SIDE ROTARY

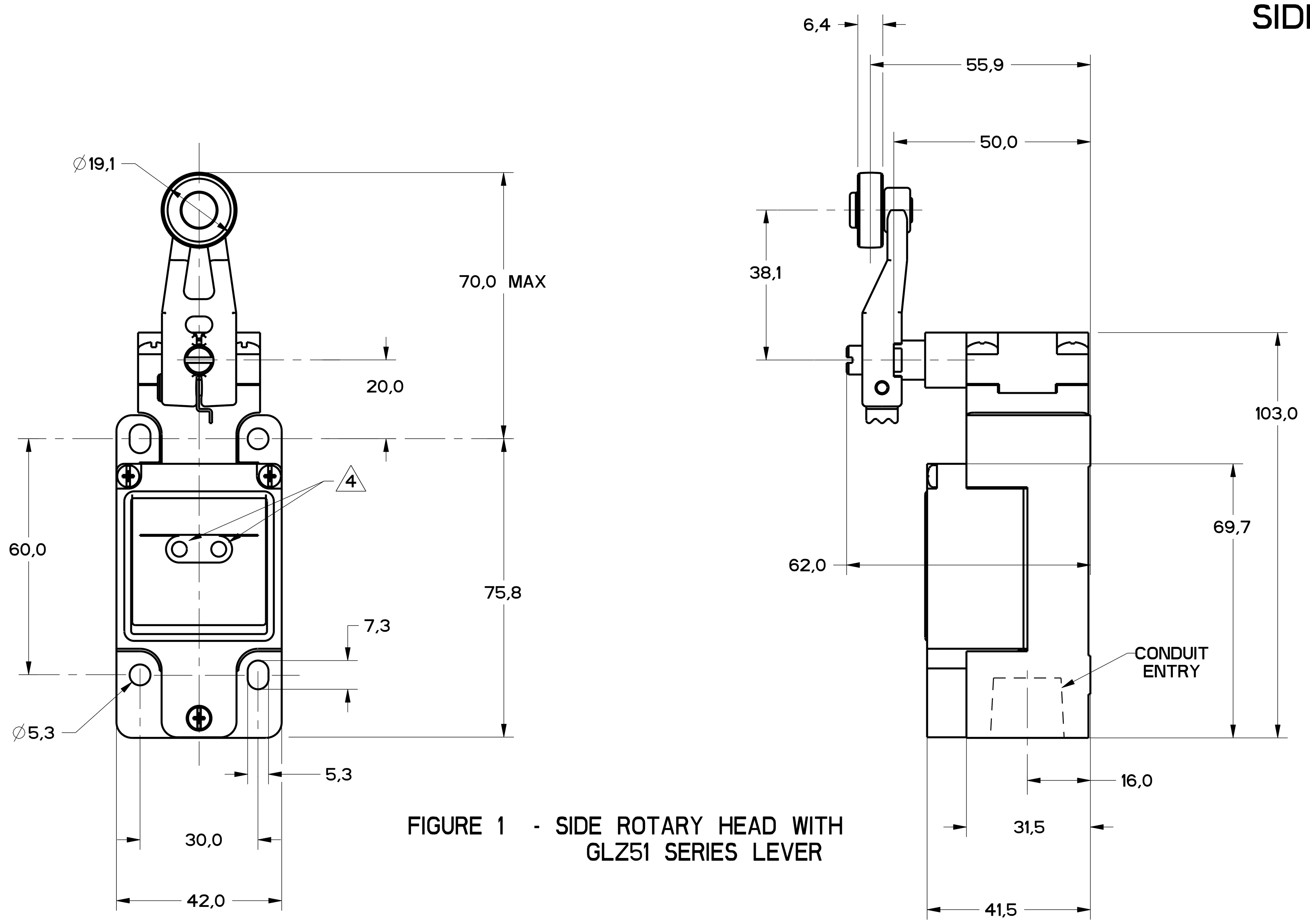

FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

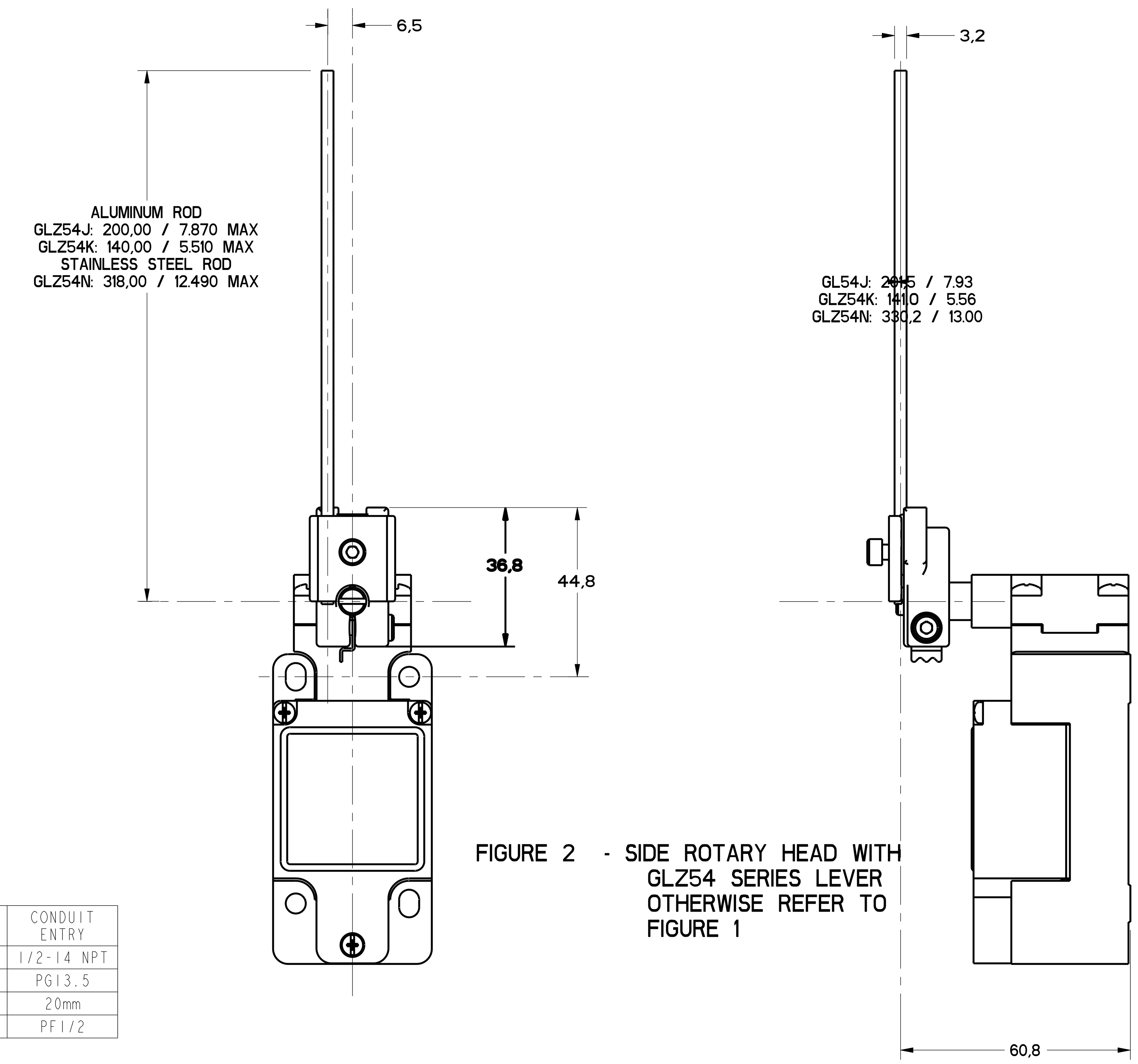

FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

FIGURE	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			
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

CATALOG LISTING	BODY DIMENSIONS, FIGURE	HEAD DIMENSIONS, FIGURE	HEAD ACTUATION, FIGURE
GLB****	1	N/A	N/A
GLG****	1	N/A	N/A
GLJ****	1	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*	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****E7C	1	7E	12
GL****E7D	1	7B	12
GL****K8A	1	7C	15
GL****K8B	1	7D	15
GL****K8C	1	7	15

