

Honeywell Sensing and Control



GLAA20A2B



Global Limit Switches Series GLS: Side Rotary With Roller - Adjustable, 2NC 2NO DPDT 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

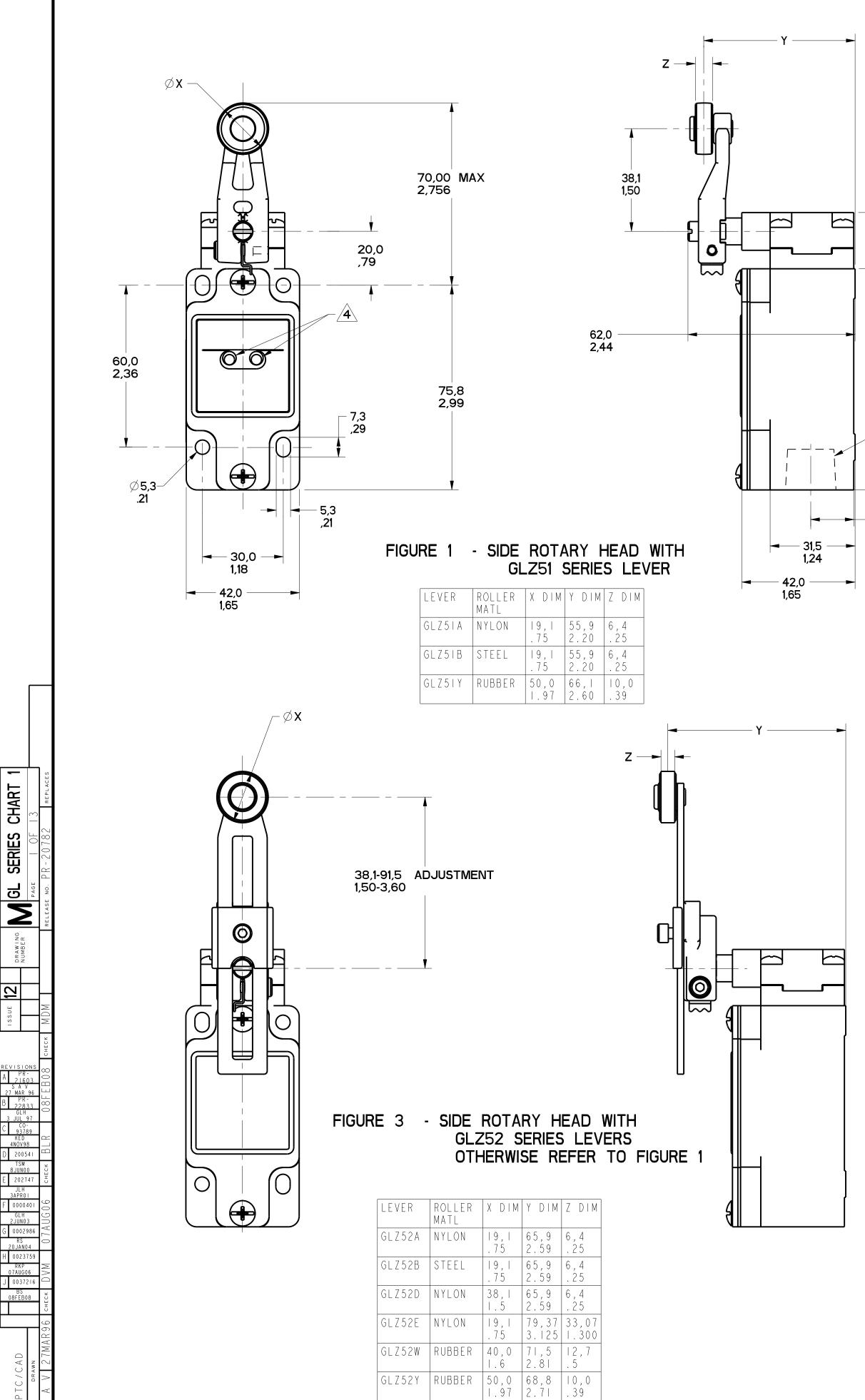
- **Potential Applications**
- Machine tools: metal fabrication equipment, presses, transfer lines and special machinery
- Material handling equipment: conveyors, elevators, cranes, and hoists
- Packaging machinery and process equipment
- Textile machinery
- Construction machinery and
- equipment, vehicles 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.)	0,330 N m [2.90 in lb]					
Pretravel (P.T.)	26°					
Overtravel (O.T.)	59°					
Differential Travel (D.T.)	12°					
Product Type	EN50041/47 Global Limit Switch					
Actuator	Side Rotary					
Lever Style	Roller - Adjustable					
Circuitry	2NC 2NO DPDT Snap Action					
Ampere Rating	10 A (Thermal)					
Supply Voltage	600 Vac and 250 Vdc max.					
Housing Material	Zinc Die-Cast					

