SIDE ROTARY

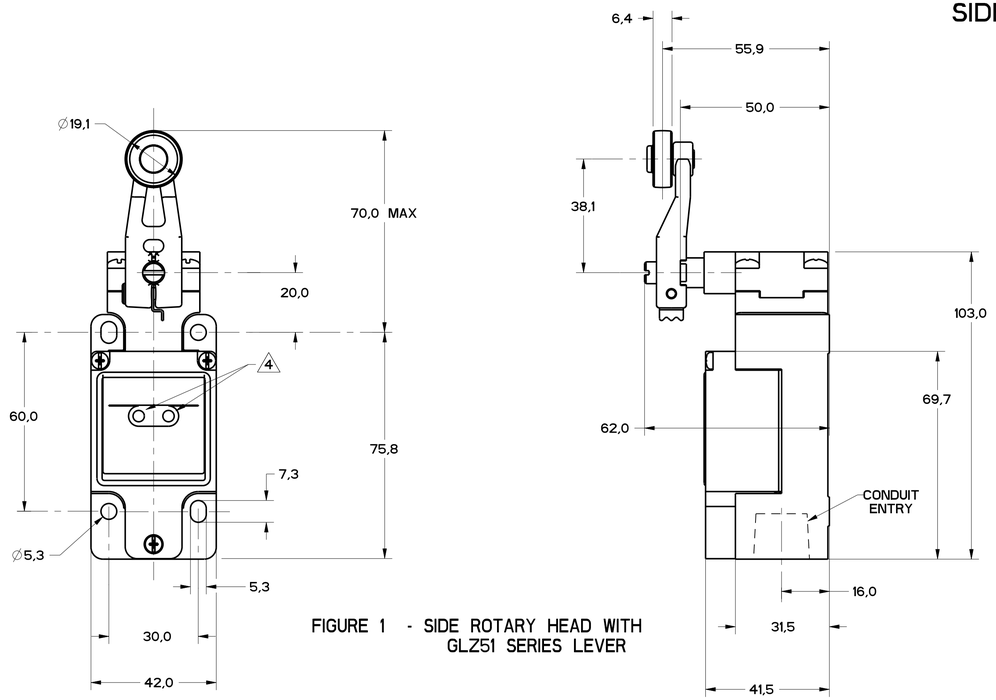
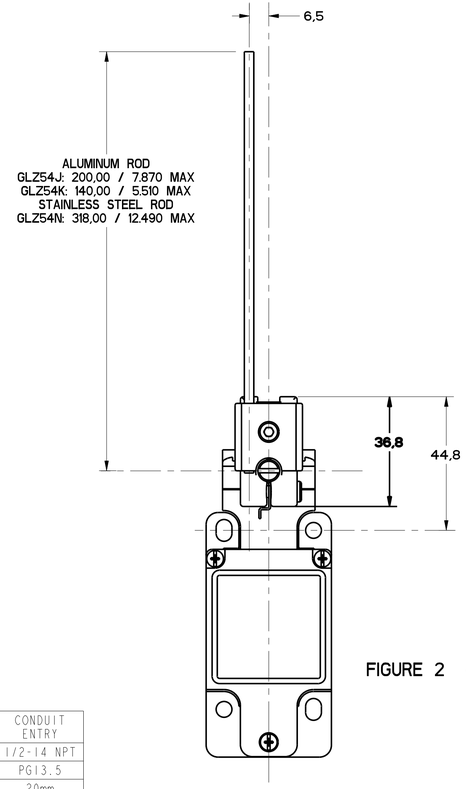


FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER



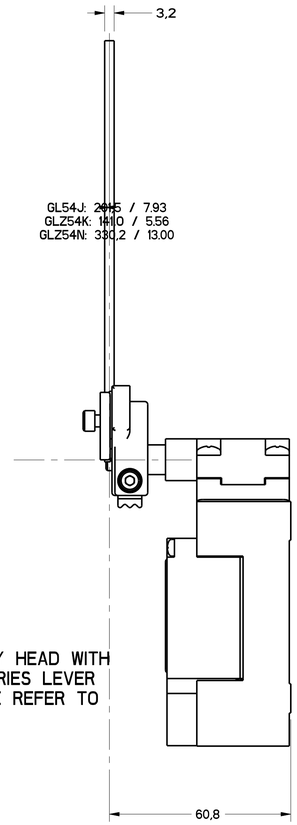


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

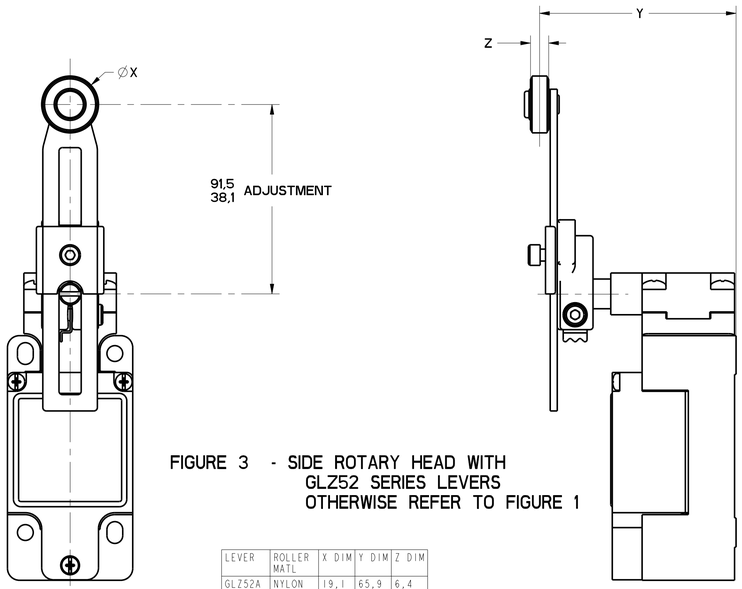


FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

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 1.5	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 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

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

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

SI METRIC ☒ US CUSTOMARY ☐
DESIGN UNITS
WEIGHT

PTC/CAD
DRAWN S A V 28MAR96
CHECK RJ
APPD
MFG
CHECK
M GL SERIES CHART 2 PAGE 1 OF 8 RELEASE NO. PR-20182 REPLACES
DRAWING NUMBER 11
ISSUE MDM
CHECK
REVISIONS
A PR-21603 1 FEB 28 MARCH 96
B PR-21578 2 APR11 96
C PR-21557 SKV 1 MAY 96
D PR-22833 GLW 5 JUN 97
E CO-93789 KED 6 JUN98
F 0000401 GLW 7 JUN03
G 0002986 AC 20JAN04
H 0017532 RJ 02DEC05

