SIDE ROTARY

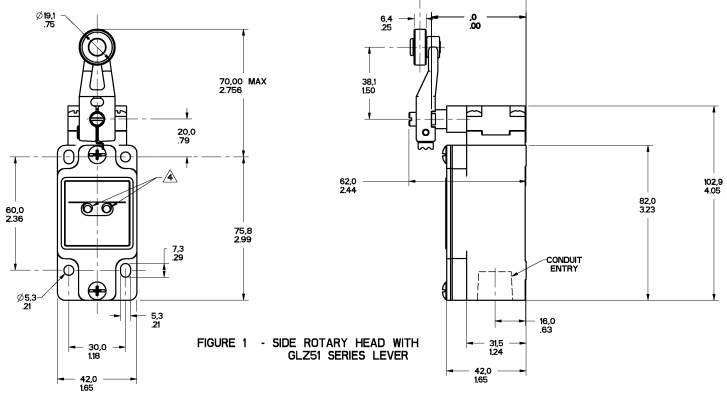

FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

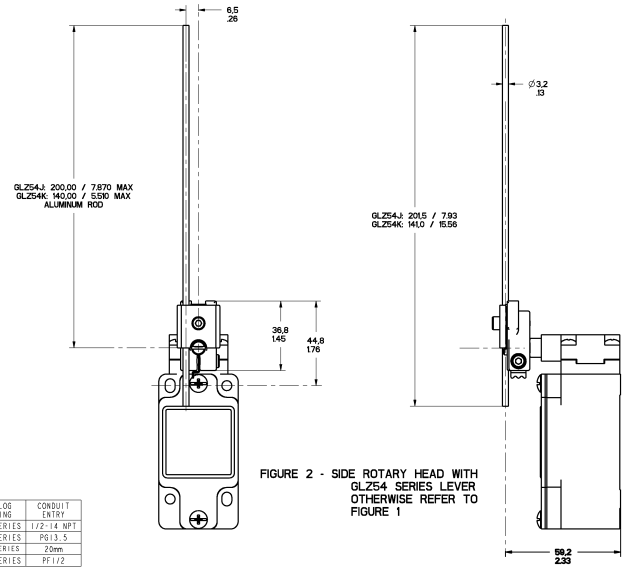

FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

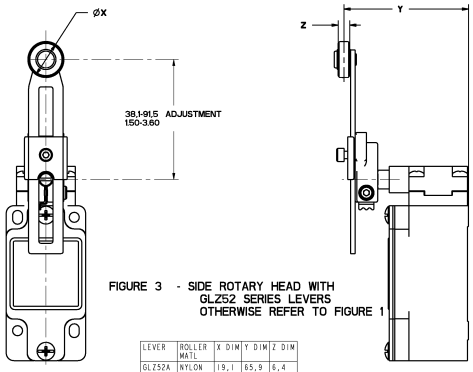

FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

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	50,9 2.0	71,5 2.81	12,7 .5

FIGURE	CATALOG LISTING	CONDUIT ENTRY
IA	GL★A SERIES	1/2-14 NPT
IB	GL★B SERIES	PG13.5
IC	GL★C SERIES	20mm
ID	GL★D SERIES	PF1/2

ELECTRICAL RATING 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
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

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★★★	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★	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★★★★E7D	1	7B	12
GL★★★★K8A	1	7C	15
GL★★★★K8B	1	7D	15
GL★★★★K8C	1	7	15

THIRD ANGLE PROJECTION
SCALE FULL
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DECIMAL DIMS ONLY. CONDITIONING AND ANGULAR TOLERANCES ARE AS NOTED.