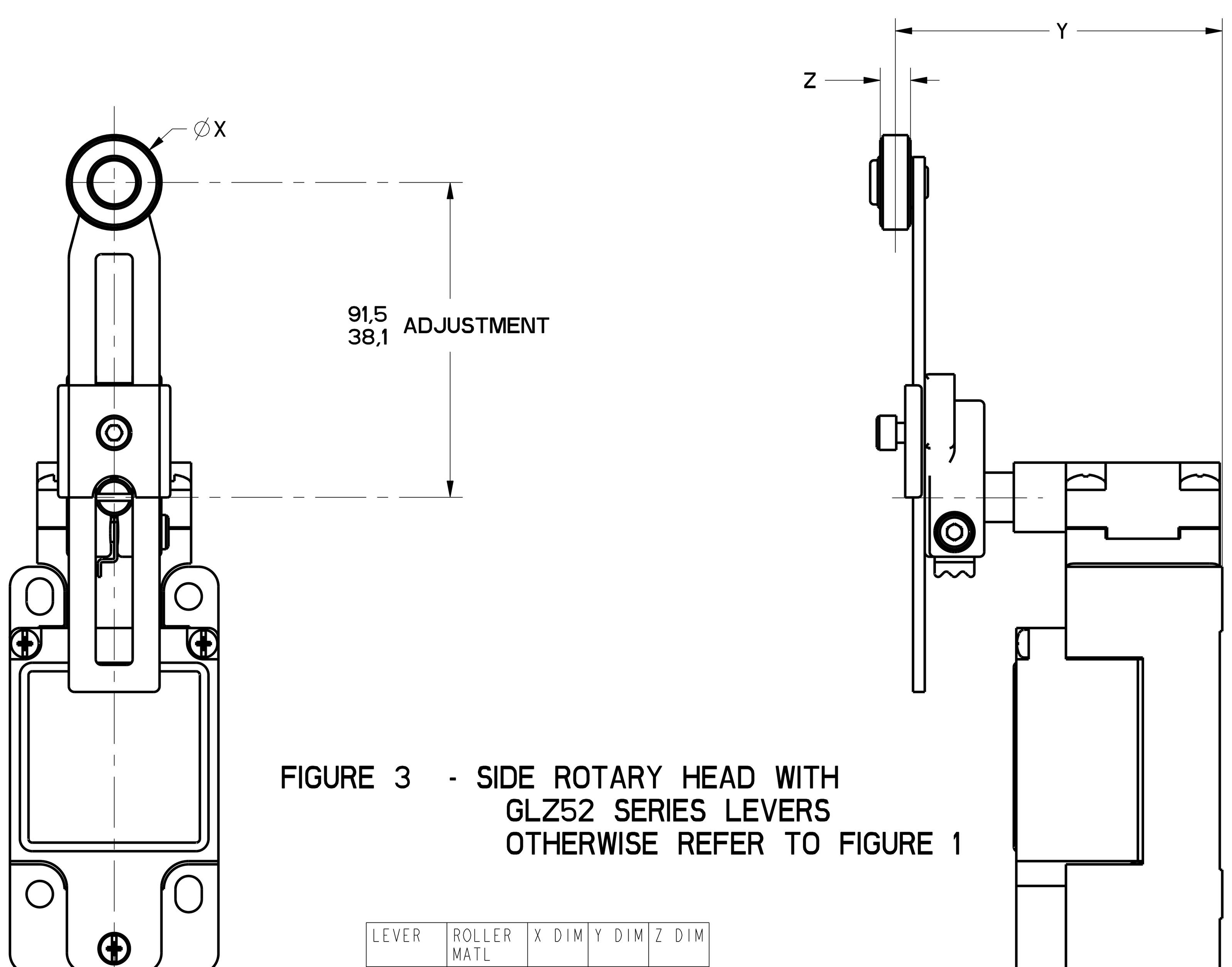

FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

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 1.5	71,5 2.81	12,7 .5
GLZ52Y	RUBBER	50,9 2.0	71,5 2.81	12,7 .5

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 RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLG SERIES PRODUCTS ONLY.
5 THE MAXIMUM VOLTAGE, Ve OF GLG 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 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