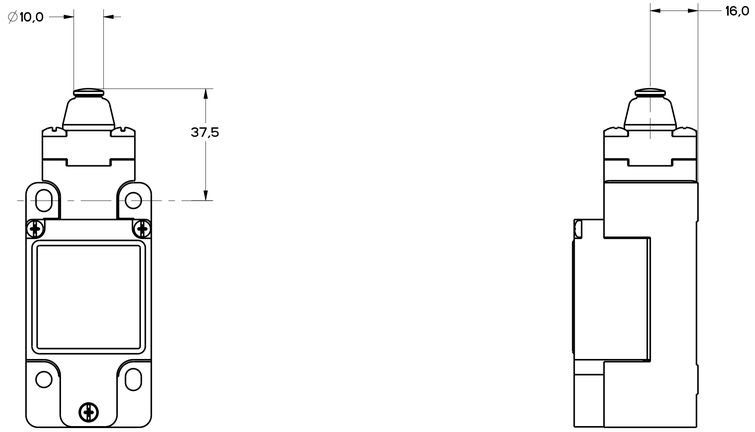

FIGURE 4 - TOP PIN PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

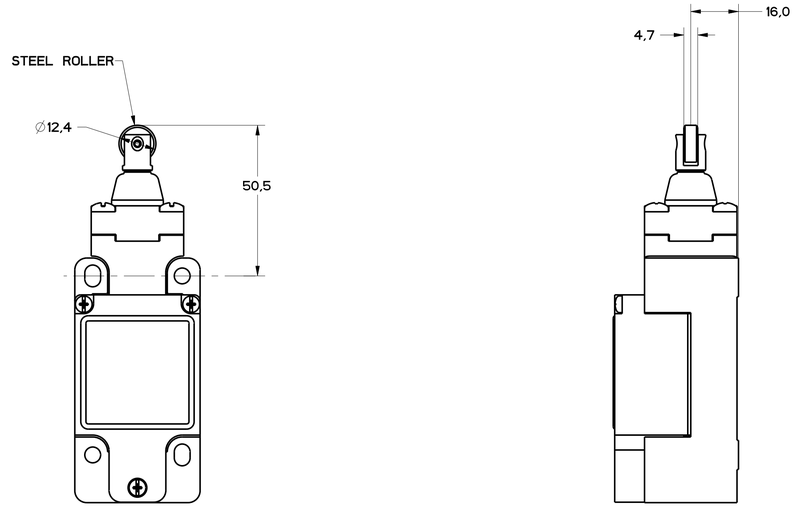

FIGURE 5 - TOP ROLLER PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

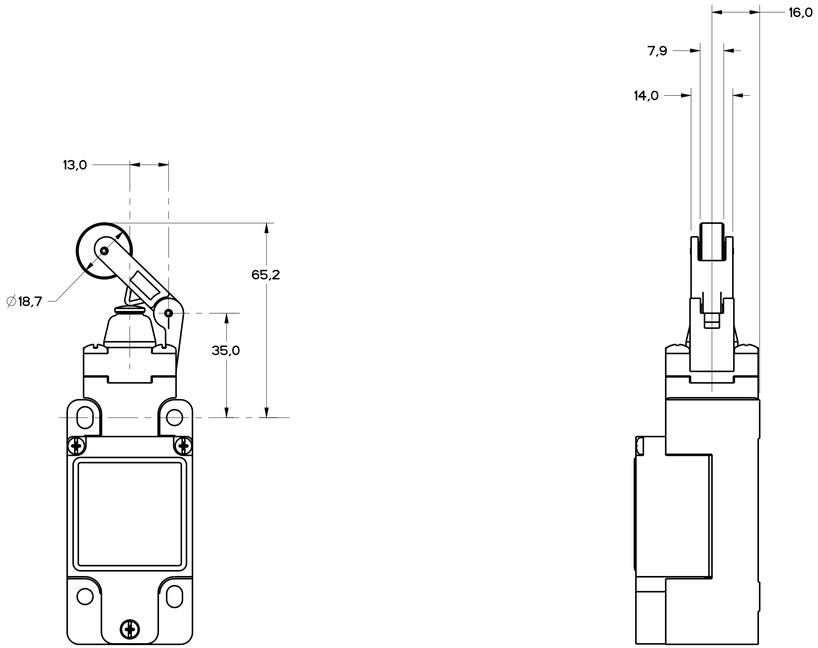

FIGURE 6 - TOP LEVER HEAD, OTHERWISE REFER TO FIGURE 1

PTC/CAD						
DRAWN	WLS	10DEC93	GLH	10DEC93	CHECK	
ISSUE	11					
DRAWING NUMBER	GL SERIES CHART 2					
PAGE	1 OF 8					
RELEASE NO.	PR-20782					
REPLACES						

REVISIONS					
A	CO-93389	KED 6NOV94			
B	0008401	GLH 4JUN03	02DEC05	MDM	CHECK
C	0002986	RG 10JAN14	RJ		
D	0017532	TDG 02DEC05	CHECK		

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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 in
NO PLACES	X	0,4	X	0,01/.03
ONE PLACE	X,X	0,1/.004	X,X	0,01/.005
TWO PLACES	X,XX	0,13/.005	X,XXX	0,13/.005
THREE PLACES				
ANGLES		±2°		

SI METRIC [X] US CUSTOMARY [ ]