INCH	TOL. ±	mm	TOL. ±
.X	.1	.X	2,5
.XX	.03	.XX	0,76
.XXX	.010	.XXX	0,25

DESIGN UNITS ☒ MM ☐ IN
WEIGHT

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SWITCH, ENCLOSED

CATALOG LISTING GL SERIES CHART 1

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SAVE AS GLSWG1B5

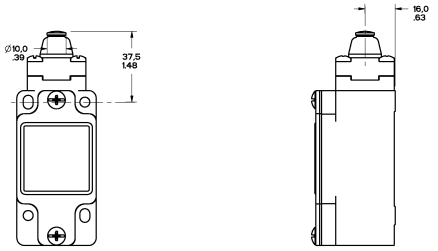

FIGURE 4 - TOP PIN PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

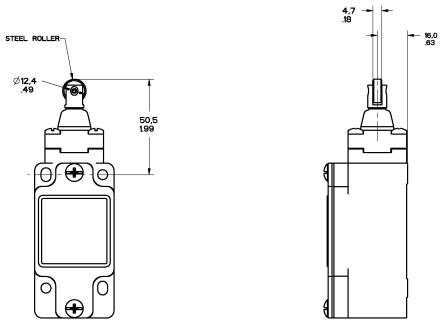

FIGURE 5 - TOP ROLLER PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

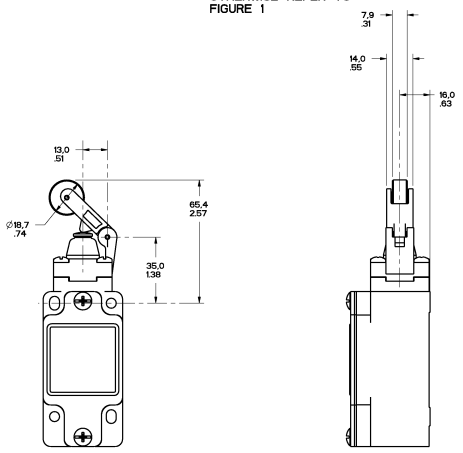

FIGURE 6 - TOP LEVER HEAD, OTHERWISE REFER TO FIGURE 1

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TED. MFR. CODE 91929		CATALOG LISTING	
MICRO SWITCH a Honeywell Division	SWITCH, ENCLOSED	GL SERIES CHART 1	

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DECIMALS UNLESS OTHERWISE SPECIFIED. TOLERANCES ARE ONLY FOR REFERENCE WHEN DIMENSIONS ARE IN

IN	TOL. mm	IN	TOL. IN
.X ±	.X ± 0,5	.XX ±	.XX ± 0,25
.XX ±	.XX ± 0,25	.XXX ±	.XXX ± 0,127
ANGLES ±	2°		

DESIGN UNITS [X] METRIC [ ] IS CUSTOMARY

WEIGHT

PTC/CAD
M GL SERIES CHART 1 2 OF 6
DRAWING NO. PR-20182
ISSUE 16
RELEASED 11 JUN 1993

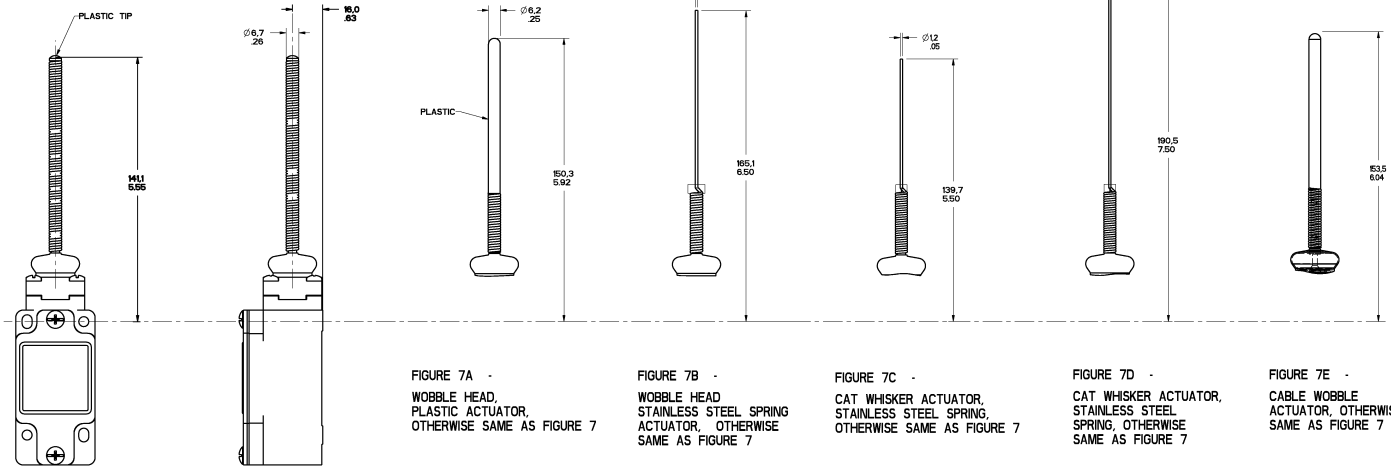

FIGURE 7 - WOBBLE HEAD, COIL ACTUATOR, OTHERWISE REFER TO FIGURE 1

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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a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE FULL
DO NOT SCALE PRINT
TOLERANCES
DESIGN UNITS
WEIGHT

