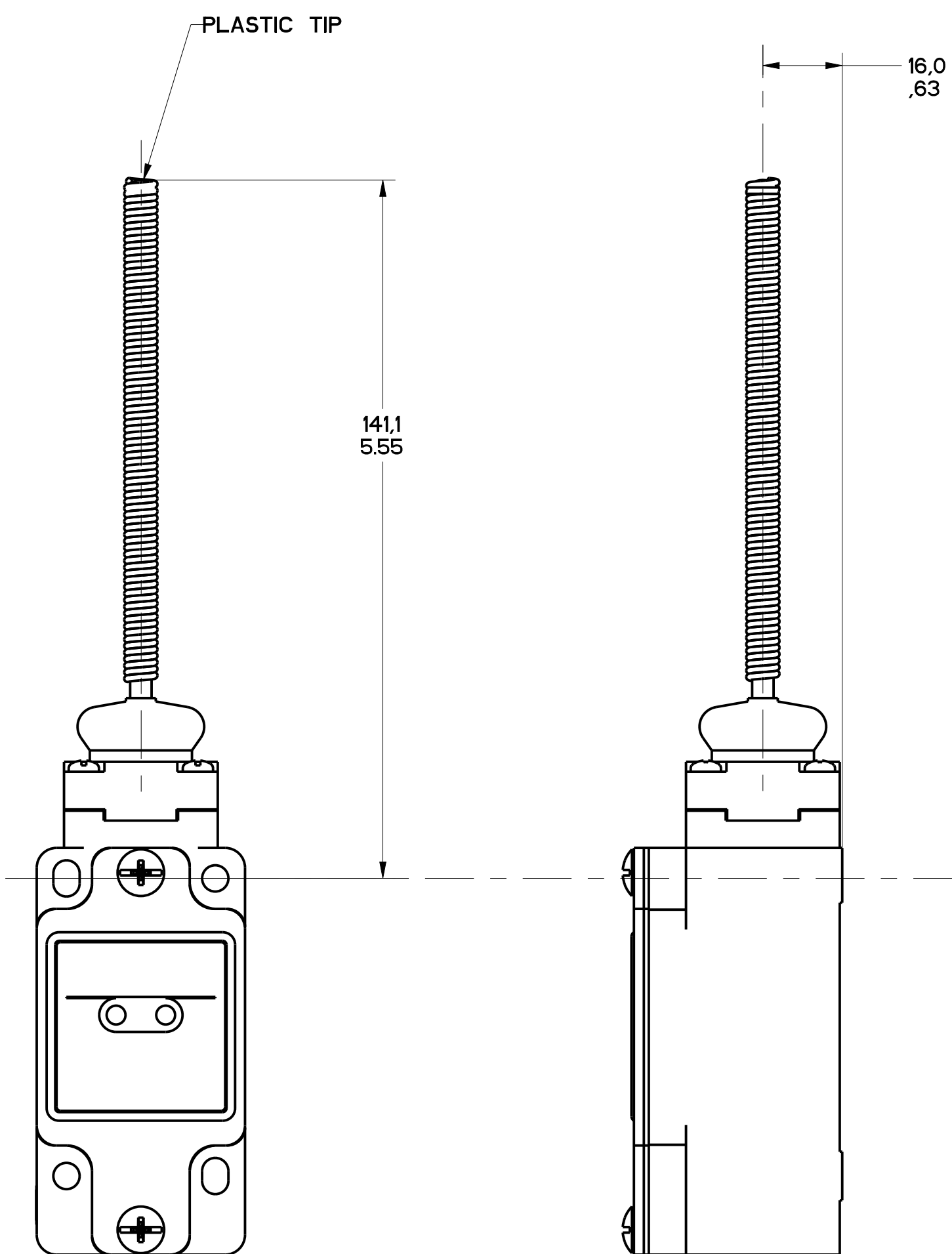


FIGURE 7 - WOBBLE HEAD, AND CAT WISKER HEAD
COIL ACTUATOR,
OTHERWISE REFER TO
FIGURE 1

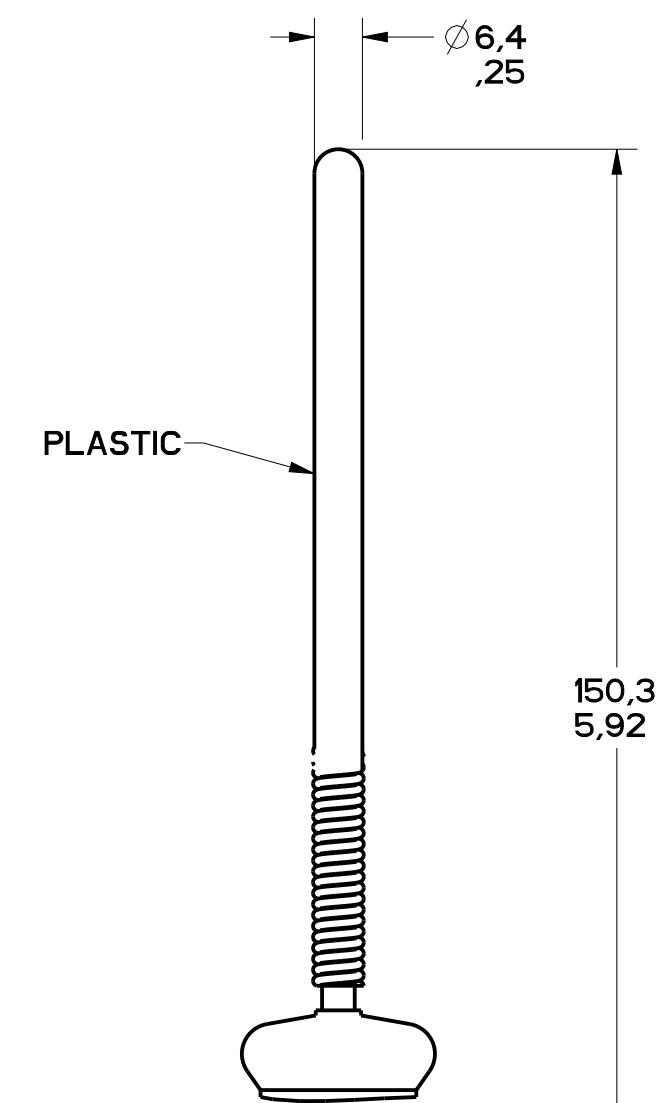


FIGURE 7A -
WOBBLE HEAD,
PLASTIC ACTUATOR,
OTHERWISE SAME AS FIGURE 7

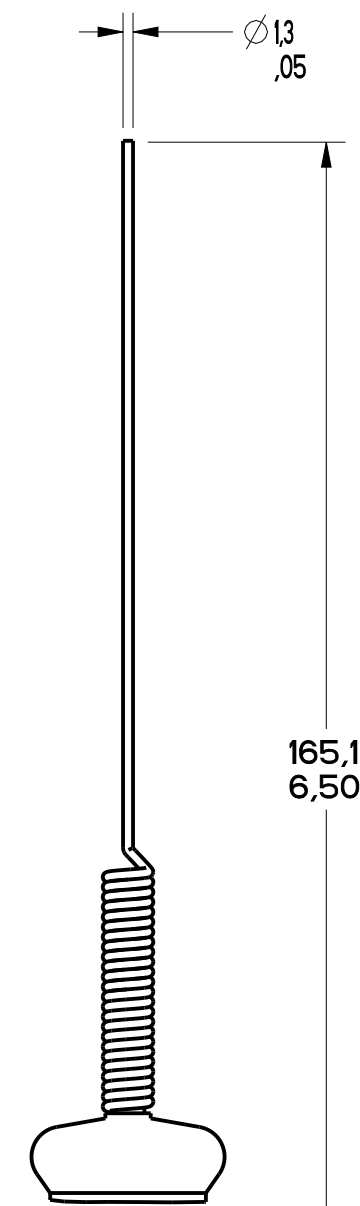


FIGURE 7B -
WOBBLE HEAD
STAINLESS STEEL SPRING
ACTUATOR, OTHERWISE
SAME AS FIGURE 7



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

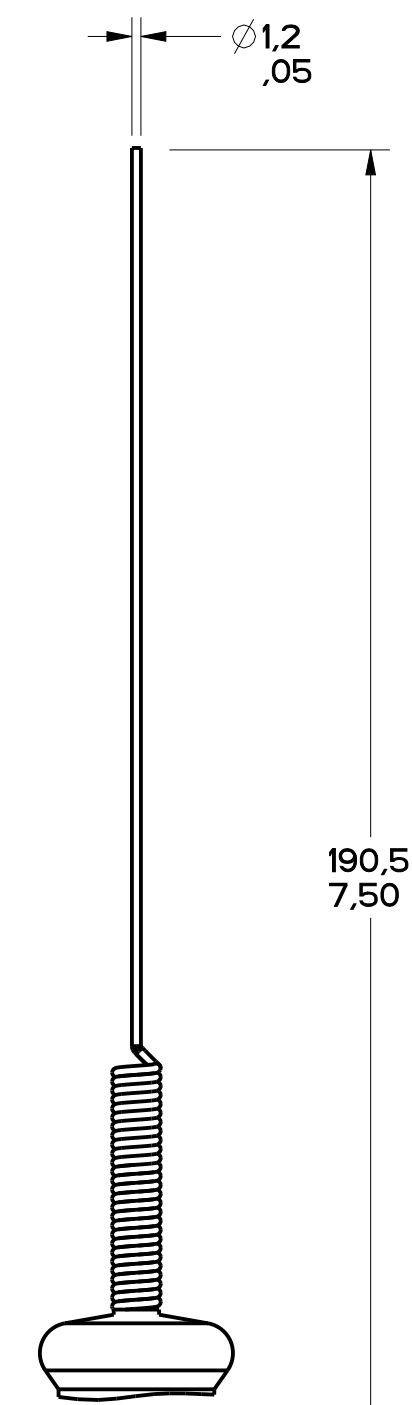


FIGURE 7D -
CAT WHISKER ACTUATOR,
STAINLESS STEEL
SPRING, OTHERWISE
SAME AS FIGURE 7

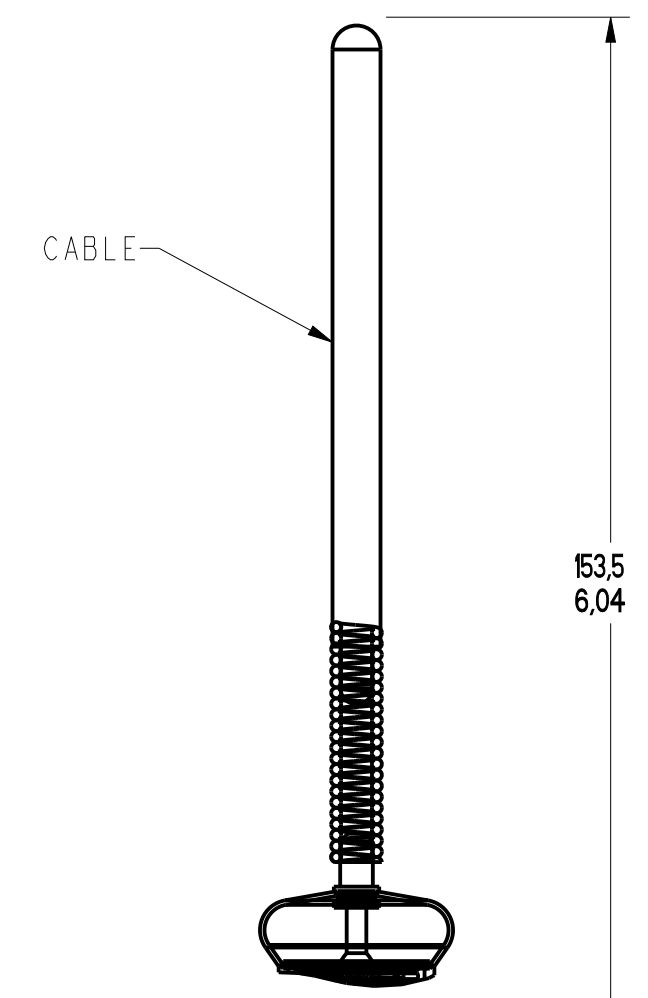


FIGURE 7E -
CABLE WOBBLE
ACTUATOR, OTHERWISE
SAME AS FIGURE 7

[illegible]

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FED. MFG. CODE 91929	CATALOG LISTING	NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES	X X, Y X, Y, Z X, Y, Z ±.2° SI METRIC DESIGN UNITS
MICRO SWITCH a Honeywell Division	SWITCH, ENCLOSED	GL SERIES CHART 1	US CUSTOMARY ☐
			WEIGHT