DESIGN UNITS

WEIGHT

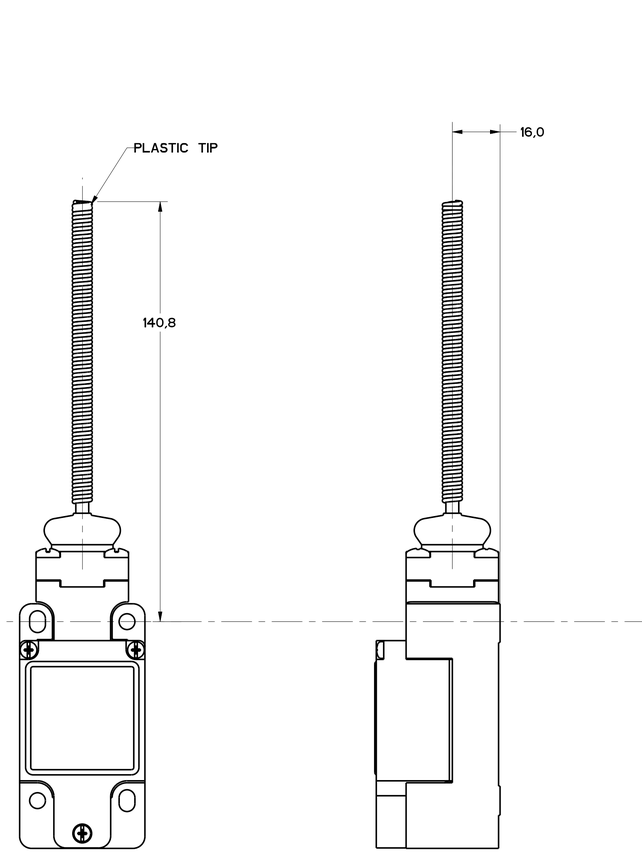

FIGURE 7 - WOBBLE HEAD, AND CAT WHISKER HEAD COIL ACTUATOR, OTHERWISE REFER TO FIGURE 1

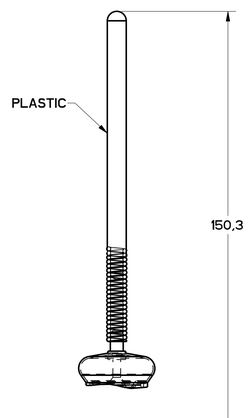

FIGURE 7A - WOBBLE HEAD, PLASTIC ACTUATOR, OTHERWISE SAME AS FIGURE 7

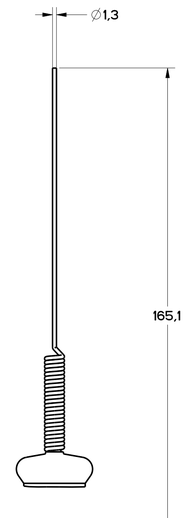

FIGURE 7B - WOBBLE HEAD STAINLESS STEEL SPRING ACTUATOR, OTHERWISE SAME AS FIGURE 7

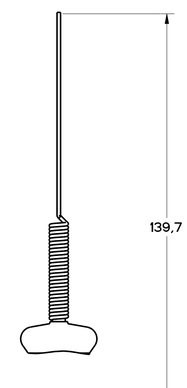

FIGURE 7C - CAT WHISKER ACTUATOR STAINLESS STEEL SPRING OTHERWISE SAME AS FIGURE 7

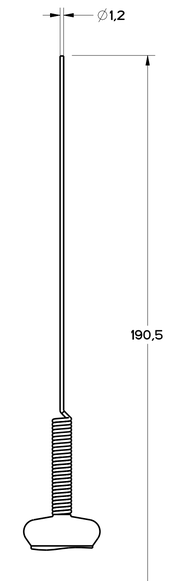

FIGURE 7D - CAT WHISKER ACTUATOR, STAINLESS STEEL SPRING, OTHERWISE SAME AS FIGURE 7

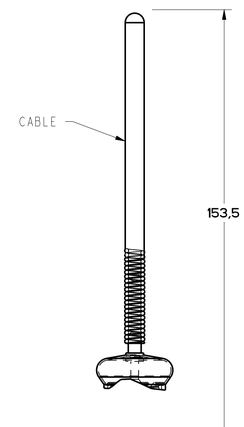

FIGURE 7E - CABLE WOBBLE ACTUATOR OTHERWISE SAME AS FIGURE 7

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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	0,4	X	0,01/.03
ONE PLACE	X,X	0,13/.016	X,XX	0,01/.015
TWO PLACES	X,XX	0,13/.006	X,XXX	0,13/.005
THREE PLACES				
ANGLES		±2°		