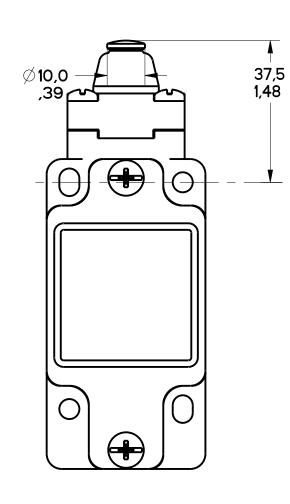
Termination Type	0.5 in - 14NPT conduit
Housing Type	EN 50041
Series Name	GLS DIN
Shock	50 g per IEC 68-2-27c (w/o Actuator)
Vibration	10 g per IEC 68-2-6 (w/o Actuator)
Sealing	NEMA 1, 4, 12, 13 IP67
Approvals	UL, CSA, CE
CSA File #	LR94369-3
UL File #	E37138 & E157416
Mechanical Life	15 million
Operating Temperature Range	-25 °C to 85 °C [-13 °F to 185 °F]
Comment	Roller Material: Steel
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.)	26°



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SIDE ROTARY - 6,5 ,26 GLZ54J: 200,00 / 7.870 MAX GLZ54K: 140,00 / 5.510 MAX ALUMINUM ROD 102,9 4,05 82,0 3,23 ENTRY 36,8 1,45 44,8 1,76 - 16,0 ,63 FIGURE 2 - SIDE RO GLZ5 OTHE FIGUR OCATALOG LISTING CONDUIT ENTRY FIGURE IA GL*A SERIES 1/2-14 NPT IB GL*B SERIES PGI3.5 IC |GL*C SERIES| 20mm ID GL*D SERIES PFI/2 ELECTRICAL RATING $\sqrt{5}$ $\sqrt{8}$ AC DC CATALO Q300 DCI3 A600 ACI5 LISTING Uе Uе lе lе GLA**** VOLTS) (AMPS) (VOLTS) (AMPS) 2.8 120 24 GLF**** 125 250 . 55 240 - 3 GLH**** 380 1.9 GL * A * * * 480 Ι.5 500 600 1.4 i∟*B*** Ι.2 j L * * * * A | ENVIRONMENTAL RATING GL***A2 IP67 NEMA/UL TYPES I, 4, 12, 13 ĴL * * * * A ⊿ GL * * * * A (i L * * * * B j L * * * * C NOTES i L * * * * D I - HEADS MAY BE INDEXED IN 90' INCREMENTS i L * * * * E 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 L * * * * E j L * * * * E j L * * * * E GLH SERIES PRODUCTS ONLY. THE RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLF AND GLH SERIES GL * * * * K { PRODUCTS ONLY. GL * * * * K 8 THE MAXIMUM VOLTAGE, Ve OF GLF AND GLH SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS 5GL****K8 FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL 6TO EN50041 $\overline{\land}$ CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38,1 / 1.50 8THE MAXIMUM VOLTAGE, Ve OF "06" AND "36" BASIC SWITCH CODE IS 500V (A500) 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 THIS DRAWING COVERS A PF HONEYWELL. THIS DRAWING (PRODUCTS w/SIDE ROTARY OPERATING HEAD) OPERATING: -40°C TO +85°C / -40°F TO +185°F FED. MFG. CODE 91929 STORAGE: -40°C TO +85°C / -40°F TO +185°F MICRO SWITCH a Honeywell Division ANSI YI4.5M-1982 APPLIES