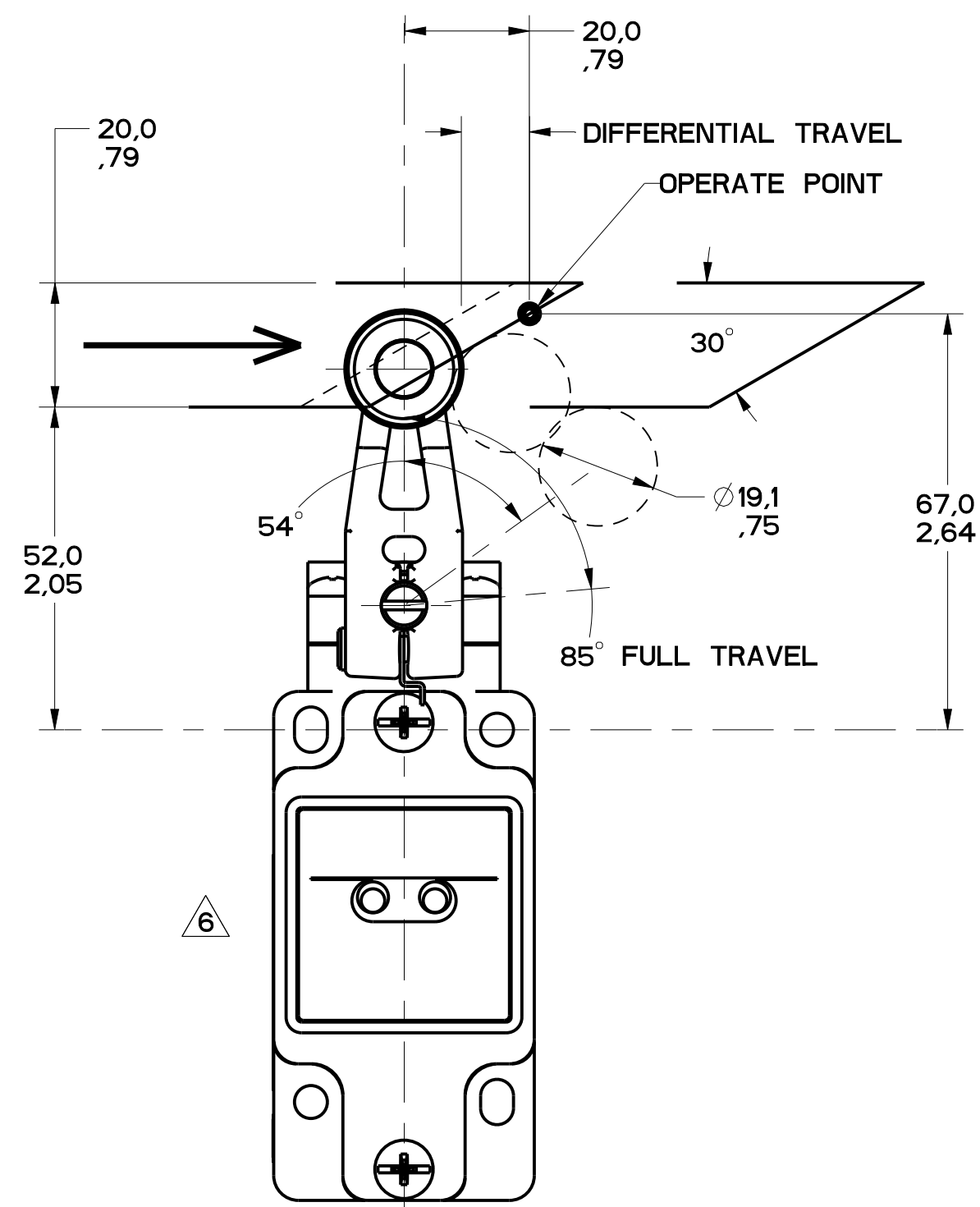


FIGURE 8

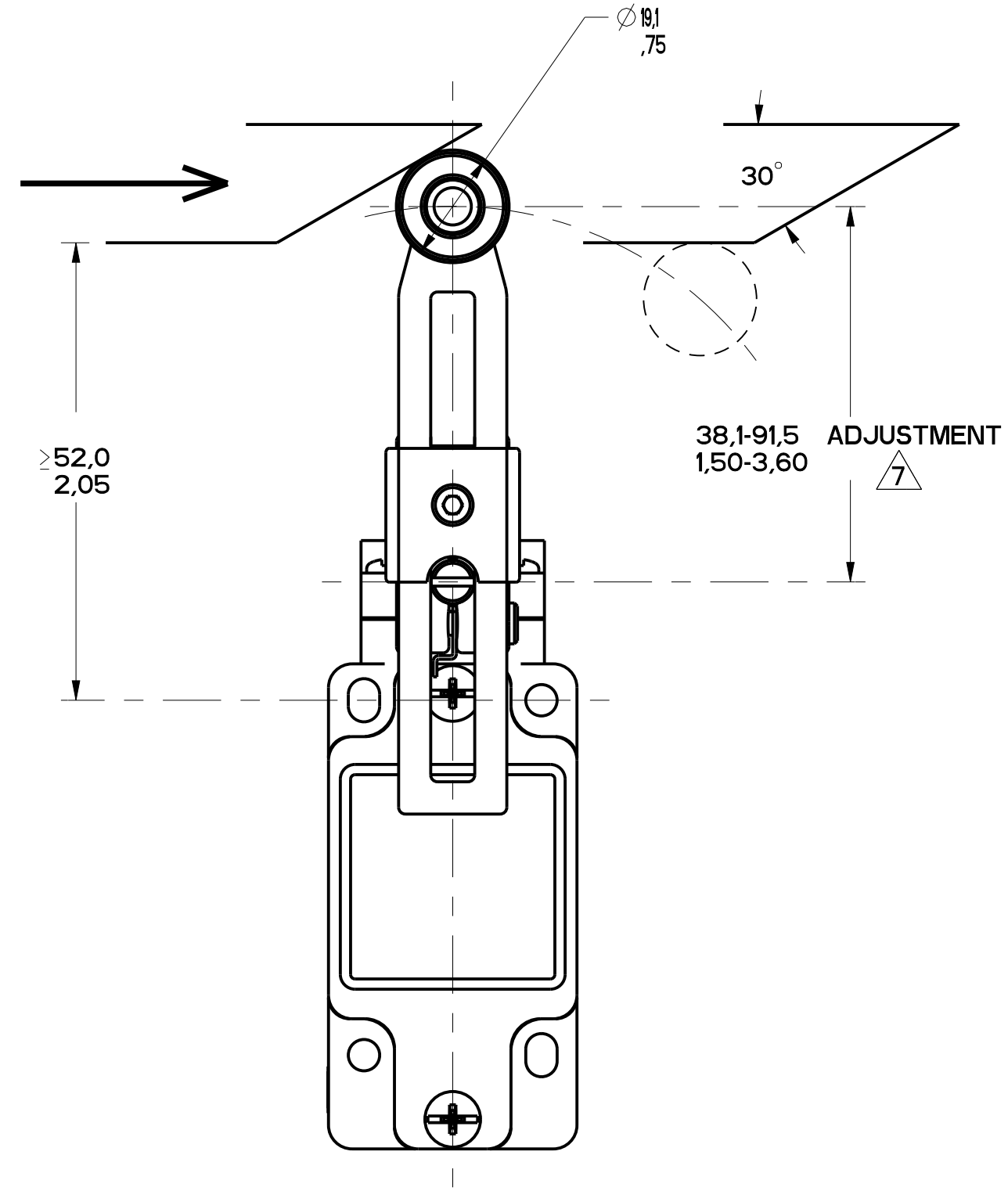


FIGURE 9

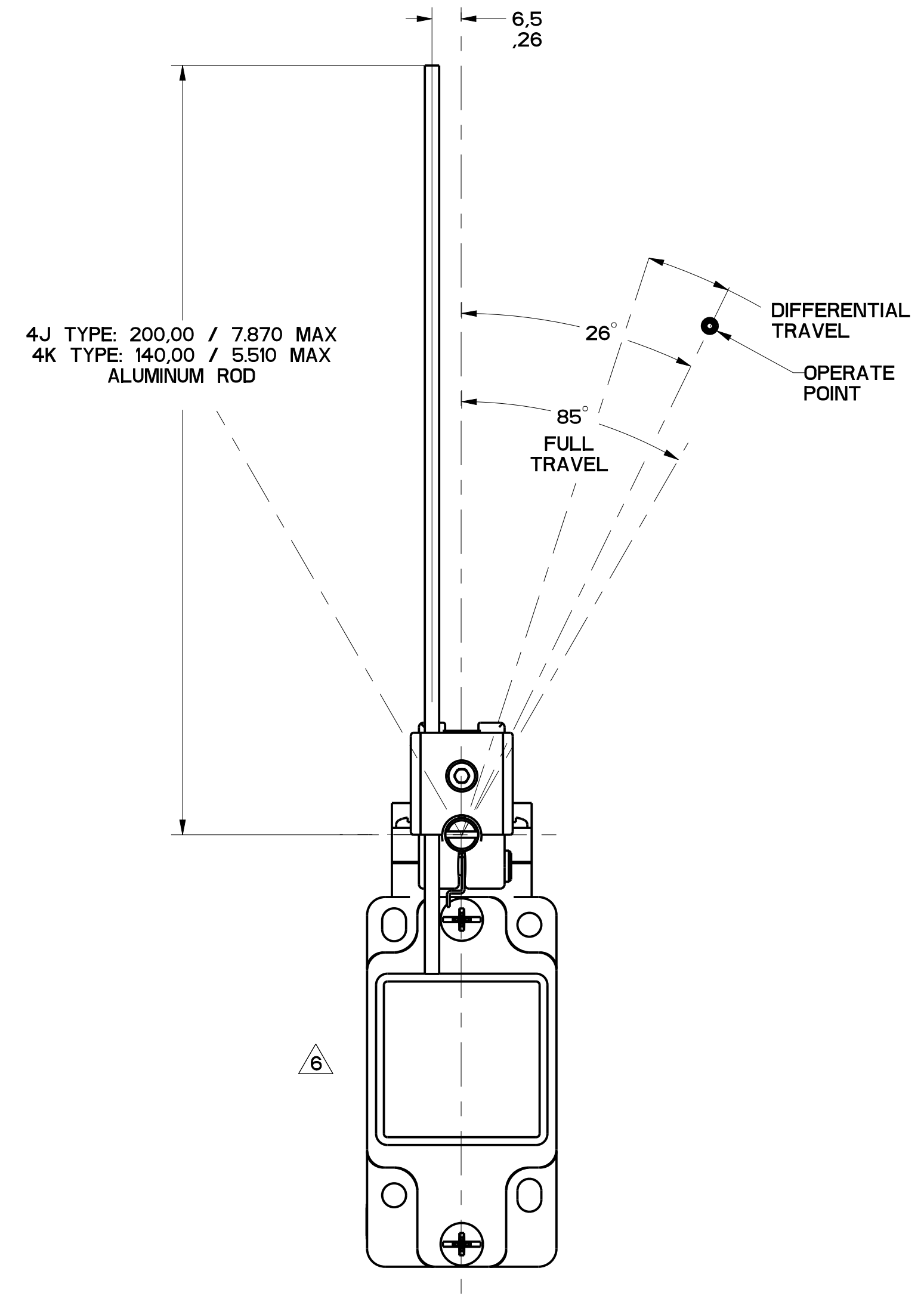


FIGURE 10

PTC/CAD	DRAWING NO.	MGL SERIES CHART 11		REPLACES
		ISSUE 16	PAGE 4 OF 13	
REVISIONS T 0000441 U 0000450 V 0000451 W 0000452 X 0000453 Y 0000454 Z 0000455 AA 0000456 AB 0000457 AC 0000458 AD 0000459 AE 0000460 AF 0000461 AG 0000462 AH 0000463 AI 0000464 AJ 0000465 AK 0000466 AL 0000467 AM 0000468 AN 0000469 AO 0000470 AP 0000471 AQ 0000472 AR 0000473 AS 0000474 AT 0000475 AU 0000476 AV 0000477 AW 0000478 AX 0000479 AY 0000480 AZ 0000481 BA 0000482 BB 0000483 BC 0000484 BD 0000485 BE 0000486 BF 0000487 BG 0000488 BH 0000489 BI 0000490 BJ 0000491 BK 0000492 BL 0000493 BM 0000494 BN 0000495 BO 0000496 BP 0000497 BQ 0000498 BR 0000499 BS 0000500 BT 0000501 BU 0000502 BV 0000503 BW 0000504 BX 0000505 BY 0000506 BZ 0000507 CA 0000508 CB 0000509 CC 0000510 CD 0000511 CE 0000512 CF 0000513 CG 0000514 CH 0000515 CI 0000516 CJ 0000517 CK 0000518 CL 0000519 CM 0000520 CN 0000521 CO 0000522 CP 0000523 CQ 0000524 CR 0000525 CS 0000526 CT 0000527 CU 0000528 CV 0000529 CW 0000530 CX 0000531 CY 0000532 CZ 0000533 DA 0000534 DB 0000535 DC 0000536 DD 0000537 DE 0000538 DF 0000539 DG 0000540 DH 0000541 DI 0000542 DJ 0000543 DK 0000544 DL 0000545 DM 0000546 DN 0000547 DO 0000548 DP 0000549 DQ 0000550 DR 0000551 DS 0000552 DT 0000553 DU 0000554 DV 0000555 DW 0000556 DX 0000557 DY 0000558 DZ 0000559 EA 0000560 EB 0000561 EC 0000562 ED 0000563 EE 0000564 EF 0000565 EG 0000566 EH 0000567 EI 0000568 EJ 0000569 EK 0000570 EL 0000571 EM 0000572 EN 0000573 EO 0000574 EP 0000575 EQ 0000576 ER 0000577 ES 0000578 ET 0000579 EU 0000580 EV 0000581 EW 0000582 EX 0000583 EY 0000584 EZ 0000585 FA 0000586 FB 0000587 FC 0000588 FD 0000589 FE 0000590 FF 0000591 FG 0000592 FH 0000593 FI 0000594 FJ 0000595 FK 0000596 FL 0000597 FM 0000598 FN 0000599 FO 0000600 FP 0000601 FQ 0000602 FR 0000603 FS 0000604 FT 0000605 FU 0000606 FV 0000607 FW 0000608 FX 0000609 FY 0000610 FZ 0000611 GA 0000612 GB 0000613 GC 0000614 GD 0000615 GE 0000616 GF 0000617 GG 0000618 GH 0000619 GI 0000620 GJ 0000621 GK 0000622 GL 0000623 GM 0000624 GN 0000625 GO 0000626 GP 0000627 GQ 0000628 GR 0000629 GS 0000630 GT 0000631 GU 0000632 GV 0000633 GW 0000634 GX 0000635 GY 0000636 GZ 0000637 HA 0000638 HB 0000639 HC 0000640 HD 0000641 HE 0000642 HF 0000643 HG 0000644 HH 0000645 HI 0000646 HJ 0000647 HK 0000648 HL 0000649 HM 0000650 HN 0000651 HO 0000652 HP 0000653 HQ 0000654 HR 0000655 HS 0000656 HT 0000657 HU 0000658 HV 0000659 HW 0000660 HX 0000661 HY 0000662 HZ 0000663 IA 0000664 IB 0000665 IC 0000666 ID 0000667 IE 0000668 