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING: GL SERIES CHART 2

THIRD ANGLE PROJECTION
SCALE FULL
DO NOT SCALE PRINT
TOLERANCES
DESIGN UNITS: SI METRIC ☒ US CUSTOMARY ☐
WEIGHT

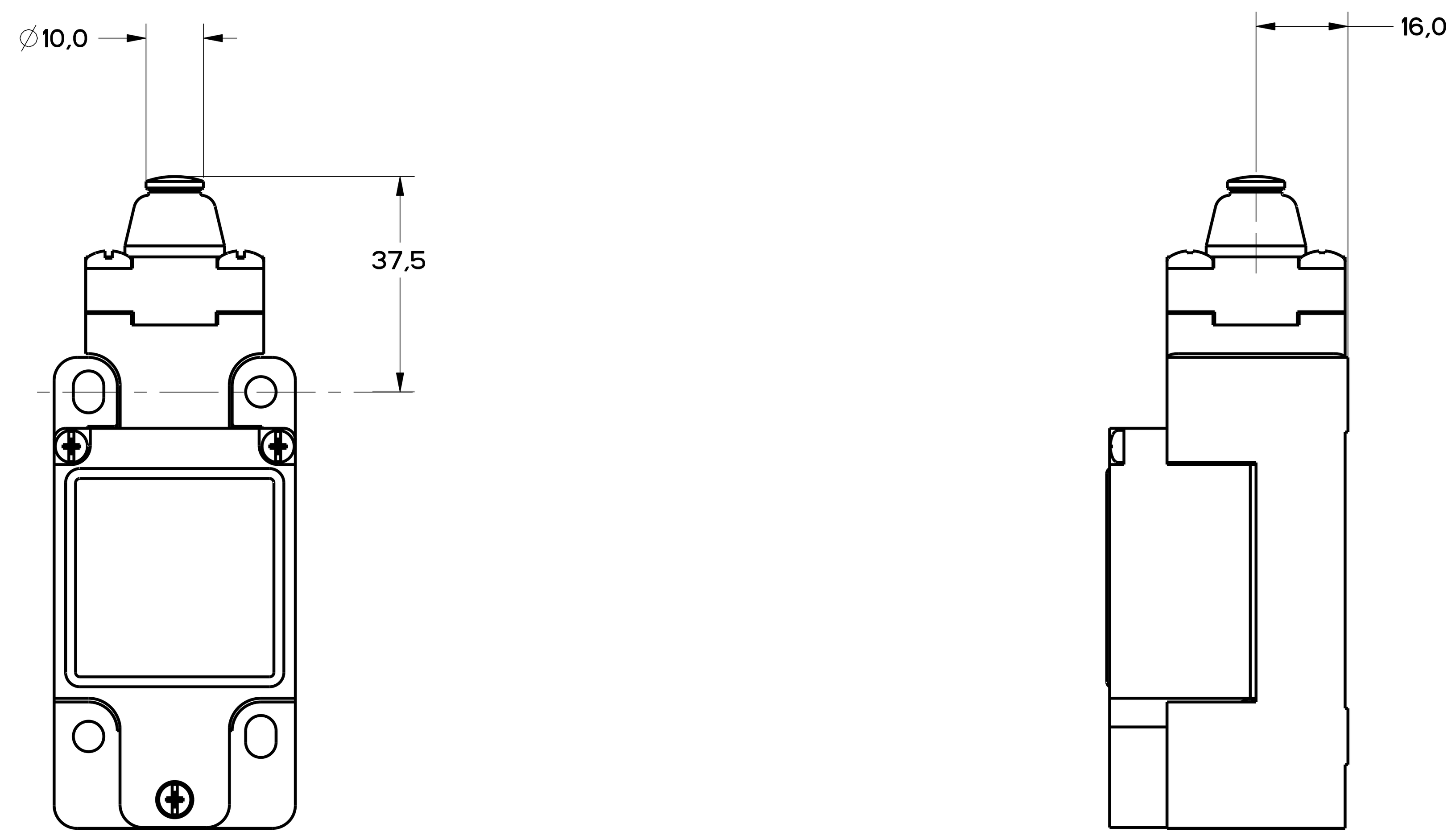

FIGURE 4 - TOP PIN PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

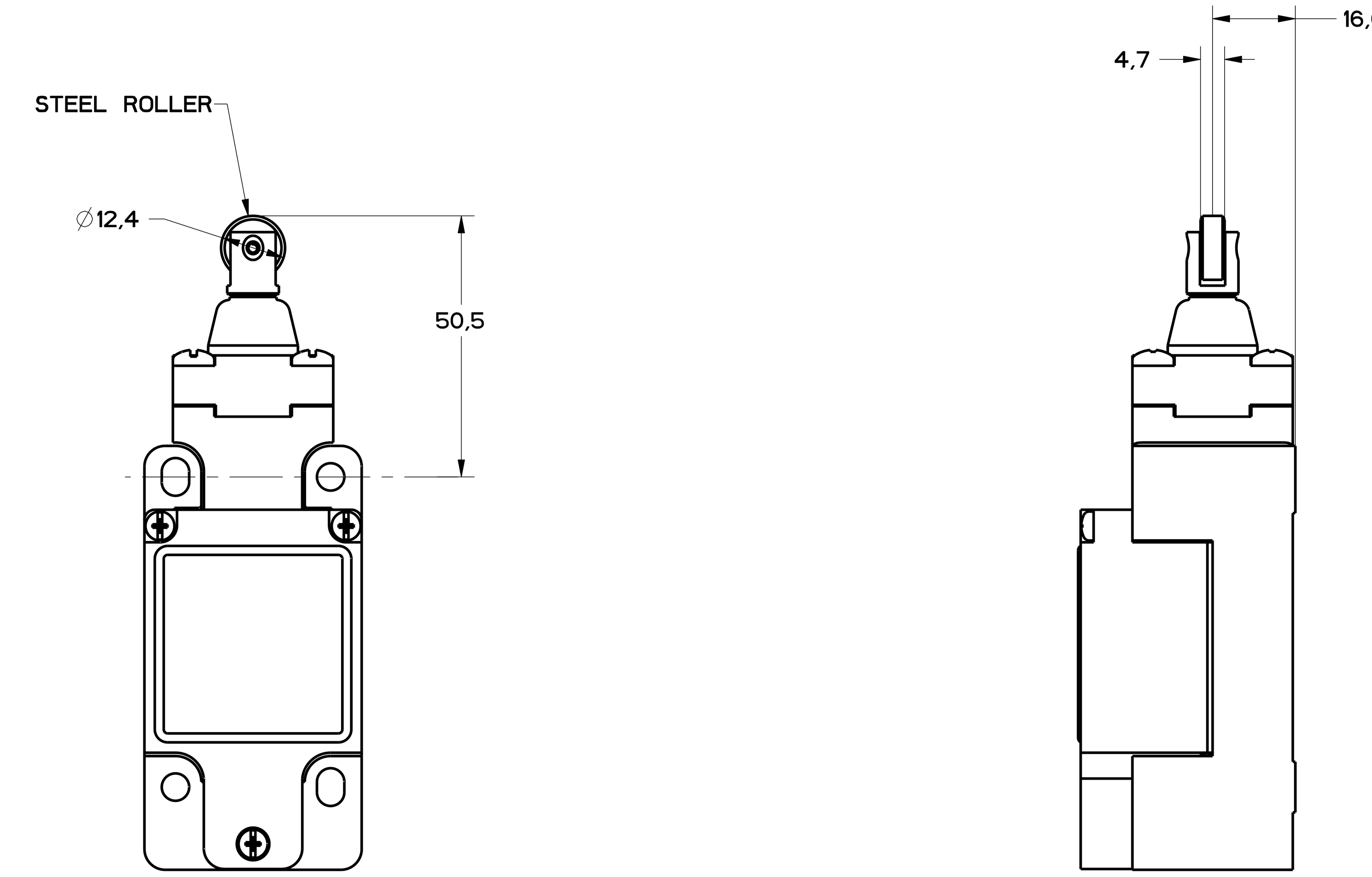