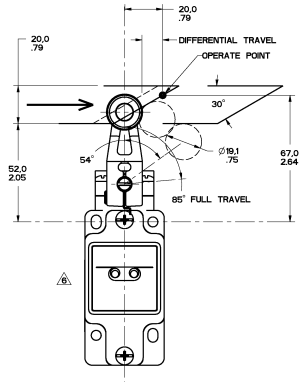

FIGURE 8

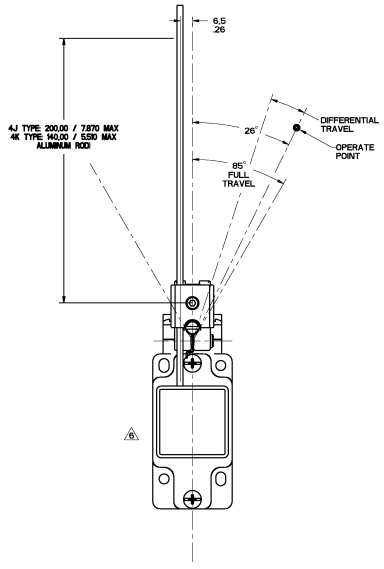

FIGURE 10

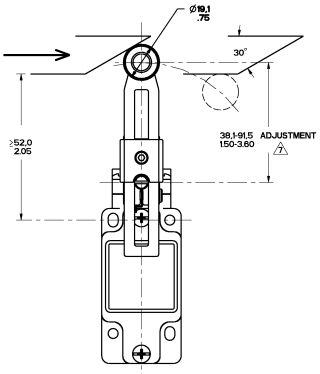

FIGURE 9

FIGURES 8, 9, 10 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*	SNAP - ACTION CONTACTS SINGLE POLE Zb	21-22, 13-14: 26° 55**° 85°; 12° DIFFERENTIAL TRAVEL	.330 / 2.9	.385 / 3.4	1290	13	250
GL**03A*	SLOW ACTING BREAK BEFORE MAKE Zb	21-22, 13-14: 26**° 85°; 38°	.330 / 2.9	.385 / 3.4	1290	13	250
GL**04A*	SLOW ACTING MAKE BEFORE BREAK Zb	21-22, 13-14: 38**° 85°; 26°	.330 / 2.9	.400 / 3.5	1290	13	250
GL**20A* GL**24A*	SNAP ACTION CONTACTS DOUBLE POLE	11-12, 21-22, 13-14, 23-24: 26° 55**° 85°; 12° DIFFERENTIAL TRAVEL	.330 / 2.9	.385 / 3.4	1290	13	250
GL**21A* GL**25A*	STEP 1, STEP 2 — SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	11-12, 13-14, 21-22, 23-24: 27 42; B DIFFERENTIAL TRAVEL; B DIFFERENTIAL TRAVEL	.330 / 2.9	N/A	1290	13	250