IF 0000669 IG 0000670 IH 0000671 II 0000672 IJ 0000673 IK 0000674 IL 0000675 IM 0000676 IN 0000677 IO 0000678 IP 0000679 IQ 0000680 IR 0000681 IS 0000682 IT 0000683 IU 0000684 IV 0000685 IW 0000686 IX 0000687 IY 0000688 IZ 0000689 JA 0000690 JB 0000691 JC 0000692 JD 0000693 JE 0000694 JF 0000695 JG 0000696 JH 0000697 JI 0000698 JJ 0000699 JO 0000700 JP 0000701 JQ 0000702 JR 0000703 JS 0000704 JT 0000705 JU 0000706 JV 0000707 JW 0000708 JX 0000709 JY 0000710 JZ 0000711 KA 0000712 KB 0000713 KC 0000714 KD 0000715 KE 0000716 KF 0000717 KG 0000718 KH 0000719 KI 0000720 KJ 0000721 KK 0000722 KL 0000723 KM 0000724 KN 0000725 KO 0000726 KP 0000727 KQ 0000728 KR 0000729 KS 0000730 KT 0000731 KU 0000732 KV 0000733 KW 0000734 KX 0000735 KY 0000736 KZ 0000737 LA 0000738 LB 0000739 LC 0000740 LD 0000741 LE 0000742 LF 0000743 LG 0000744 LH 0000745 LI 0000746 LJ 0000747 LK 0000748 LL 0000749 LM 0000750 LN 0000751 LO 000075				

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FED. MFG. CODE 91929		NO PLACES 3 ONE PLACE X, X TWO PLACES X, X THREE PLACES ANGLES $\pm .004$ $\pm .01$ DIA $\pm .015$ DIA $\pm .006$ $\pm .002$	
MICRO SWITCH a Honeywell Division		CATALOG LISTING GL SERIES CHART 1	
SWITCH, ENCLOSED		SI METRIC ☒ US CUSTOMARY ☐ DESIGN UNITS WEIGHT	

REVISIONS	
1	0000040
2	000003
3	0002986
4	0002984
5	0023759
6	0026086
7	0037216
8	0043629
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100	0043629

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

SIDE ROTARY HEAD, CAM ACTUATION PER EN50041, FIGURES 8 AND 9							
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, □ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 DIMENSIONS IN mm	MAXIMUM OPERATING FORCE N LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL M/S IN/S	MIN OPERATE VEL mm/S IN/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01A GL**07A	SNAP - ACTION CONTACTS SINGLE POLE 	 12 DIFFERENTIAL TRAVEL	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 	 32	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 	 20	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**05A GL**35A	SLOW ACTING 	 13-14	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**06A GL**36A	SLOW ACTING 	 11-12	9.7 2.2	11.4 2.6	.85 33.5	8.5 .33	250
GL**20A GL**22A GL**24A GL**32A	SNAP ACTION CONTACTS DOUBLE POLE 	 12 DIFFERENTIAL TRAVEL	9.7 2.2	11.8 2.7	.85 33.5	8.5 .33	250
GL**21A GL**25A GL**28A GL**31A	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 	 8.5 DIFFERENTIAL TRAVEL	9.7 2.2	N/A	.85 33.5	8.5 .33	250
GL**26J GL**27J GL**29J GL**30J	CCW CW SNAP ACTION CONTACTS DOUBLE POLE CENTER NEUTRAL 	 8 DIFFERENTIAL TRAVEL	9.7 2.2	N/A	.85 33.5	8.5 .33	250