FIGURE 5 - TOP ROLLER PLUNGER HEAD
OTHERWISE REFER TO
FIGURE 1

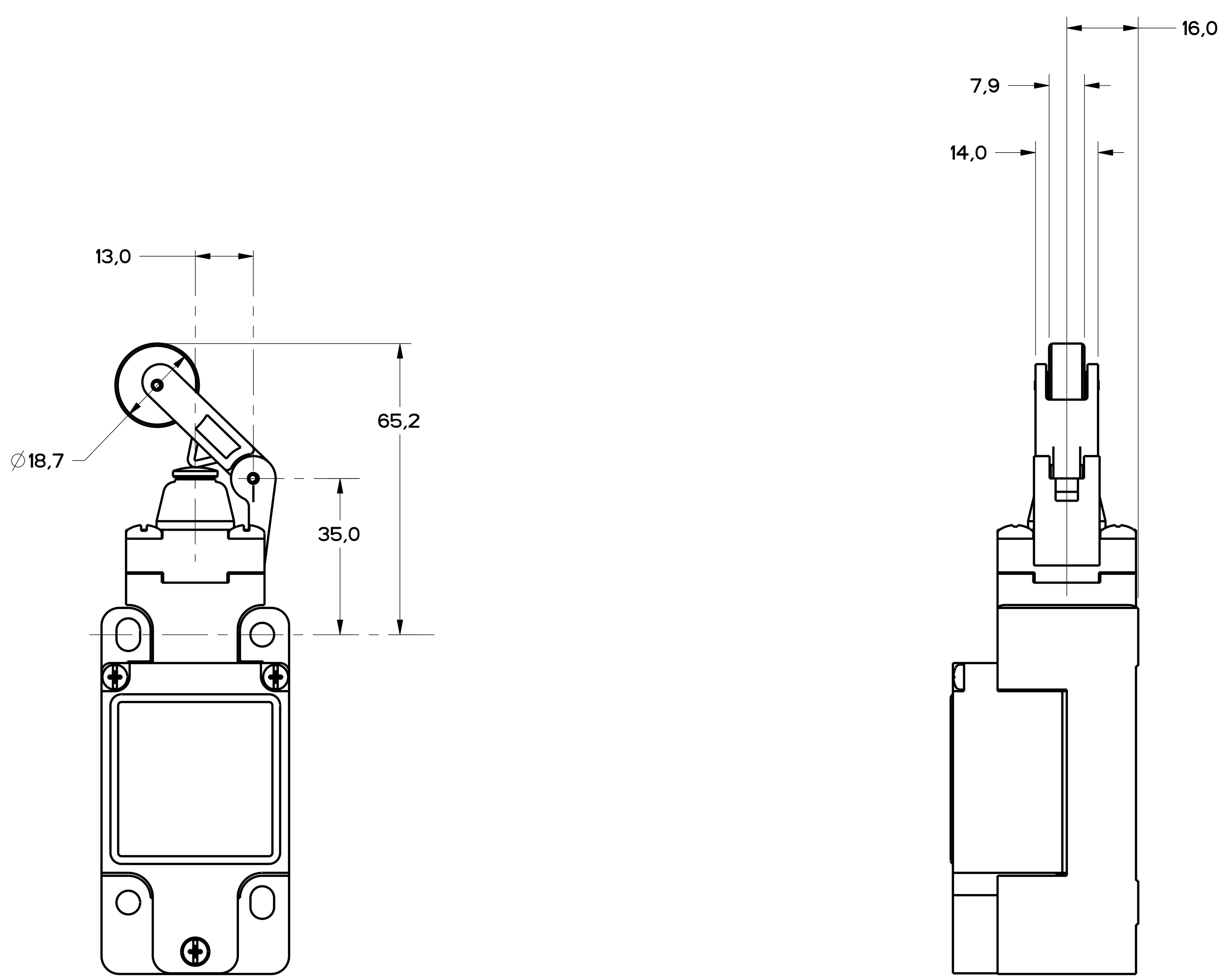

FIGURE 6 - TOP LEVER HEAD,
OTHERWISE REFER TO
FIGURE 1

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

FED. MFG. CODE 91929

MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 2

DESIGN UNITS SI METRIC [X] US CUSTOMARY [ ]