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 N / LB	MAXIMUM DISCONNECT FORCE N / LB	MAX OPERATE VEL M/S / mm/s	MIN OPERATE VEL M/S / mm/s	MAX OPERATE FREQUENCY OPS/MIN
GL**01A*	SNAP - ACTION CONTACTS SINGLE POLE Zb	21-22, 13-14: 0 20 56**; 12 DIFFERENTIAL TRAVEL	9.7 / 2.2	11.4 / 2.6	.85 / 33.5	.8.5 / .33	250
GL**03A*	SLOW ACTING BREAK BEFORE MAKE Zb	21-22, 13-14: 0 20**; 32	9.7 / 2.2	11.4 / 2.6	.85 / 33.5	.8.5 / .33	250
GL**04A*	SLOW ACTING MAKE BEFORE BREAK Zb	21-22, 13-14: 0 20**; 6	9.7 / 2.2	11.4 / 2.6	.85 / 33.5	.8.5 / .33	250
GL**20A* GL**24A*	SNAP ACTION CONTACTS DOUBLE POLE	11-12, 21-22, 13-14, 23-24: 0 20 56**; 12 DIFFERIENTIAL TRAVEL	9.7 / 2.2	11.8 / 2.7	.85 / 33.5	.8.5 / .33	250
GL**21A* GL**25A*	STEP 1, STEP 2 — SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	11-12, 13-14, 21-22, 23-24: 0 20 38.5; 8.5 DIFFERENTIAL TRAVEL; 7 DIFFERENTIAL TRAVEL	9.7 / 2.2	N/A	.85 / 33.5	.8.5 / .33	250

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 N / LB	MAXIMUM DISCONNECT FORCE N / LB	MAX OPERATE VEL M/S / mm/s	MIN OPERATE VEL M/S / mm/s	MAX OPERATE FREQUENCY OPS/MIN
GL**26J*	CCW, CW — SNAP ACTION CONTACTS DOUBLE POLE CENTER NEUTRAL	11-12, 13-14, 21-22, 23-24: 0 16; B DIFFERENTIAL TRAVEL; B DIFFERENTIAL TRAVEL	9.7 / 2.2	N/A	.85 / 33.5	.8.5 / .33	250

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SWITCH, ENCLOSED

GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

DESIGN UNITS

WEIGHT

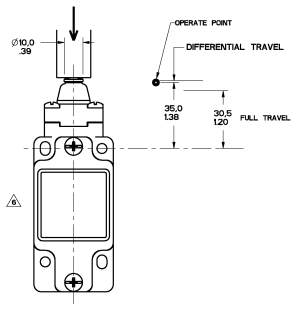

FIGURE 11

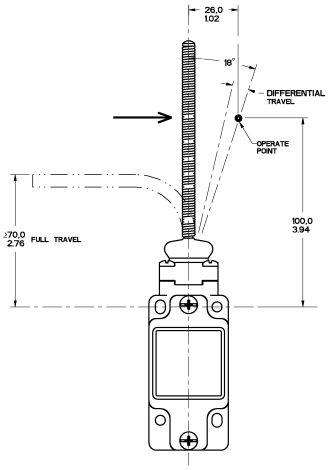

FIGURE 12

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 (INCH/S)	MIN OPERATE VEL mm/S (INCH/S)	MAX OPERATE FREQUENCY OPS/MIN
GL**01B	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	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	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**20B GL**24B	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	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 VELOCITY DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**01E	SNAP - ACTION CONTACTS SINGLE POLE	18°; 21-22, 13-14; 8° DIFFERENTIAL TRAVEL	0.2 (1.8)	N/A	360	8	100
GL**20E GL**24E	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 (INCH/S)	MIN OPERATE VEL mm/S (INCH/S)	MAX OPERATE FREQUENCY OPS/MIN
GL**01E	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**20E GL**24E	SNAP ACTION CONTACTS DOUBLE POLE	26; 11-12, 21-22, 13-14, 23-24; 12 DIFFERENTIAL TRAVEL	2.5 (0.6)	N/A	.5 (19.7)	11 (.43)	100

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SWITCH, ENCLOSED

CATALOG LISTING — GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

DESIGN UNITS X

WEIGHT

MASTER REDUCED
ANSI Y14.5M-1982 APPLIES

PTC/CAD
GL SERIES CHART 1 — 5 OF 8 SHEETS — DRAWING NO. 88-20181 — ISSUE 16 — SHEET 5 SHEETS — REVISIONS — ZONE — LTR — DESCRIPTION — DATE — APPROVED — 91929 — 88201063 — SIZE — CAGE CODE