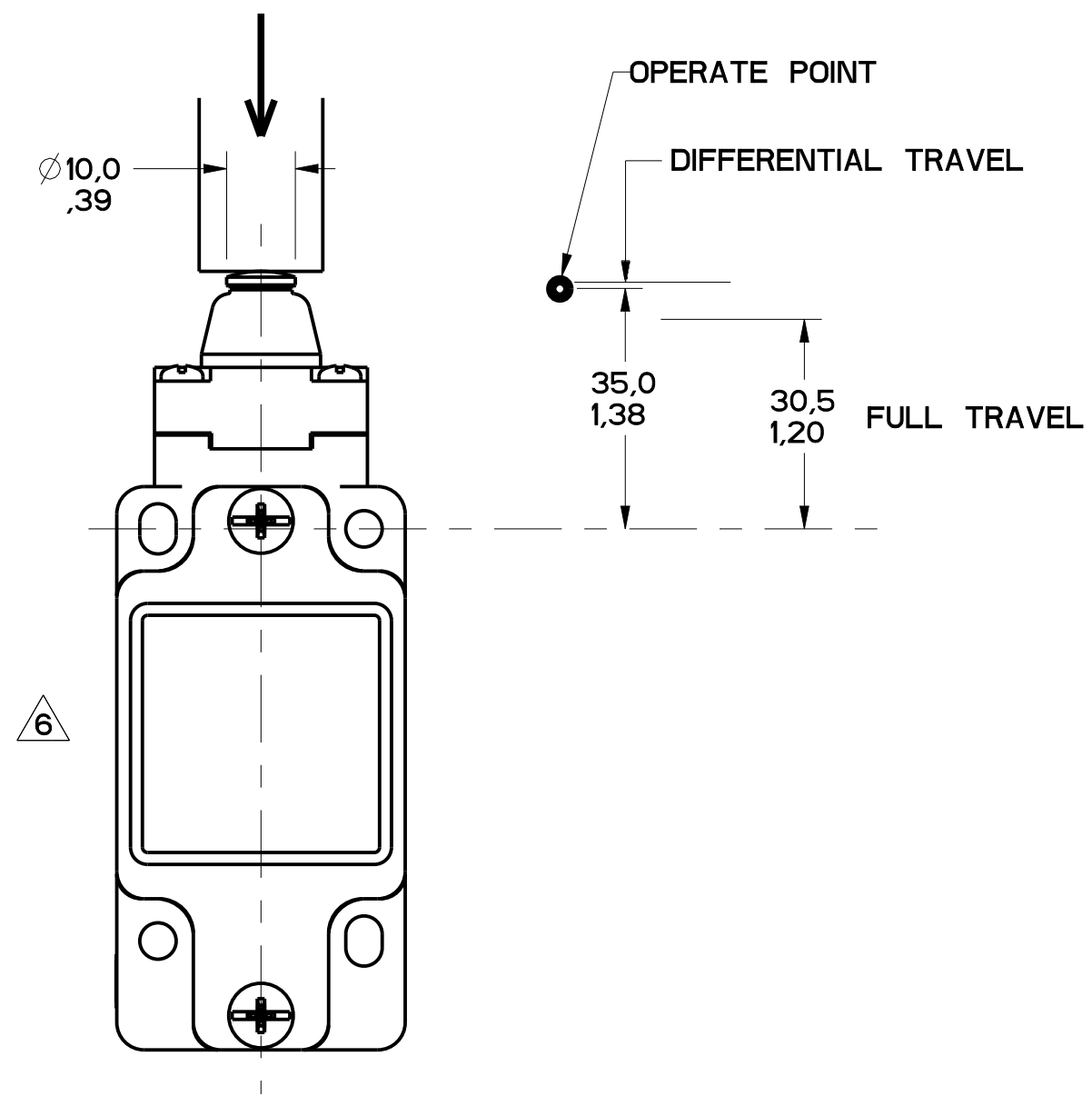


FIGURE 11

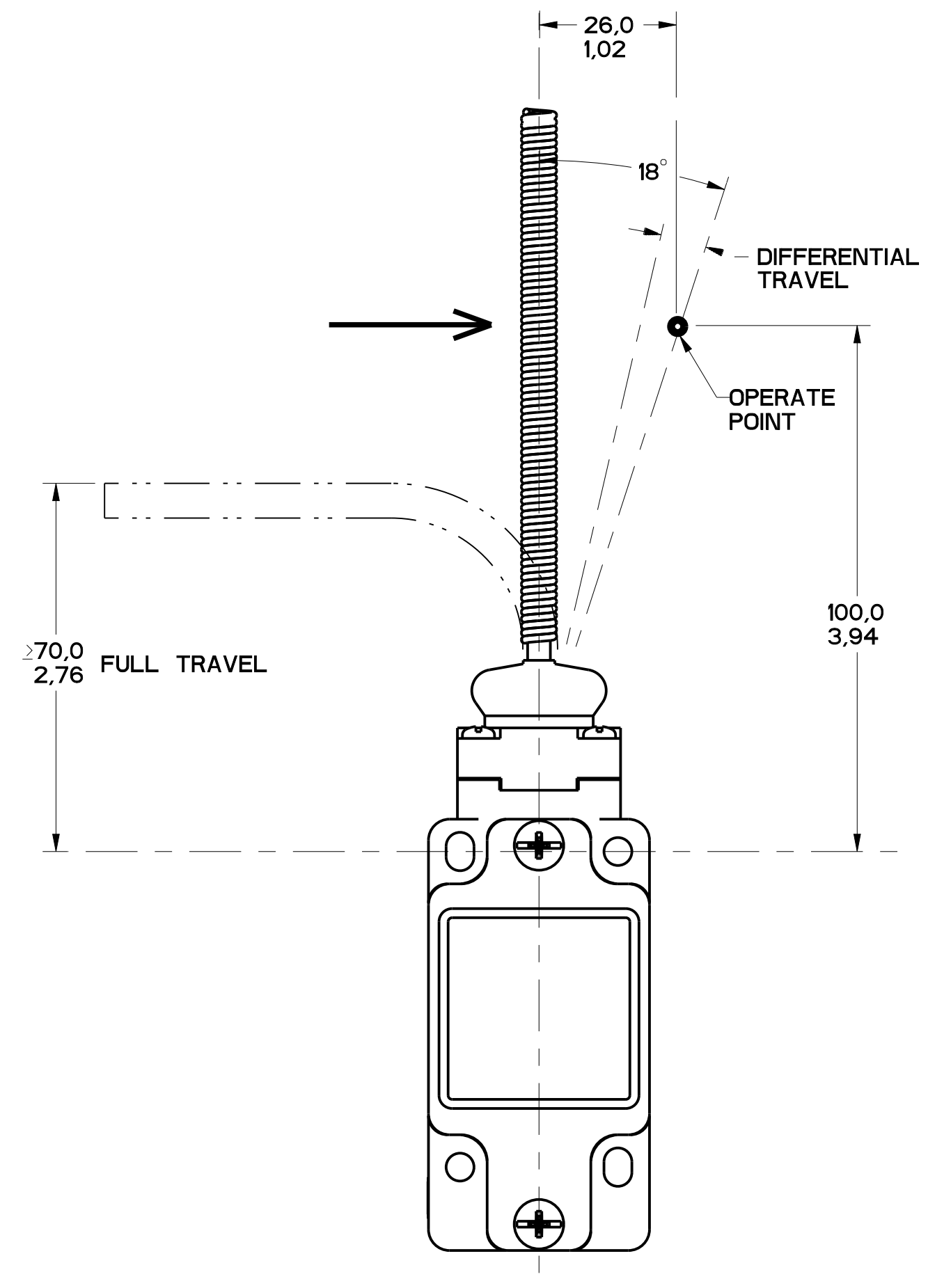


FIGURE 12

[illegible]

REVISIONS		050CT10	CMH	CHECK	26AUG93	GLH
F	0000401					
GLH 2 JUN 93						
G	0002986					
RS 20 JAN 94						
H	0033759					
RKP 07AUG96						
J	0037216					
BS 08FEB98						
K	0043629					
SS 12SEP98						
L	0048605					
YKS 09FEB99						
M	0070059					
DN 050CT10						
N	0094570					
SBH 12OCT12						

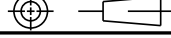
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MICRO SWITCH
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SWITCH, ENCLOSED

GL SERIES CHART 1

THIRD ANGLE PROJECTION			
			
1:1			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS, CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED, TOLERANCES ARE:			
FRACTION	TOL	FRA	TOL
NO PLACES	X	1 / 64	0.001
ONE PLACE	X .1	0.01	0.001 / 0.015
TWO PLACES	X .01	0.01	0.001 / 0.015
THREE PLACES	X .001	0.001 / 0.006	0.001 / 0.005
±			
SI METRIC		US CUSTOMARY	
DESIGN UNITS 			
WEIGHT			

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 $\frac{N}{LB}$	MAXIMUM DISCONNECT FORCE $\frac{N}{LB}$	MAX OPERATE VEL $\frac{M}{S}$ $\frac{IN}{S}$	MIN OPERATE VEL $\frac{MM}{S}$ $\frac{IN}{S}$	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	$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**03B GL**33B	SLOW ACTING BREAK BEFORE MAKE 	 37.5 35** 30.5 21-22 13-14 34	$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**04B GL**34B	SLOW ACTING MAKE BEFORE BREAK 	 37.5 34** 30.5 21-22 13-14 35	$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**05B GL**35B	SLOW ACTING 	 37.5 34 30.5 13-14 23-24	$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**06B GL**36B	SLOW ACTING 	 37.5 35** 30.5 11-12 21-22 34	$\frac{16}{3.6}$	$\frac{27}{6.0}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	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	$\frac{16}{3.6}$	$\frac{37}{8.2}$	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	250