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐
WEIGHT

ANSI Y14.5M-1982 APPLIES

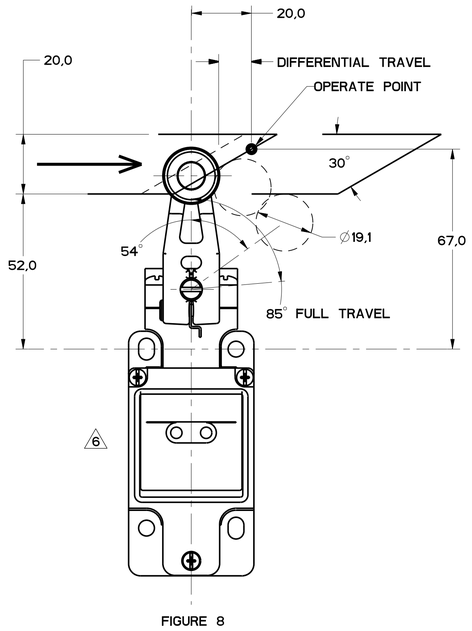

FIGURE 8

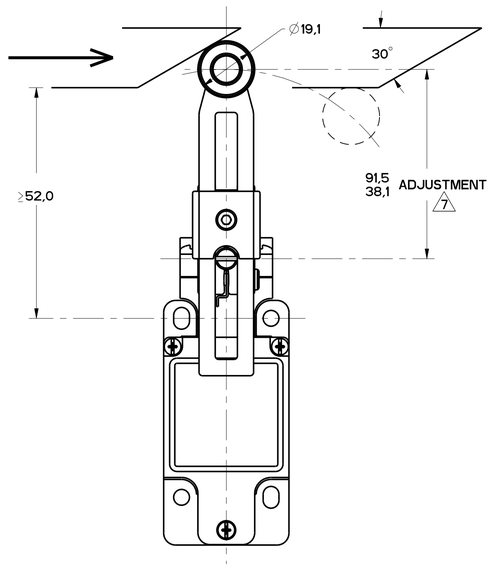

FIGURE 9

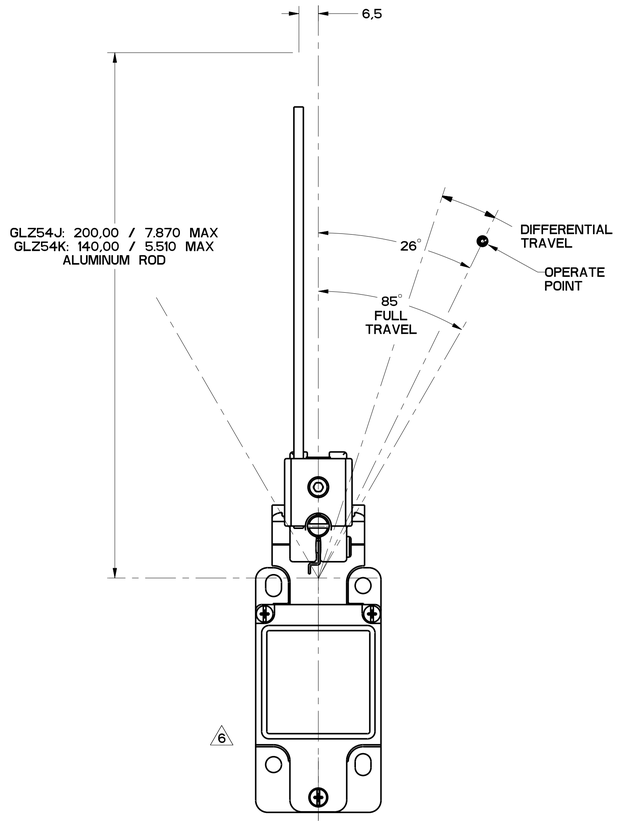

FIGURE 10

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

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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	TOL mm/s	DIM	TOL mm/s
NO PLACES	X /.06	X	X .8/.03
ONE PLACE	X.X .4/.016	X.X	X.XX .38/.015
TWO PLACES	X.XX .15/.006	X.XXX	X.XXX .13/.005
THREE PLACES			
ANGLES	±2°		