WEIGHT

ANSI Y14.5M-1982 APPLIES

M GL SERIES CHART 2 PAGE 1 OF 8 RELEASE NO. PR-20782

ISSUE 11

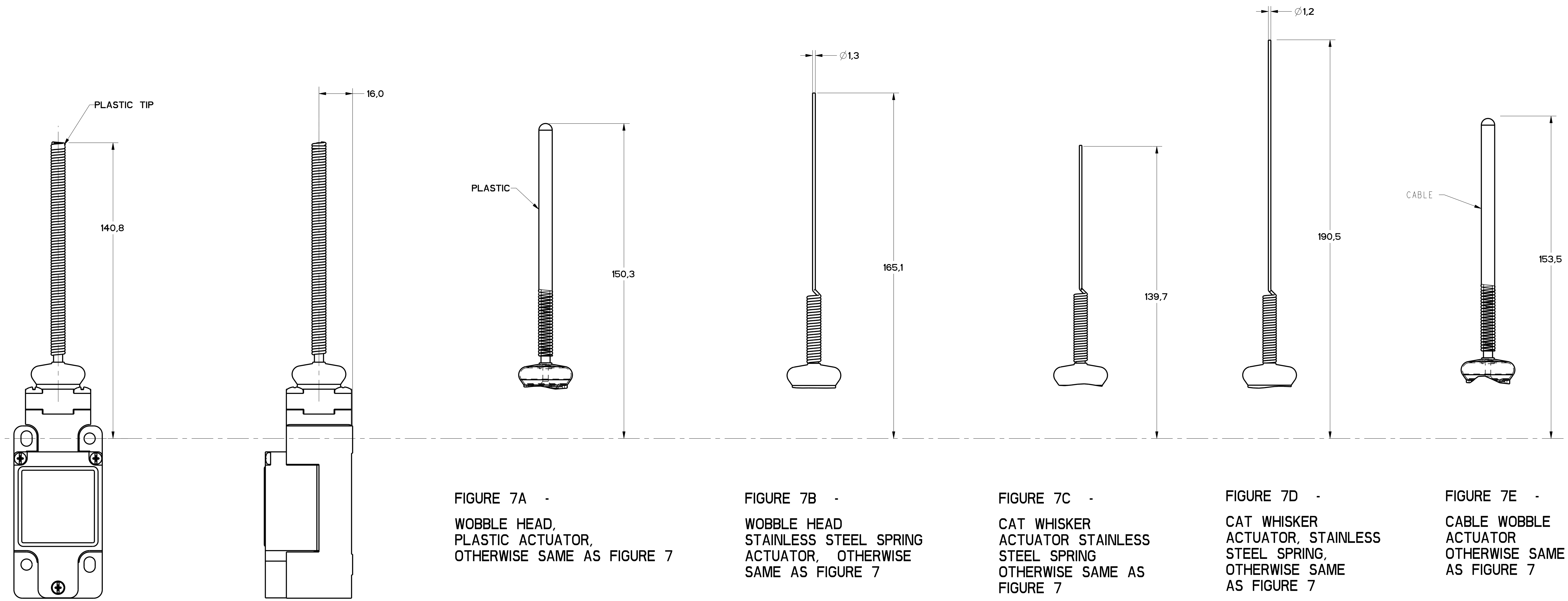

FIGURE 7A -

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

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

FED. MFG. CODE 91929

MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING: GL SERIES CHART 2

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

DESIGN UNITS: SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

ANSI Y14.5M-1982 APPLIES

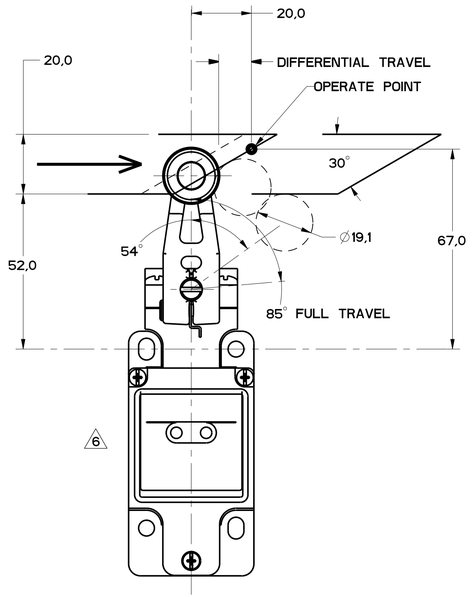

FIGURE 8

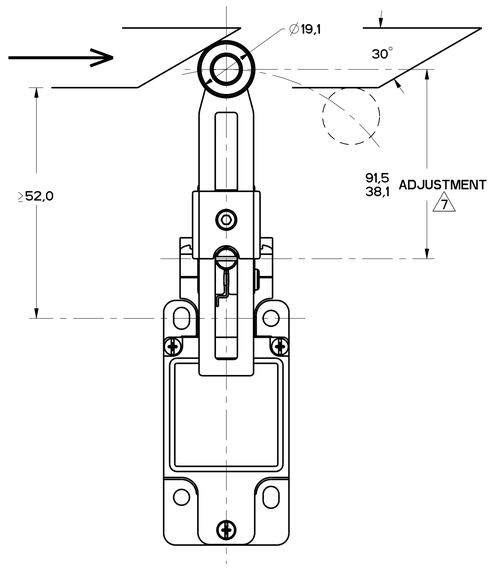

FIGURE 9

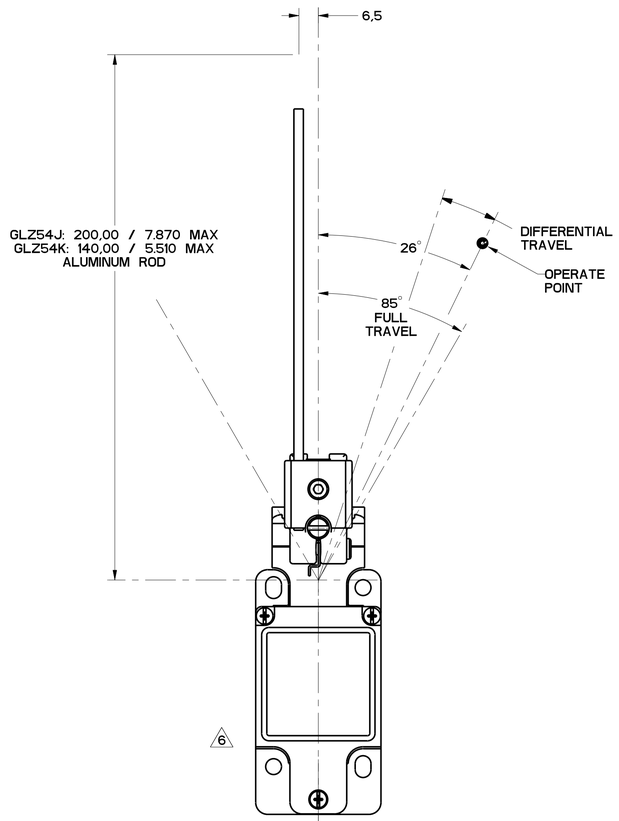

FIGURE 10

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**02A*	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

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 / in/S	MIN OPERATE VEL mm/s / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02A*	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