GL**21B GL**25B GL**28B GL**31B	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 	 37.5 35 33.8 30.5 11-12 13-14 21-22 23-24 0.8 DIFFERENTIAL TRAVEL	$\frac{16}{3.6}$	N/A	$\frac{0.1}{3.9}$	$\frac{1.0}{.04}$	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 $\frac{N-m}{LB/IN}$	MAXIMUM DISCONNECT TORQUE $\frac{N-m}{LB/IN}$	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**01E GL**07E	SNAP - ACTION CONTACTS SINGLE POLE 	 18° 30.5 21-22 13-14 8° DIFFERENTIAL TRAVEL	$\frac{0.2}{1.8}$	N/A	360	8	100
GL**03E GL**33E	SLOW ACTING BREAK BEFORE MAKE 	 0° 18° 25° 35° 30.5 21-22 13-14	$\frac{0.2}{1.8}$	N/A	360	8	100
GL**04E GL**34E	SLOW ACTING MAKE BEFORE BREAK 	 0° 18° 25° 35° 30.5 21-22 13-14	$\frac{0.2}{1.8}$	N/A	360	8	100
GL**05E GL**35E	SLOW ACTING 	 0° 25° 35° 30.5 13-14 23-24	$\frac{0.2}{1.8}$	N/A	360	8	100
GL**06E GL**36E	SLOW ACTING 	 0° 18° 35° 30.5 11-12 21-22	$\frac{0.2}{1.8}$	N/A	360	8	100
GL**20E GL**22E GL**24E GL**32E	SNAP ACTION CONTACTS DOUBLE POLE 	 18° 30.5 11-12, 21-22 13-14, 23-24 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 $\frac{M}{S}$ $\frac{IN}{S}$	MIN OPERATE VEL $\frac{MM}{S}$ $\frac{IN}{S}$	MAX OPERATE FREQUENCY OPS/MIN
GL**01E GL**07E	SNAP - ACTION CONTACTS SINGLE POLE 	 26 30.5 21-22 13-14 12 DIFFERENTIAL TRAVEL	$\frac{2.5}{0.6}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**03E GL**33E	SLOW ACTING BREAK BEFORE MAKE 	 26.5 38.1 30.5 21-22 13-14	$\frac{2.5}{0.6}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**04E GL**34E	SLOW ACTING MAKE BEFORE BREAK 	 26.5 38.1 30.5 21-22 13-14	$\frac{2.5}{0.6}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**05E GL**35E	SLOW ACTING 	 38.1 30.5 13-14 23-24	$\frac{2.5}{0.6}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**06E GL**36E	SLOW ACTING 	 26.5 30.5 11-12 21-22	$\frac{2.5}{0.6}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**20E GL**22E GL**24E GL**32E	SNAP ACTION CONTACTS DOUBLE POLE 	 26 30.5 11-12, 21-22 13-14, 23-24 12 DIFFERENTIAL TRAVEL	$\frac{2.5}{0.6}$	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 TOL DIM TOL
NO PLACES ONE PLACES TWO PLACES THREE PLACES
X .04 X.X 0.01/0.05 0.15/1.006 1.XXX 0.81/0.5 0.38/0.05 0.13/0.05
X.XX 0.15/1.006 1.XXX 0.81/0.5 0.38/0.05 0.13/0.05

DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY

WEIGHT

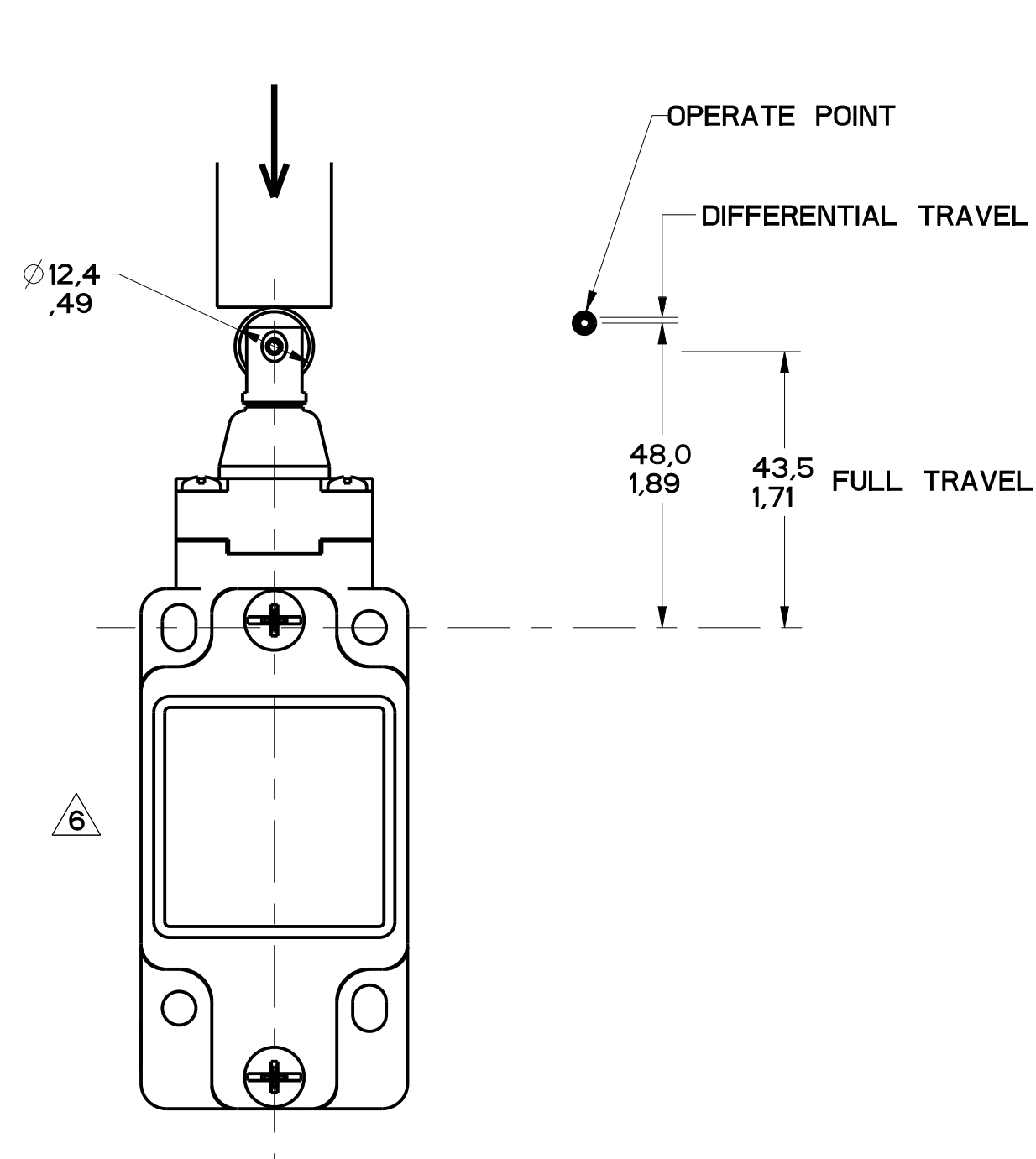


FIGURE 13A

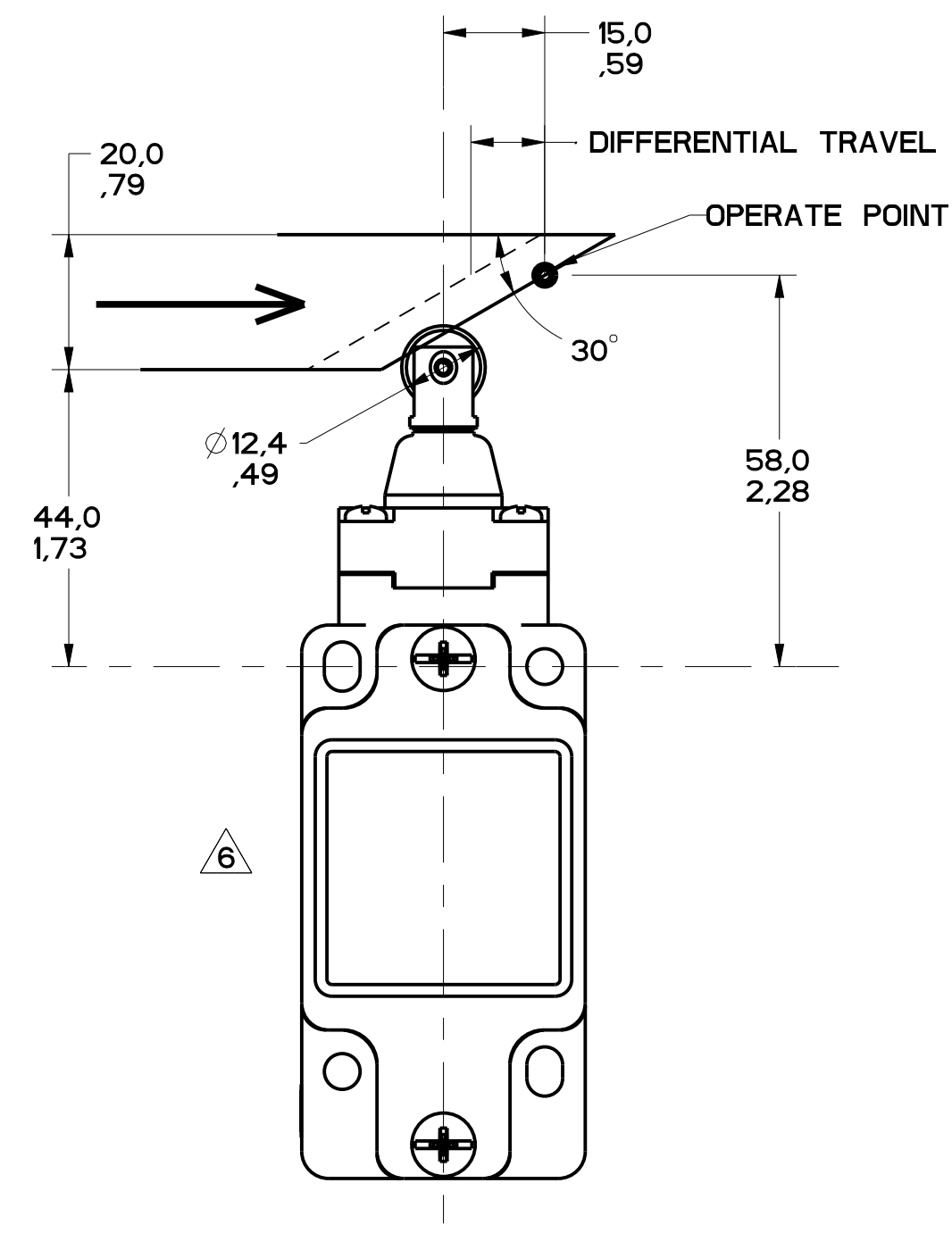


FIGURE 13B

MGL SERIES CHART 1			
DRAWING NUMBER	PAGE	8 OF 13	REPLACES
16			
ISSUE	CHECK	CMH	12OCT12
REVISIONS			
A	0005047		
B	01		
C	0007986		
D	0042629		
E	0023759		
F	0741606		
G	0037216		
H	0042629		
I	0042629		
J	0042629		
K	0042629		
L	0042629		
M	0042629		
N	0042629		
O	0042629		
P	0042629		
Q	0042629		
R	0042629		
S	0042629		
T	0042629		
U	0042629		
V	0042629		
W	0042629		
X	0042629		
Y	0042629		
Z	0042629		

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CATALOG LISTING			
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SWITCH, ENCLOSED			
GL SERIES CHART 1			
DESIGN UNITS			
WEIGHT			