SI METRIC ☒ DESIGN UNITS ☐ US CUSTOMARY

WEIGHT

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

REVISIONS			
A	PR-21403	S. A. V.	28MAR96
B	CO-93769	KED	ENG038
C	0000401	GLW	2JUN03
D	0002986	RK	29JAN04
E	0017532	TPC	02DEC05

ISSUE 11 CHECK MDM

M GL SERIES CHART 2 PAGE 4 OF 8 RELEASE NO. PR-20782 REPLACES

DRAWING NUMBER

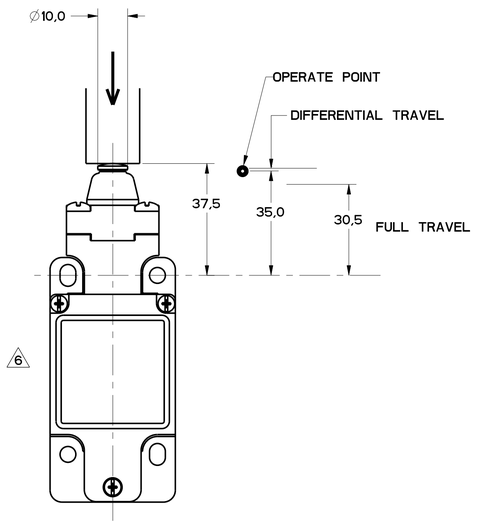

FIGURE 11

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

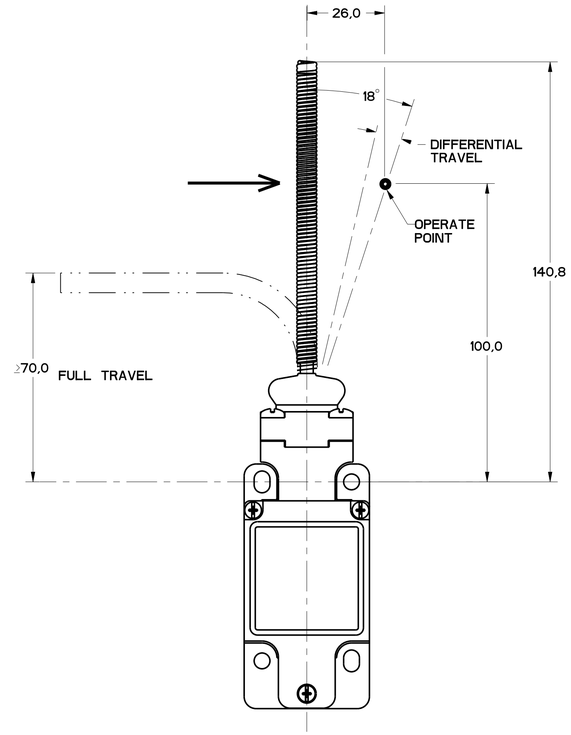

FIGURE 12

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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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 | DRAWING NUMBER 11 | ISSUE | M/M | CHECK
REVISIONS
A TCO 78092 GLH 20 SEP 94
B ECO-93789 RKO 4NOV98
C 0000401 GLH 9JUN03
D 0002986 RS 20JAN04
E 0017532 TCO 02DEC05
02DEC05 | RJ | CHECK
5JAN94 | MAM | CHECK
10DEC93 | WLS | DRAWN | PTC/CAD

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 Zb	50.5 48 46** 43.5 21-22 >, 13-14 < 0.9 DIFFERENTIAL TRAVEL	16 / 3.6	27 / 6.0	0.1 / 3.9	1.0 / .04	250

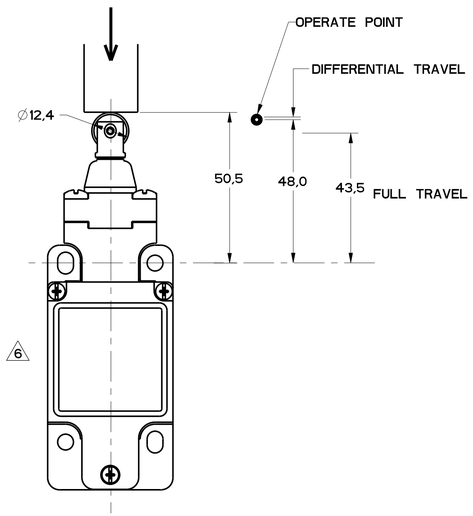

FIGURE 13A

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 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