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

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

DIM in	TOL in	DIM mm	TOL mm
NO PLACES	X	.1/.04	X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.X	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XX	0.13/.005
THREE PLACES				
ANGLES		±2°		

SI METRIC ☒ DESIGN UNITS ☐ US CUSTOMARY

WEIGHT

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MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 2

M GL SERIES CHART 2 — 4 OF 8 — RELEASE NO. PR-20782 — DRAWING NUMBER — ISSUE 11 — CHECK MDM

REVISIONS

A	PR-21403	S A V 28MAR96
B	CO-93769	KED 6NOV98
C	0000401	GLW 2JUN03
D	0002986	RK 20JAN04
E	0017532	TPD 02DEC05

PTC/CAD DRAWN S A V 28MAR96 CHECK RJ 02DEC05

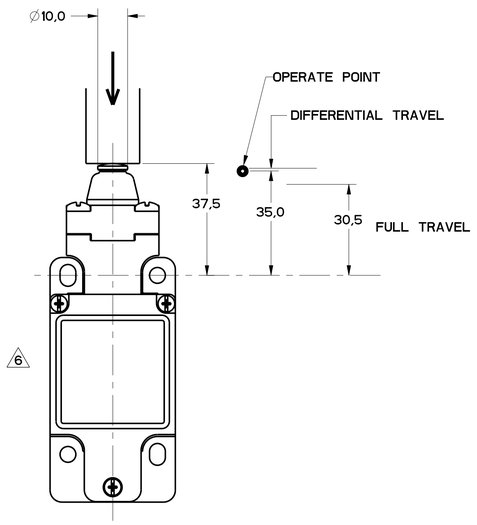

FIGURE 11

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 Zb	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