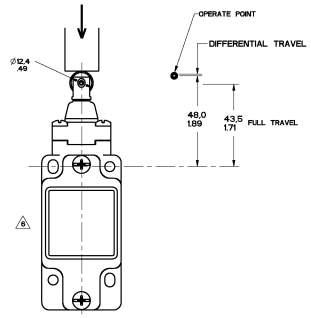

FIGURE 13A

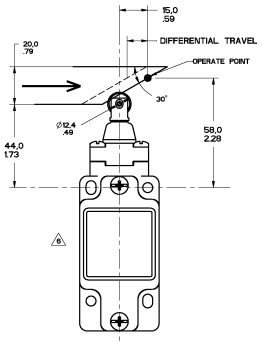

FIGURE 13B

FIGURE 13A, ROLLER PLUNGER HEAD, PIN ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS — CONTACT CLOSED, ▨ CONTACT CLOSED, □ CONTACT OPEN; DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N / lb	MAXIMUM DISCONNECT FORCE N / lb	MAX OPERATE VEL M/S / m/min	MIN OPERATE VEL mm/S / m/min	MAX OPERATE FREQUENCY OPS/MIN
GL**01C	SNAP - ACTION CONTACTS SINGLE POLE Zb	50.5 · 48 · 46** · 43.5 21-22, 13-14 0.9 DIFFERENTIAL TRAVEL	16 / 3.6	27 / 6.0	0.1 / 1.9	1.0 / .04	250
GL**03C	SLOW ACTING BREAK BEFORE MAKE Zb	50.5 · 48** · 43.5 21-22, 13-14 47	16 / 3.6	27 / 6.0	0.1 / 1.9	1.0 / .04	250
GL**04C	SLOW ACTING MAKE BEFORE BREAK Zb	50.5 · 47** · 43.5 21-22, 13-14 48	16 / 3.6	27 / 6.0	0.1 / 1.9	1.0 / .04	250
GL**20C GL**24C	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 / 1.9	1.0 / .04	250
GL**21C GL**25C	STEP 1 STEP 2 SNAP 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 / 1.9	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 CLOSED, □ CONTACT OPEN; DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE N / lb	MAXIMUM DISCONNECT FORCE N / lb	MAX OPERATE VEL M/S / m/min	MIN OPERATE VEL mm/S / m/min	MAX OPERATE FREQUENCY OPS/MIN
GL**01C	SNAP - ACTION CONTACTS SINGLE POLE Zb	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	SLOW ACTING BREAK BEFORE MAKE Zb	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	SLOW ACTING MAKE BEFORE BREAK Zb	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**20C GL**24C	SNAP ACTION CONTACTS DOUBLE POLE	0 · 15 · 18.3** · 11-12, 21-22, 13-14, 23-24 1.8 DIFFERENTIAL TRAVEL	9.3 / 2.1	21.4 / 4.8	0.17 / 6.7	1.7 / .067	250
GL**21C GL**25C	STEP 1 STEP 2 SNAP 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

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MICRO SWITCH
a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE FULL
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DECIMALS (INCLUDING ANGLES) ONLY FOR MATERIALS AND FINISHES NOT AS SPECIFIED
DIMENSIONS ARE IN INCHES
DESIGN UNITS
WEIGHT

PTC/CAD
SIZE A1 DRAWING
GL SERIES CHART 1
SHEET 6 OF 8
DRAWING NO. PR-20182
ISSUE 6
DELETED DOC NO 001 REVISED MAY 00/01
REVISIONS
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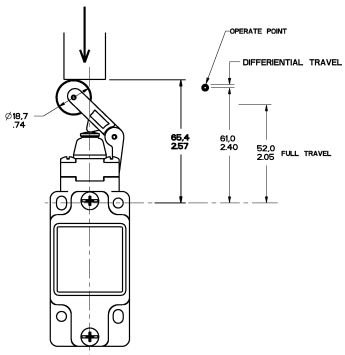