THIRD ANGLE PROJECTION			
SCALE 1:1			
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE:			
NO PLACES	INCH	TOL.	MM
ONE PLACE	INCH	±.04	±.04
TWO PLACES	INCH	±.01	±.01
THREE PLACES	INCH	±.005	±.005
ANGLES	DEGREES	±.5	±.5
DESIGN UNITS		SI METRIC	US CUSTOMARY
		☒	☐
WEIGHT			

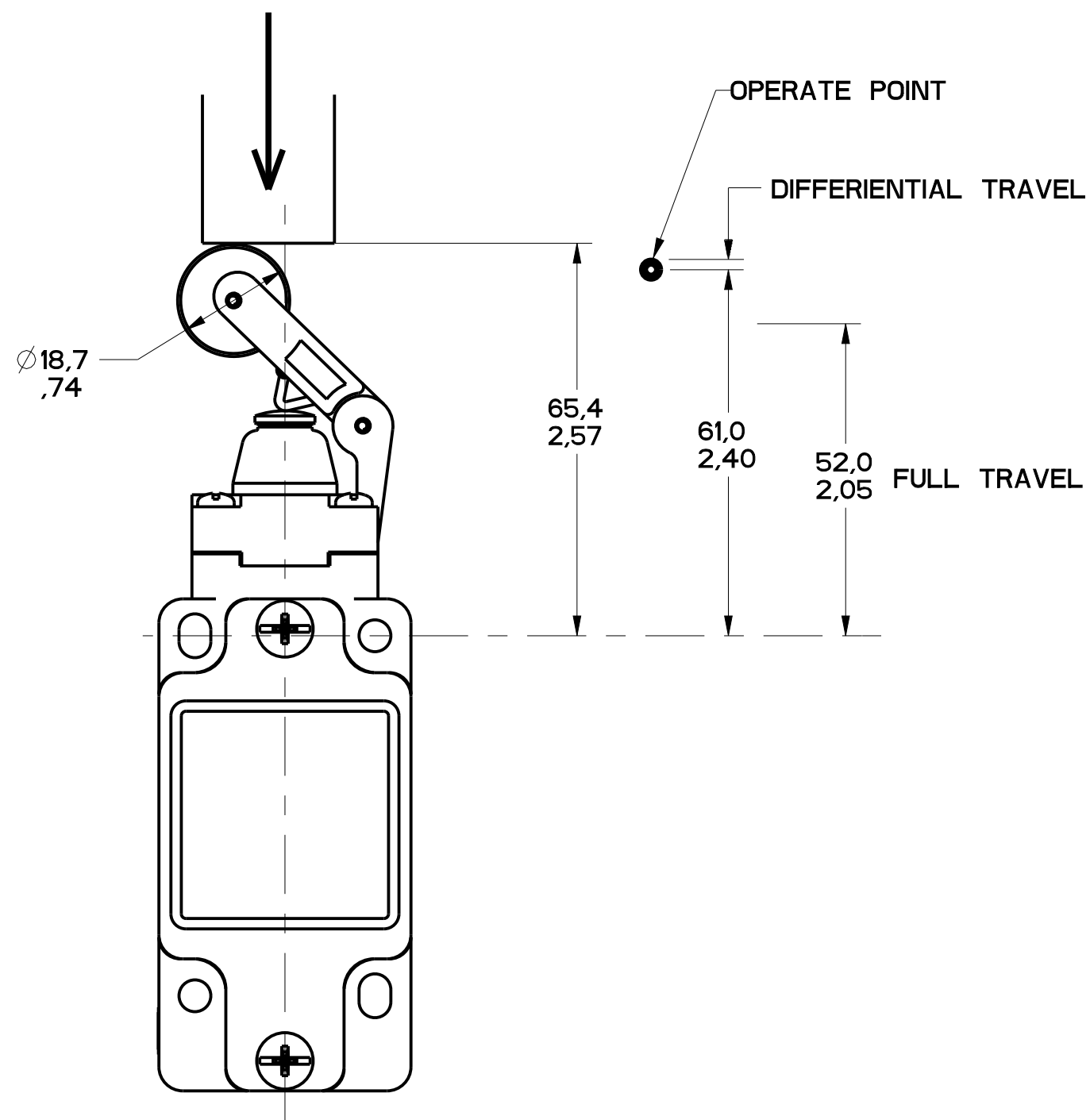


FIGURE 14A

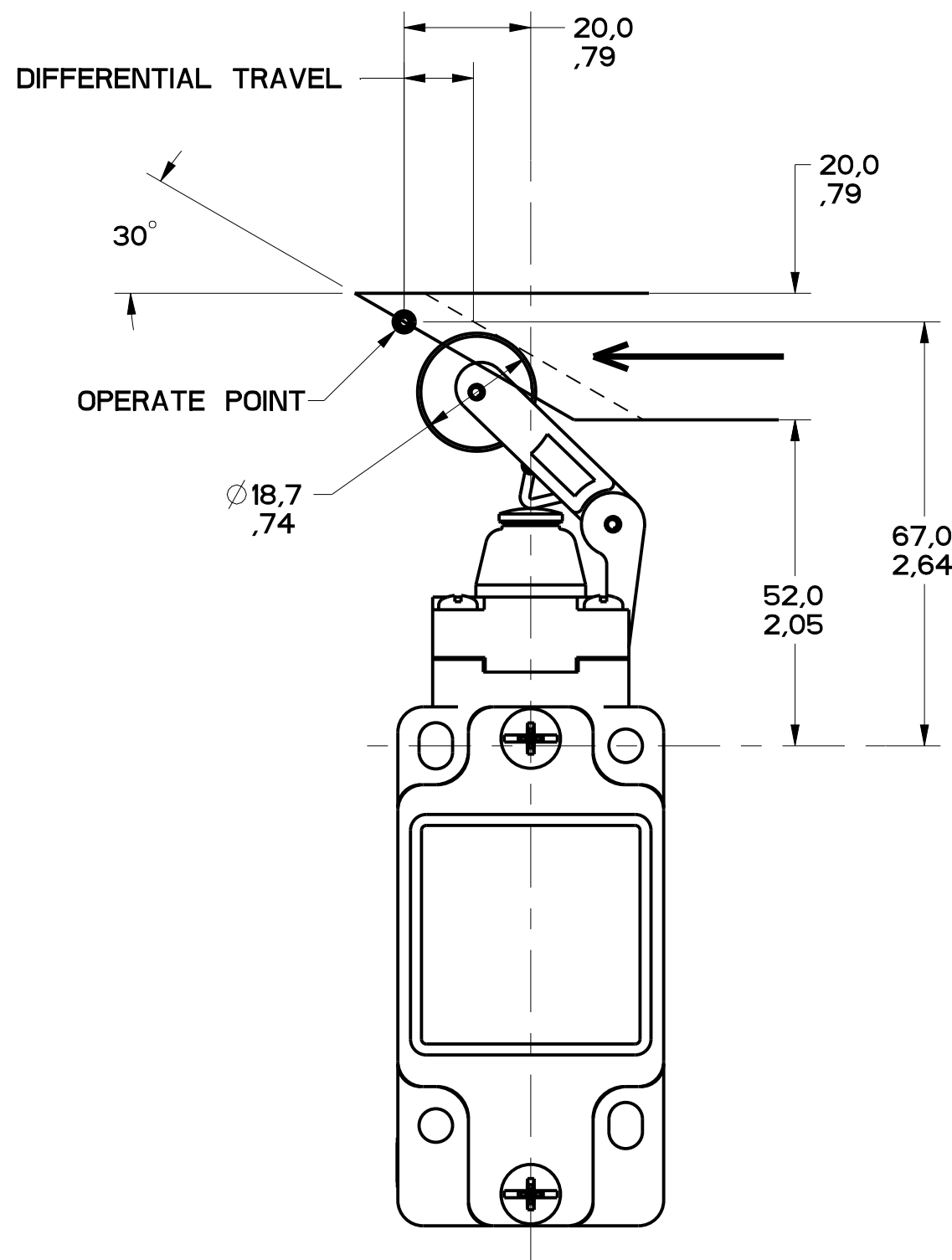


FIGURE 14B

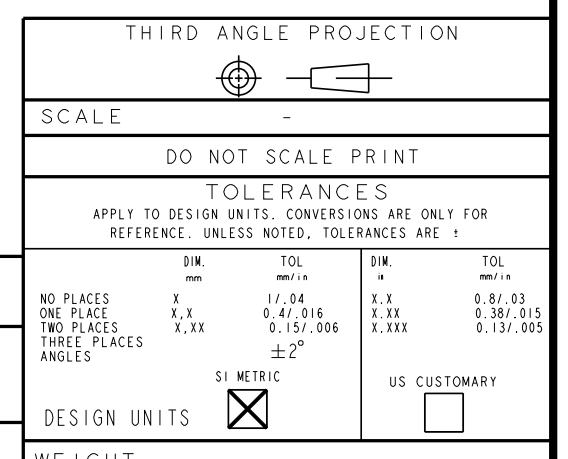
DRAWING NUMBER		PAGE		RELEASE NO.		REPLACES	
16		10 OF 13					
ISSUE		CMH		CMH		CMH	
REVISED		05 OCT 10		05 OCT 10		05 OCT 10	
A		0000040		0000040		0000040	
B		01 JUN 03		01 JUN 03		01 JUN 03	
C		0002886		0002886		0002886	
D		0004884		0004884		0004884	
E		0023759		0023759		0023759	
F		0000006		0000006		0000006	
G		0037216		0037216		0037216	
H		0001888		0001888		0001888	
I		0043629		0043629		0043629	
J		0000000		0000000		0000000	
K		0048605		0048605		0048605	
L		0000000		0000000		0000000	
M		0000000		0000000		0000000	
N		0000000		0000000		0000000	
O		0000000		0000000		0000000	
P		0000000		0000000		0000000	
Q		0000000		0000000		0000000	
R		0000000		0000000		0000000	
S		0000000		0000000		0000000	
T		0000000		0000000		0000000	
U		0000000		0000000		0000000	
V		0000000		0000000		0000000	
W		0000000		0000000		0000000	
X		0000000		0000000		0000000	
Y		0000000		0000000		0000000	
Z		0000000		0000000		0000000	

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MICRO SWITCH a Honeywell Division		GL SERIES CHART 1	
DESIGN UNITS		WEIGHT	
SI METRIC		US CUSTOMARY	
NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES		TOL. DIM. FRACTIONS DECIMALS ANGLES	
X X.X X.XX ±2°		1/16 0.0156 0.151/0.06 ±2°	
X X.X X.XX ±2°		1/16 0.0156 0.151/0.06 ±2°	

THIRD ANGLE PROJECTION	
SCALE 1:1	
DO NOT SCALE PRINT	
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1	
TOL. DIM. FRACTIONS DECIMALS ANGLES	
1/16 0.0156 0.151/0.06 ±2°	
1/16 0.0156 0.151/0.06 ±2°	

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 		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 		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 		5.5 1.2	9.6 2.2	0.29 11.4	2.9 .11	250
GL**05D GL**35D	SLOW ACTING 		5.5 1.2	7.0 1.6	0.29 11.4	2.9 .11	250
GL**06D GL**36D	SLOW ACTING 		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 		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 SEQUENTIAL		5.5 1.2	N/A	0.29 11.4	2.9 .11	250



