

# **Honeywell Sensing and Control**

# GLAA01C



Global Limit Switches Series GLS: Top Roller Plunger, 1NC 1NO SPDT Snap Action, 0.5 in - 14NPT conduit

Actual product appearance may vary.

### **Features**

- Designed to IEC standard for worldwide applications
- UL, CSA, and CE
- International conduit sizes
- Direct PLC interface compatible (two circuit)
- Modular construction reduces maintenance parts costs
- Designed for ease of installation
- Variety of basic switch versions
- Wide choice of actuators

## **Potential Applications**

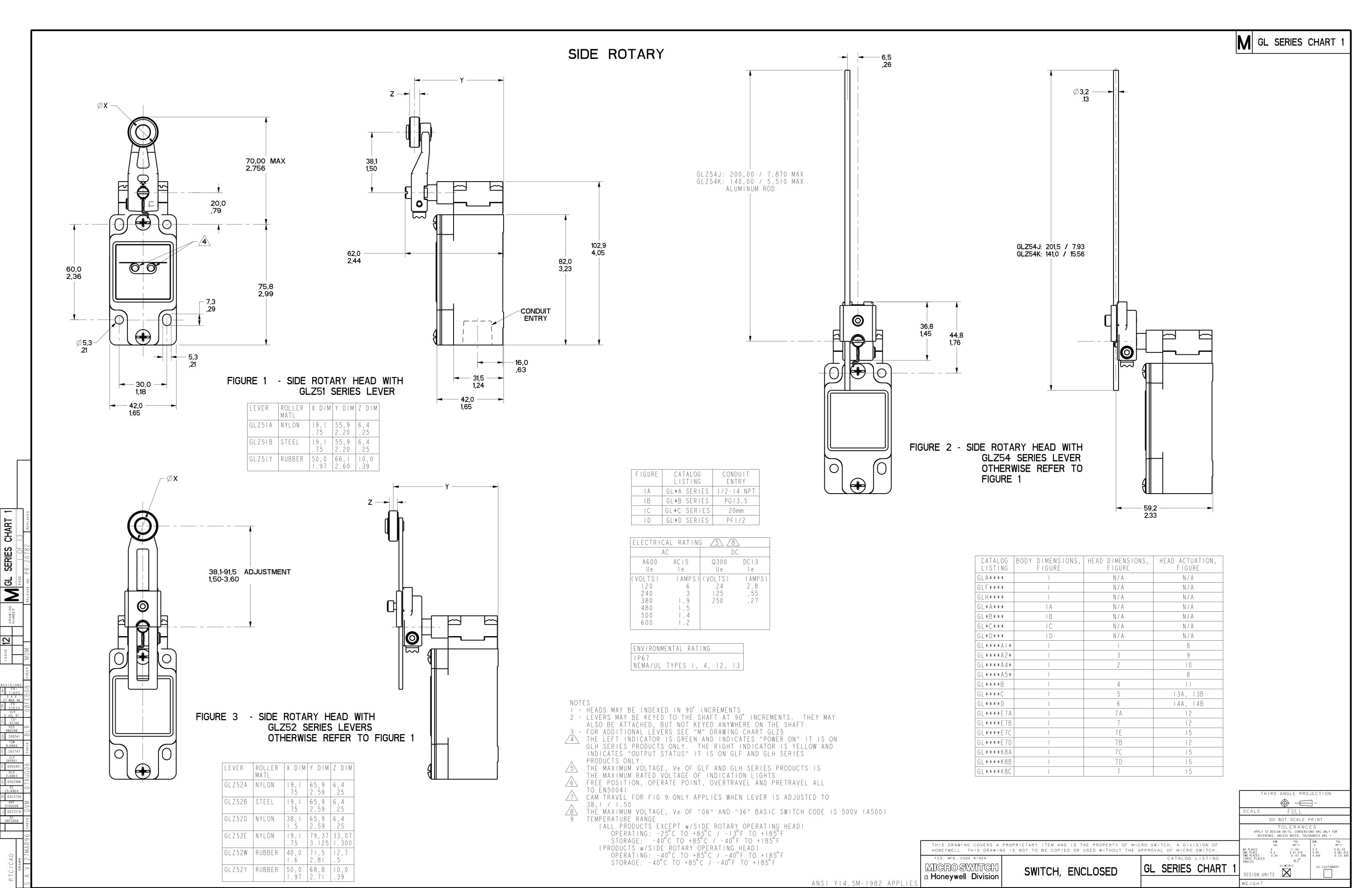
- Machine tools: metal fabrication equipment, presses, transfer lines and special machinery
- Material handling equipment: conveyors, elevators, cranes, and hoists
- Packaging machinery and process equipment
- Textile machinery
- Construction machinery and equipment, vehicles and lift trucks

#### Description

The GLS series limit switches are specifically designed for world-wide applications and are supported by Honeywell global resources for sale and after sale service.