FIGURE 14A

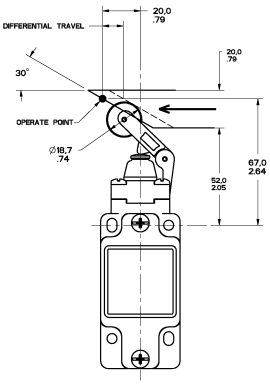

FIGURE 14B

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 / m/min	MIN OPERATE VEL M/S / m/min	MAX OPERATE FREQUENCY OPS/MIN
GL**01D	SNAP - ACTION CONTACTS SINGLE POLE Zb	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	SLOW ACTING BREAK BEFORE MAKE Zb	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	SLOW ACTING MAKE BEFORE BREAK Zb	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**20D GL**24D	SNAP ACTION CONTACTS DOUBLE POLE	65.2 / 61 / 56.9** / 52 11-12, 21-22, 13-14, 23-24 1.7 DIFFERENTIAL TRAVEL	9.5 / 2.1	16.4 / 3.7	0.17 / 6.7	1.7 / .067	250
GL**21D GL**25D	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 / m/min	MIN OPERATE VEL mm/S / m/min	MAX OPERATE FREQUENCY OPS/MIN
GL**01D	SNAP - ACTION CONTACTS SINGLE POLE Zb	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	SLOW ACTING BREAK BEFORE MAKE Zb	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	SLOW ACTING MAKE BEFORE BREAK Zb	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**20D GL**24D	SNAP ACTION CONTACTS DOUBLE POLE	0 / 20 / 29.1** / 11-12, 21-22, 13-14, 23-24 4.1 DIFFERENTIAL TRAVEL	5.5 / 1.2	7.0 / 1.6	0.29 / 11.4	2.9 / .11	250
GL**21D GL**25D	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 FULL

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DECIMALS UNLESS OTHERWISE SPECIFIED
REFERENCE DIMENSIONS ARE FOR INFORMATION ONLY

MACHINED SURFACES	.X ± 0.5	.XX ± 0.25	.XXX ± 0.127	ANGLES ± 2°
ALL OTHER SURFACES	.X ± 1.0	.XX ± 0.5	.XXX ± 0.254	

DESIGN UNITS: M (MM) I (INCH) — IS CUSTOMARY

WEIGHT

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CATALOG LISTING: GL SERIES CHART 1

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SHEET 1 OF 5
M GL SERIES CHART 1
DRAWING NO. PR-20182
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ISSUE 6
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CHECKED
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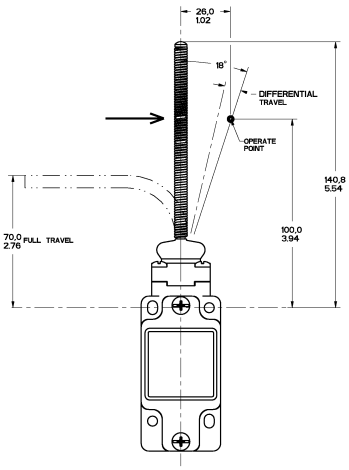

FIGURE 15

FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION

CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS – CONTACT CLOSED, – CONTACT OPEN, DIFFERENTIAL TRAVEL, CONTACT CLOSED	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	SNAP - ACTION CONTACTS SINGLE POLE Zb	18° 21-22, 13-14 8° DIFFERENTIAL TRAVEL	.01 .9	N/A	360	8	100
GL**20K GL**24K	SNAP ACTION CONTACTS DOUBLE POLE	18° 11-12, 21-22, 13-14, 23-24 8° DIFFERENTIAL TRAVEL	.01 .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, DIFFERENTIAL TRAVEL, CONTACT CLOSED	MAXIMUM OPERATING FORCE N LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL M/S FT/S	MIN OPERATE VEL MM/S FT/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01K	SNAP - ACTION CONTACTS SINGLE POLE Zb	26 21-22, 13-14 12 DIFFERENTIAL TRAVEL	1.3 .3	N/A	.5 1.7	11 .43	100
GL**20K GL**24K	SNAP ACTION CONTACTS DOUBLE POLE	2 11-12, 21-22, 13-14, 23-24 12 DIFFERENTIAL TRAVEL	1.3 .3	N/A	.5 1.7	11 .43	100

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CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DECIMALS UNLESS OTHERWISE SPECIFIED
INTERPRETATION PER ANSI Y14.5

IN	MM	IN	MM	IN	MM
.XX ±.02	.X ±0.5	.XXX ±.010	.XX ±0.25	.XXXX ±.0050	.XXX ±0.127
ANGLES ±2°					

DESIGN UNITS: M METRIC [X], IE CUSTOMARY [ ]

WEIGHT

PTC/CAD
SIZE 91929 DWG GL01 REVISIONS 0563
ISSUE 16 SHEET 1 OF 5
M GL SERIES CHART 1
DRAWING NO. PR-20182
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