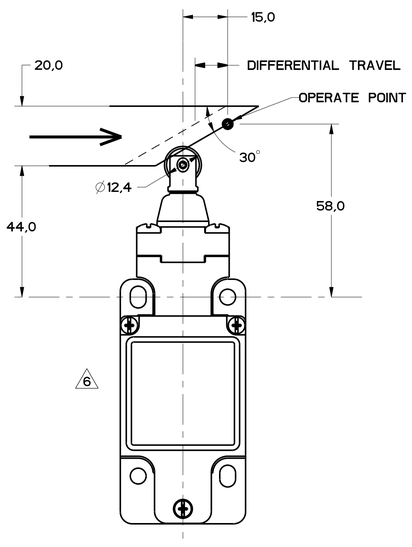

FIGURE 13B

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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			
ONE PLACE X.X	/.04	X.X	0.8/.03
TWO PLACES X.XX	0.4/.016	X.XX	0.38/.015
THREE PLACES X.XXX	0.15/.006	X.XXX	0.13/.005
ANGLES	±2		

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

WEIGHT

ANSI Y14.5M-1982 APPLIES

PTC/CAD

DRAWN	WLS	10DEC93	
CHECK	MAM	5JAN94	
CHECK		020EC05	
CHECK	RJ	2JUN03	
CHECK		20JAN04	
CHECK	MDM	02DEC05	

REVISIONS

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

ISSUE 11

M GL SERIES CHART 2

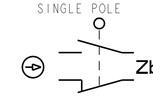
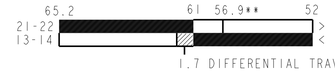
PAGE 6 OF 8

RELEASE NO. PR-20182

DRAWING NUMBER

REPLACES

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 		9.5 / 2.1	12 / 2.7	0.17 / 6.7	1.7 / .067	250

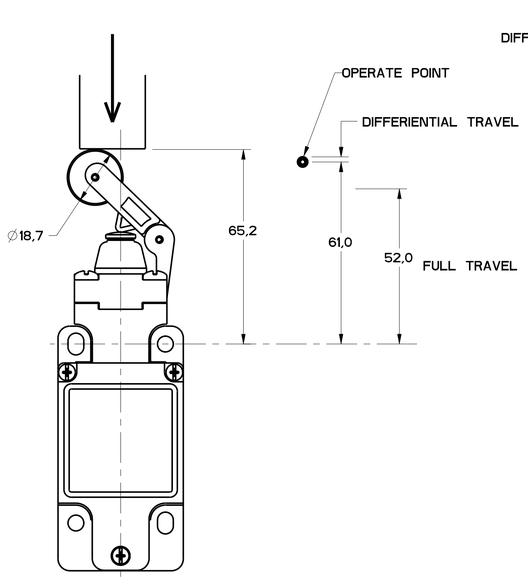


FIGURE 14A

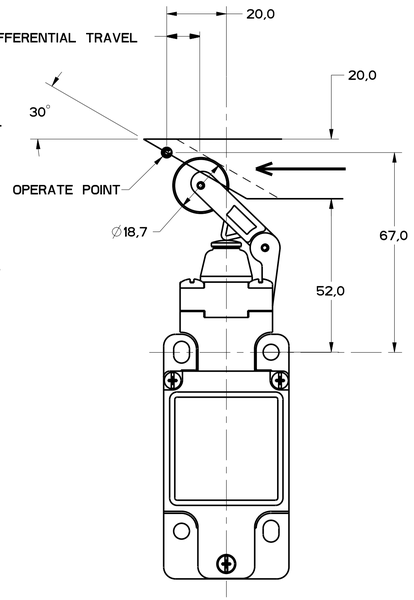
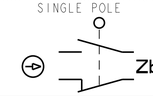
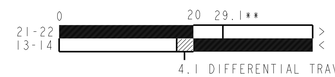