Product Specifications						
Availability	Global					
Operating Force (O.F.)	16,0 N [3.60 lb]					
Pretravel (P.T.)	2,5 mm [0.10 in]					
Overtravel (O.T.)	4,5 mm [0.18 in]					
Differential Travel (D.T.)	0,9 mm [0.035 in]					
Product Type	EN50041/47 Global Limit Switch					
Actuator	Top Roller Plunger					
Lever Style	None					
Circuitry	1NC 1NO SPDT Snap Action					
Ampere Rating	10 A (Thermal)					
Supply Voltage	600 Vac and 250 Vdc max.					
Housing Material	Zinc Die-Cast					

Termination Type	0.5 in - 14NPT conduit
Housing Type	EN 50041
Series Name	GLS DIN
Shock	50 g per IEC 68-2-27c (w/o Actuator)
Vibration	10 g per IEC 68-2-6 (w/o Actuator)
Sealing	NEMA 1, 4, 12, 13 IP67
Approvals	UL, CSA, CE
CSA File #	LR94369-3
UL File #	E37138 & E157416
Mechanical Life	15 million
Operating Temperature Range	-25 °C to 85 °C [-13 °F to 185 °F]
Agency Approvals and Standards	IEC 947-5-1, EN60947-5-1, UL508
UNSPSC Code	302119
UNSPSC Commodity	302119 Switches and controls and relays
Sealed	Industrial
Operating Position (O.P.)	48,0 mm [1.89 in]



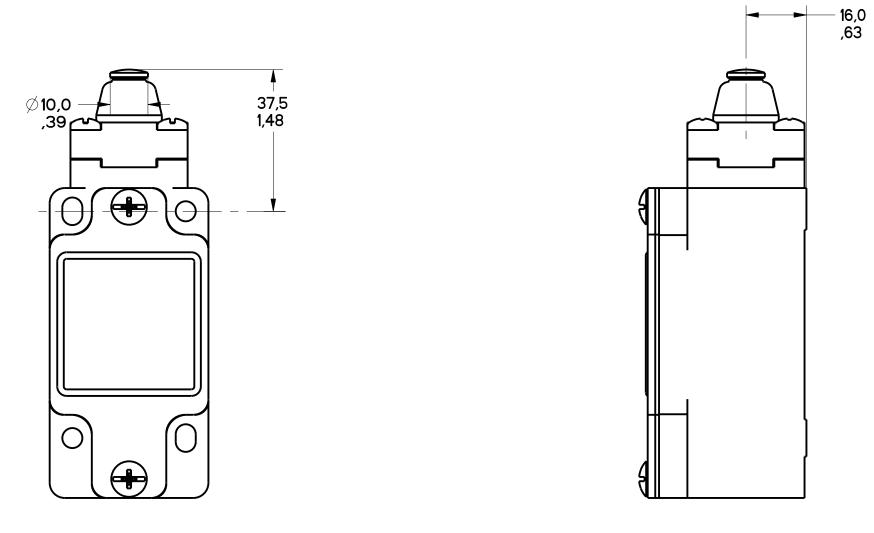
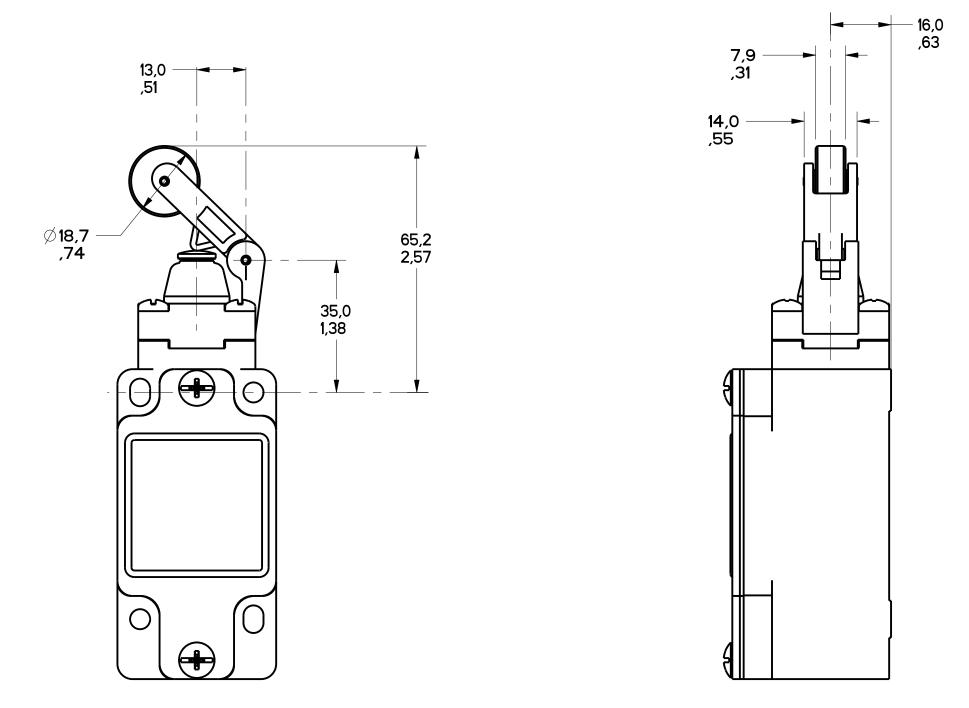