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MICRO SWITCH a Honeywell Division		GL SERIES CHART

GL SERIES CHART 1

ANSI Y14.5M-1982 APPLIES

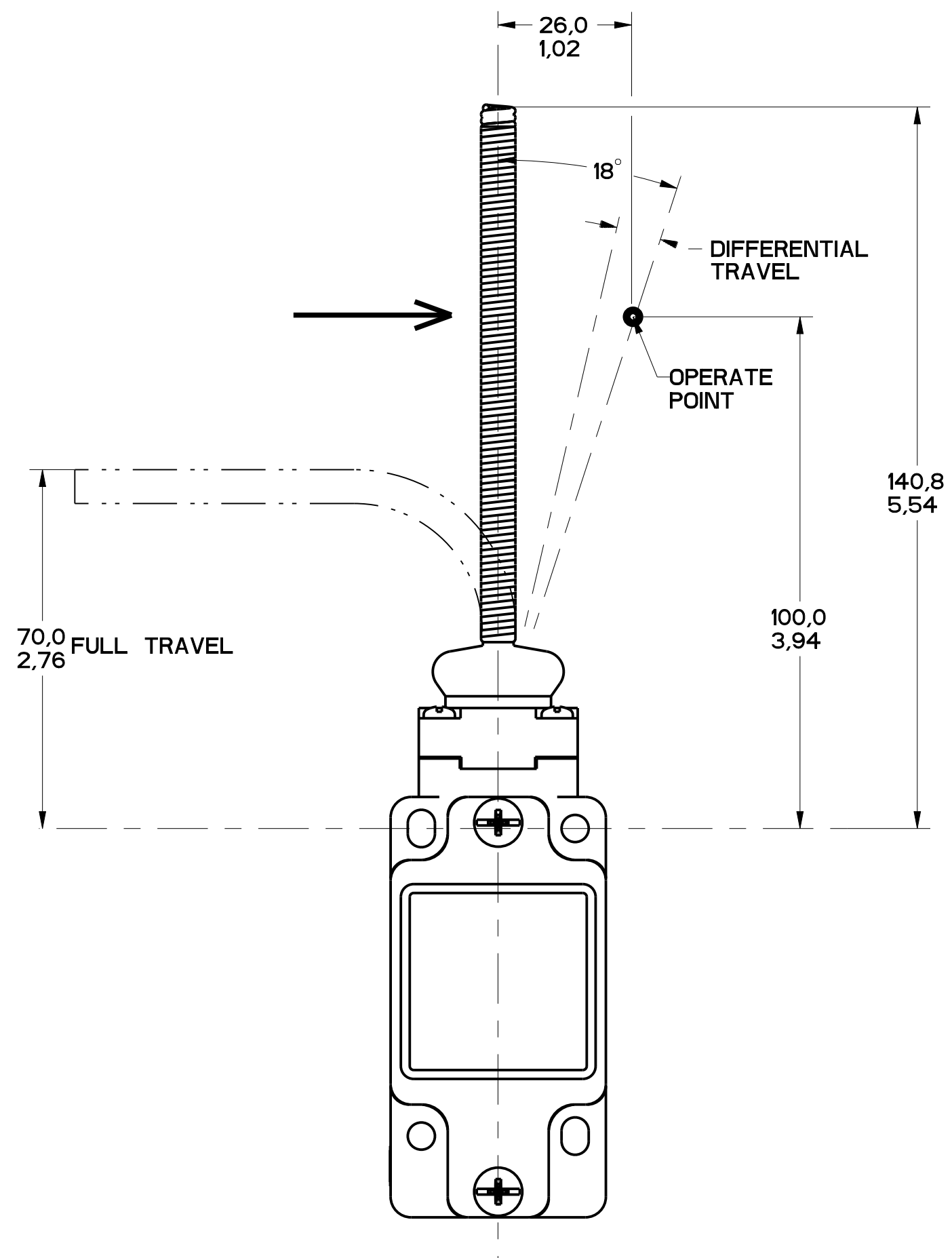


FIGURE 15

[illegible]

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FED. MFG. CODE 91929		CATALOG LISTING			
MICRO SWITCH a Honeywell Division		SWITCH, ENCLOSED			
		GL SERIES CHART 1			
		NO PLACES 3 ONE PLACE 3 X X TWO PLACES 3 XX THREE PLACES ANGLES $\pm .0005$ $\pm .001$ $\pm .0015$ $\pm .002$		DIM INches TOL mils DIM mm TOL microns SI METRIC DESIGN UNITS ☒ US CUSTOMARY ☐ WEIGHT	

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 $\frac{N \cdot m}{LB \cdot IN}$	MAXIMUM DISCONNECT TORQUE $\frac{N \cdot m}{LB \cdot IN}$	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**01K GL**07K	SNAP - ACTION CONTACTS SINGLE POLE 	 18° 8° DIFFERENTIAL TRAVEL	$\frac{0.1}{.9}$	N/A	360	8	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 	 18° 25	$\frac{0.1}{.9}$	N/A	360	8	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 	 25° 18°	$\frac{0.1}{.9}$	N/A	360	8	100
GL**05K GL**35K	SLOW ACTING 	 25°	$\frac{0.1}{.9}$	N/A	360	8	100
GL**06K GL**36K	SLOW ACTING 	 18°	$\frac{0.1}{.9}$	N/A	360	8	100
GL**20K GL**22K GL**24K GL**32K	SNAP ACTION CONTACTS DOUBLE POLE 	 18° 8° DIFFERENTIAL TRAVEL	$\frac{0.1}{.9}$	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 $\frac{N}{LB}$	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**01K GL**07K	SNAP - ACTION CONTACTS SINGLE POLE 	 26 12 DIFFERENTIAL TRAVEL	$\frac{1.3}{.3}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 	 26.5 38.1	$\frac{1.3}{0.3}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 	 26.5 38.1	$\frac{1.3}{0.3}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**05K GL**35K	SLOW ACTING 	 38.1	$\frac{1.3}{0.3}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**06K GL**36K	SLOW ACTING 	 26.5	$\frac{1.3}{0.3}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100
GL**20K GL**22K GL**24K GL**32K	SNAP ACTION CONTACTS DOUBLE POLE 	 26 12 DIFFERENTIAL TRAVEL	$\frac{1.3}{0.3}$	N/A	$\frac{.5}{19.7}$	$\frac{11}{.43}$	100

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