FIGURE 14B

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 mm/S / in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**02D	SNAP - ACTION CONTACTS SINGLE POLE 		5.5 / 1.2	7.0 / 1.6	0.29 / 11.4	2.9 / .11	250

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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 ±

	SI mm	SI TOL. mm/±	US in	US TOL. in/±
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	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 | PAGE 7 OF 8 | RELEASE NO. PR-20782 | REPLACES

DRAWING NUMBER 11 | ISSUE | MDM

REVISIONS

A	TAO 78092		02DEC05
B	GLW 20 SEP 94 CO-93389		
C	KED 4NOV98 0000401		RJ
D	GLW 3JUN03 0002986		
E	RS 30JAN04 0017532	CHECK	
	TAO 02DEC05		5JAN94

PTC/CAD | DRAWN WLS | 10DEC93 | CHECK MAM

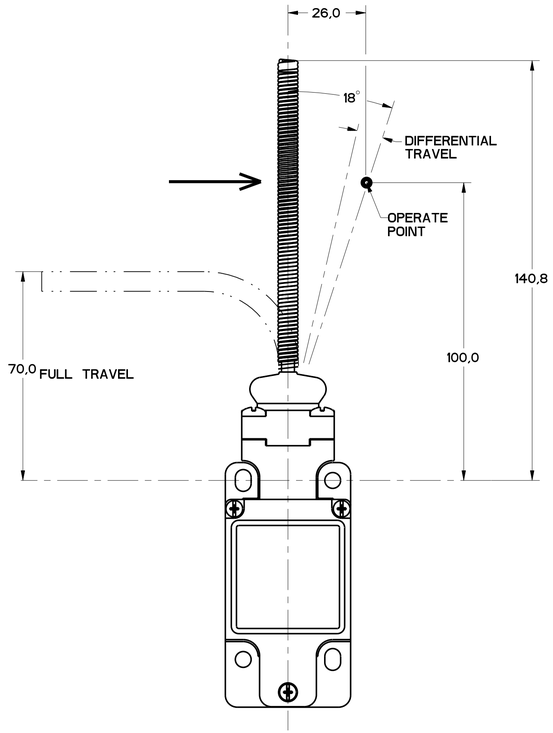


FIGURE 15

FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION

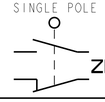
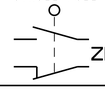
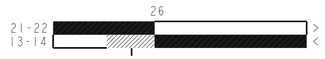
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TRAVELS AND RELATED TERMINALS — CONTACT CLOSED, CONTACT OPEN, DIFFERENTIAL TRAVEL	MAXIMUM OPERATING TORQUE N·m / LB-IN	MAXIMUM DISCONNECT TORQUE N·m / LB-IN	MAX OPERATE DEGREE/S	MIN OPERATE VELOCITY DEGREE/S	MAX OPERATE RATE CYCLES/MIN
GL**02K	SNAP - ACTION CONTACTS SINGLE POLE 		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, 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

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SWITCH, ENCLOSED

CATALOG LISTING
GL SERIES CHART 2

THIRD ANGLE PROJECTION

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	DIM mm	TOL mm/±	DIM in	TOL in/±
NO PLACES	X	1/.04	X.X	0.4/.03
ONE PLACE	X.X	0.4/.016	X.XX	0.381/.015
TWO PLACES	X.XX	0.13/.005	X.XXX	0.127/.005
THREE PLACES				
ANGLES		±2°		

SI METRIC [X] US CUSTOMARY [ ]

DESIGN UNITS

WEIGHT

PTC/CAD
DRAWN WLS 10 DEC 93
CHECK MAM 5JAN94
CHECK RJ 02DEC05
CHECK MDM
ISSUE 11
DRAWING NUMBER M GL SERIES CHART 2
RELEASE NO. PR-20782
PAGE 8 OF 8
REPLACES

REVISIONS
A TSO 78092 GLW 20 SEP 94
B CO-93789 WED ANDVAN
C 0000401 GLW 3JUN03
D 0002986 BS 30JAN04
E 0017532 TSO 02DEC05

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