FIGURE 4 - TOP PIN PLUNGER HEAD OTHERWISE REFER TO FIGURE 1



GL SERIES CHART 1

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

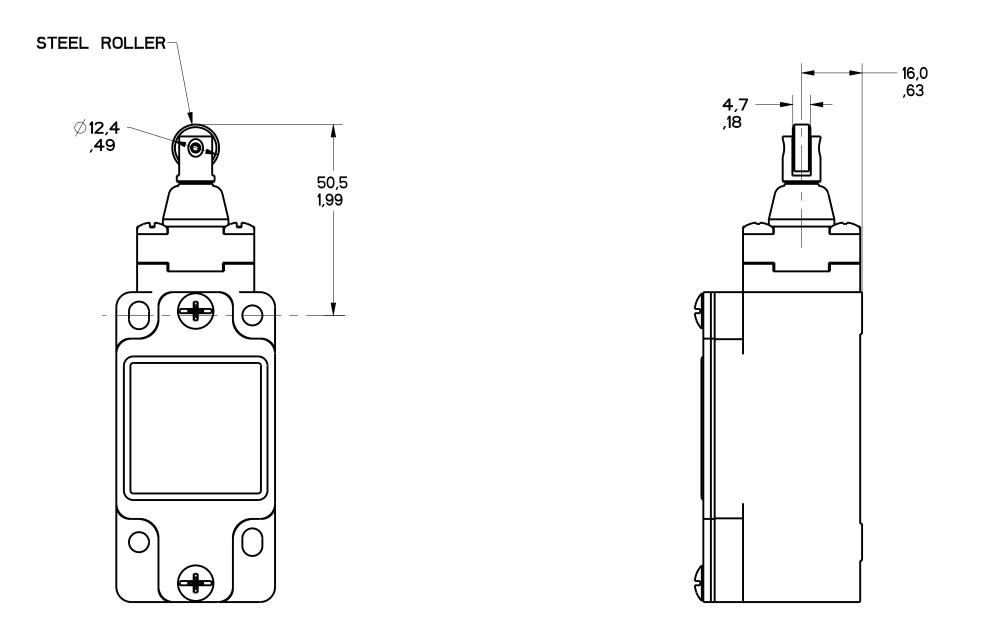


FIGURE 5 - TOP ROLLER PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

ANSI YI4.<u>5M-1982 APPLIES</u>

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLE RANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED, TOLERANCE SARE 1