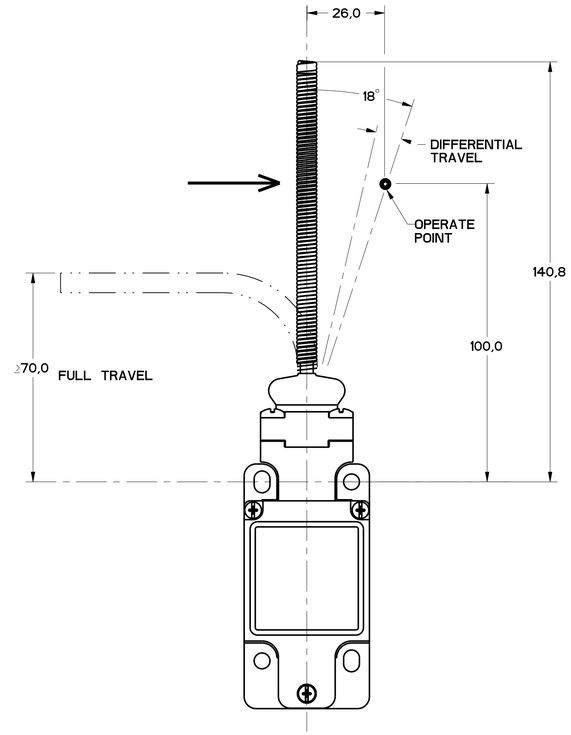

FIGURE 12

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 DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**02E	SNAP - ACTION CONTACTS SINGLE POLE Zb	18° 21-22 >, 13-14 < 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 / in/S	MIN OPERATE VEL mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02E	SNAP - ACTION CONTACTS SINGLE POLE Zb	26 21-22 >, 13-14 < 12 DIFFERENTIAL TRAVEL	2.5 / 0.6	N/A	.5 / 19.7	11 / .43	100

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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 mm	TOL mm/±	DIM in	TOL inch/±
NO PLACES	X.	1/2	X.X	0.5/.02
ONE PLACE	X.X	0.1	X.XX	0.25/.010
TWO PLACES	X.XX	0.13/.005	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

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

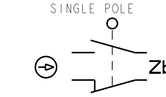
ANSI Y14.5M-1982 APPLIES

M GL SERIES CHART 2 — 5 OF 8 — REPLACES — RELEASE NO. PR-20782 — PAGE — DRAWING NUMBER 11 — ISSUE — M/M

REVISIONS			
A	ECO-78092	GLH 20 SEP 94	02DEC05
B	ECO-93789	KLO 4NOV98	
C	0000401	GLH 9JUN03	RJ
D	0002986	RS 20JAN04	CHECK
E	0017532	TSO 02DEC05	

5JAN94 — MAM — CHECK — 10DEC93 — PTC/CAD — DRAWN — W.L.S

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 mm/S / in/S	MIN OPERATE VEL mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02C	SNAP - ACTION CONTACTS SINGLE POLE 		16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250

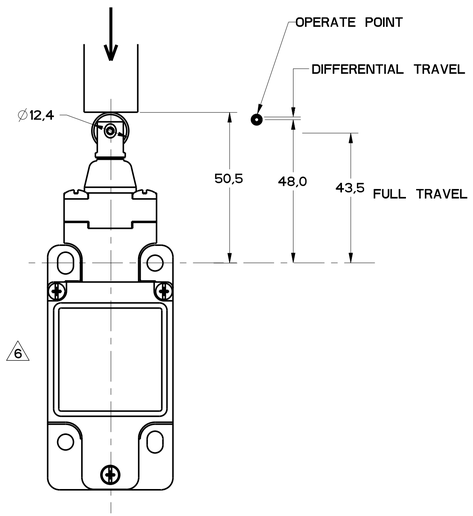


FIGURE 13A

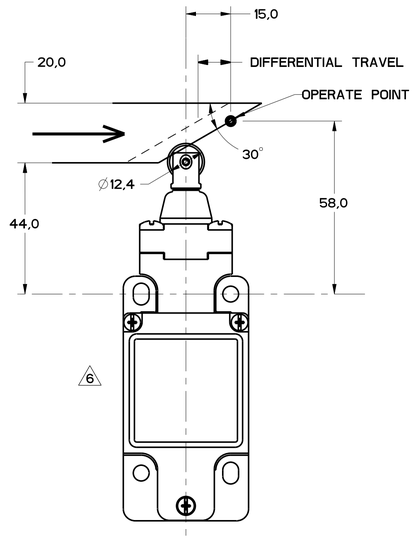
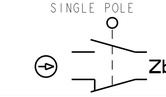
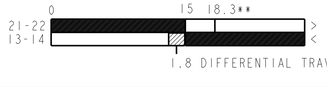


FIGURE 13B

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 mm/S / in/S	MIN OPERATE VEL mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02C	SNAP - ACTION CONTACTS SINGLE POLE 		9.3 / 2.1	15.6 / 3.5	0.17 / 6.7	1.7 / .067	250

FED. MFG. CODE 91929

MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING: GL SERIES CHART 2

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

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

DIM mm	TOL mm±	DIM in	TOL mm±
NO PLACES	X	1/64	X.X	0.81/.03
ONE PLACE	X.X	0.41/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2		

SI METRIC [X] DESIGN UNITS

US CUSTOMARY [ ]

WEIGHT

PTC/CAD
DRAWN WLS 0DEC93
CHECK MAM 5JAN94
CHECK RJ 02DEC05
CHECK MDM
ISSUE 11
DRAWING NUMBER
RELEASE NO. PR-20182
PAGE 6 OF 8
REPLACES
M GL SERIES CHART 2

REVISIONS
A CO-78092 GLN 20 SEP 94 02DEC05
B CO-93789 KED 4NOV98
C 0000401 GLN 2JUN03
D 0002986 RK 20JAN04
E 0017532 CO-020EC05

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 mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02D	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

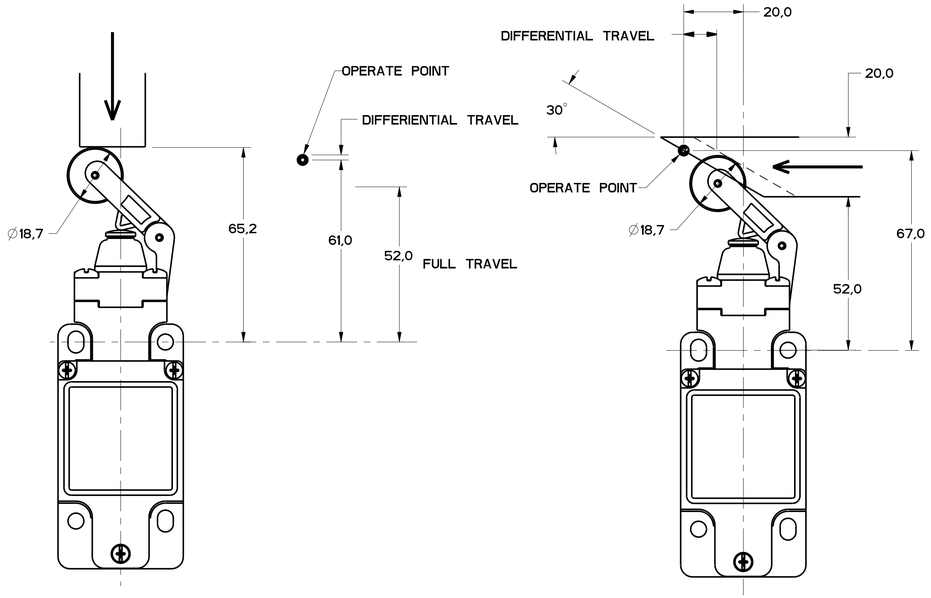


FIGURE 14A

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**02D	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

FIGURE 14B

FED. MFG. CODE 91929

MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING: GL SERIES CHART 2

ANSI Y14.5M-1982 APPLIES

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 mm	TOL. mm/±	US CUSTOMARY in	TOL. in/±
NO PLACES	X	1/.04	X.X	0.81/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.381/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.127/.005
THREE PLACES				
ANGLES		±2°		

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

WEIGHT

M GL SERIES CHART 2 — PAGE 7 OF 8 — RELEASE NO. PR-20782 — REPLACES

DRAWING NUMBER 11 — ISSUE — MDM — CHECK

REVISIONS

A	TAO 78092	02DEC05	CHECK
B	GLW 20 SEP 94 CO-93789		
C	KED 4NOV96 0000401	RJ	
D	GLW 3JUN03 0002986	CHECK	
E	RS 30JAN04 0017532		
	TAO 02DEC05		

PTC/CAD — DRAWN WLS 10DEC93 — CHECK MAM 5JAN94 — CHECK

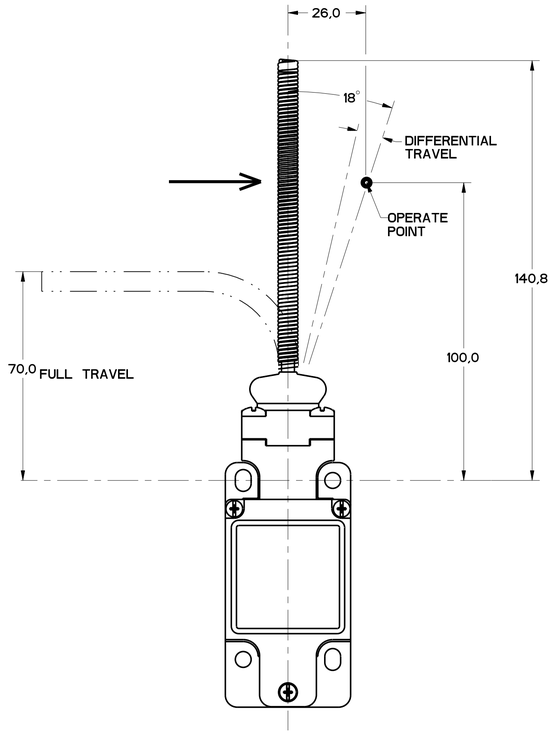


FIGURE 15

FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION

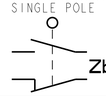
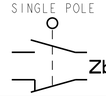
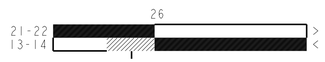
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS ■ CONTACT CLOSED, ▭ CONTACT OPEN ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL	MAXIMUM OPERATING TORQUE N·m / LB-IN	MAXIMUM DISCONNECT TORQUE N·m / LB-IN	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**02K	SNAP - ACTION CONTACTS SINGLE POLE 		.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 N / LB	MAXIMUM DISCONNECT FORCE N / LB	MAX OPERATE VEL mm/S / in/S	MIN OPERATE VEL mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02K	SNAP - ACTION CONTACTS SINGLE POLE 		1.3 / .3	N/A	.5 / 19.7	11 / .43	100

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

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 mm	TOL mm/±	DIM in	TOL in/±
NO PLACES	X	1/.04	X	0.4/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.13/.005	X.XXX	0.13/.005
THREE PLACES				
ANGLES		±2°		

SI METRIC [X] DESIGN UNITS

US CUSTOMARY [ ]

WEIGHT

PTC/CAD DRAWN WLS 10 DEC 93 CHECK MAM 5JAN94 CHECK RJ 02DEC05 CHECK MDM

REVISIONS
A ECO T8092 GLH 20 SEP 94
B CO-93389 WED ANDVAN
C 0000401 GLH 3JUN03
D 0002986 BS 30JAN04
E 0017532 TSG 02DEC05

ISSUE 11

DRAWING NUMBER M

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