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FIGURE 13A, ROLLER PLUNGER HEAD, PIN ACTUATION									
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL TR <b></b>	AVELS AND RELATED CONTACT OPEN,	TERMINALS - CONTACT CLOSED NING TO LEC 947-5-	MAXIMUM OPERATING IFORCE N LB	MAXIMUM DISCONNECT FORCE <u>N</u> LB	MAX OPERATE VEL <u>M/S</u> in/S	MIN OPERATE VEL <u>mm/S</u> in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**0 C GL**07C	SNAP - ACTION CONTACTS SINGLE POLE  Zb	<u> </u>	48 46**  0.9 DIFFERENTIAL	43.5 > < TRAVEL	<u>    6</u>   3 . 6	<u>27</u> 6.0	0.1	<u>1.0</u> .04	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE  O  Zb	50.5 21-22 13-14	48**	43.5	<u>    6</u>   3 . 6	<u>27</u> 6.0	<u>0.1</u> 3.9	<u>  . 0</u> . 04	250
G L * * 0 4 C G L * * 3 4 C	SLOW ACTING MAKE BEFORE BREAK  O Zb	50.5 21-22 13-14	47**	43.5	<u>    6</u>   3 . 6	<u>27</u> 6.0	<u>0.1</u> 3.9	<u>1.0</u> .04	250
GL**05C GL**35C	SLOW ACTING  O  ZX	50.5  3- 4  23-24	47	43.5	<u>  6</u>   3.6	<u>27</u> 6.0	0.1	<u>    . 0</u> . 0 4	250
GL**06C GL**36C	SLOW ACTING  O  2Y	50.5   - 2  2 -22	48**	43.5	<u>    6</u>   3 . 6	<u>27</u> 6.0	<u>0.1</u> 3.9	<u>  . 0</u> . 0 4	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE	•	48 46**  0.9 DIFFERENTIAL	43.5 > < TRAVEL	<u>    6</u>   3 . 6	<u>37</u> 8.2	0.1	<u>1.0</u> .04	250
GL**2 C GL**25C GL**28C GL**3 C	STEP SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	50.5   - 2   3- 4   2 -22   23-24	48 46.8  .8 DIFFERE .8 DIFFERENTIAL T	43.5 > < >> < NTIAL TRAVEL	<u>    6</u>   3 . 6	N / A	0.1	<u>  . 0</u> . 0 4	250

DRAWING MGL SERIES CHART 1

							M GL	SERIES (	CHART 1
FIGURE 13B, TOP ROLLER PLUNGER HEAD, CAM ACTUATION PER EN50041									
C A T A L O G L I S T I N G	CONTACT BLOCK DIAGRAM	NOMINAL CONTACT CLOS DIFFERENTIAL TRA	TRAVELS AND RELATED TERMING OPEN -	NALS CONTACT CLOSEI TO IEC 947-5	MAXIMUM OPERATING - IFORCE N LB	MAXIMUM DISCONNECT FORCE N LB	MAX OPERATE VEL <u>M/S</u> in/S	MIN OPERATE VEL <u>mm/S</u> in/S	MAX OPERATE FREQUENCY OPS/MIN
GL**0 C GL**07C	SNAP - ACTION CONTACTS SINGLE POLE   Zb	2   - 2 2   3 -   4	5  8.3** 	> < AL TRAVEL	9.3	<u>  5 . 6</u> 3 . 5	<u>0.17</u> 6.7	<u>1.7</u> .067	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE  O Zb	0 2   - 22   3 -   4	5 * *   6 . 8	> <	9.3	<u>  5 . 6</u> 3 . 5	<u>0.17</u> 6.7	<u>1.7</u> .067	250
G L * * 0 4 C G L * * 3 4 C	SLOW ACTING MAKE BEFORE BREAK  O Zb	0 2   - 22   3 -   4	6.8** 	> <	9.3	<u>  5.6</u> 3.5	<u>0.17</u> 6.7	<u>1.7</u> .067	250
GL**05C GL**35C	SLOW ACTING  O  2X	13-14 23-24	16.8	> <	9.3	<u>  5.6</u> 3.5	<u>0.17</u> 6.7	<u>1.7</u> .067	250
GL**06C GL**36C	SLOW ACTING  O  2Y	0 21-22 13-14	15**	> <	9.3	<u>15.6</u> 3.5	<u>0.17</u> 6.7	<u>1.7</u> .067	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE	0   - 2, 2 -22  3- 4, 23-24	5  8.3** 	> < IAL TRAVEL	9.3	<u>2 I . 4</u> 4 . 8	<u>0.17</u> 6.7	<u>1.7</u> .067	250
GL**25C GL**28C	STEP I SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	0     -   2   3 -   4     2   - 2 2   2 3 - 2 4	1.4 DIFFERENTIAL TRAVEL	>	9.3	N / A	<u>0.17</u> 6.7	<u>1.7</u> .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:

DIM. TOL

MMM MM/1n

NO PLACES X, 17.04

ONE PLACE X, 0.47.016

TWO PLACES X, 0.47.016

TWO PLACES X, 0.47.016

THREE PLACES

ANGLES

SI METRIC

US CUSTOMARY

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CATALOG LISTING

BWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

ANSI YI4.5M-1982 APPLIES