				M	GL	SERIES	CHART	1
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	Ø3	,2 — -						
GL	.Z54J: 201,5 / 7.93							
GL	.Z54K: 141,0 / 15.56							
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	V	5						
54 SI	(HEAD WITH ERIES LEVER							
erwis Re 1	E REFER TO	4						
			9,2 					
		2	.33					
OG BO	DY DIMENSIONS.	HEAD DIMENSIONS,	, HEAD ACTUATION,					
NG *	DY DIMENSIONS, FIGURE	FIGURE N/A N/A	FIGURE N/A N/A					
* *	 A	N / A N / A N / A	N / A N / A N / A					
*		N / A N / A	N / A N / A					
* A * A 2 *	D 	N / A 3	N / A 8 9					
A 4 * A 5 *		2	8					
B C D	 	4 5 6	I 3A, I 3B I 4A, I 4B					
E 7 A E 7 B		7 A 7	2 2					
E 7 C E 7 D K 8 A		7E 7B 7C	5 2 5					
K8B K8C		7 D 7	I 5 I 5					
					ТНІ	RD ANGLE PR	OJECTION	
				SCAL		FULL O NOT SCALE	PRINT	
			SWITCH. A DIVISION OF	NO PLAC	REFERENC	TOLERAN ESIGN UNITS. CONVER E. UNLESS NOTED, TO DIM. TOL mm mm/in (1/.04	SIONS ARE ONLY FOR LERANCES ARE ± DIN. T ii m	「OL m∕in
NG IS NO			CATALOG LISTING	ONE PLAC TWO PLAC THREE F ANGLES	CE)	x, x 0.4/.016 x, xx 0.15/.006 ±2° si metric	x.xxx 0.	8/.03 .38/.015 .13/.005
1	SWITCH, ENG				GN UNIT	s 🗙	US CUSTOMAR	(1



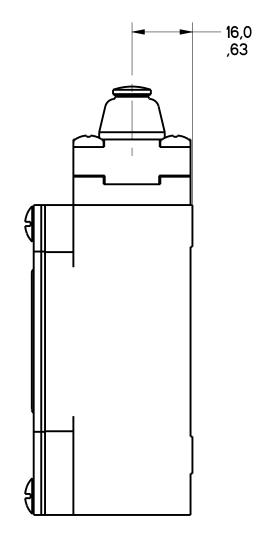
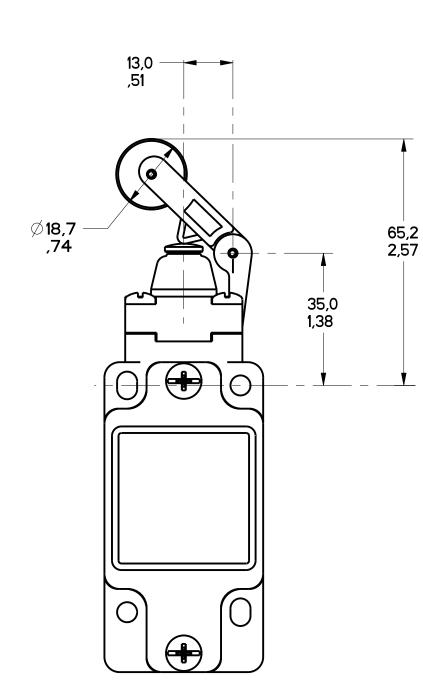


FIGURE 4 - TOP PIN PLUNGER HEAD OTHERWISE REFER TO FIGURE 1



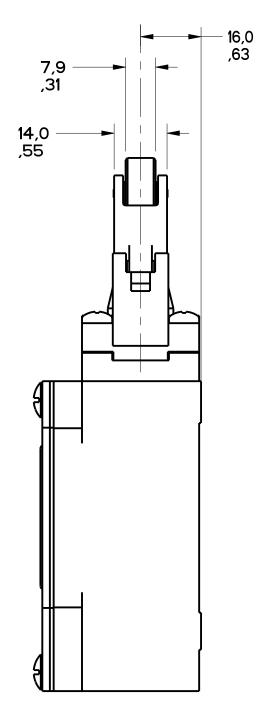
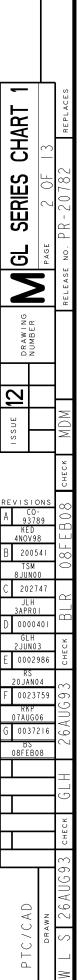


FIGURE 6 - TOP LEVER HEAD, OTHERWISE REFER TO FIGURE 1



STEEL ROLLER-

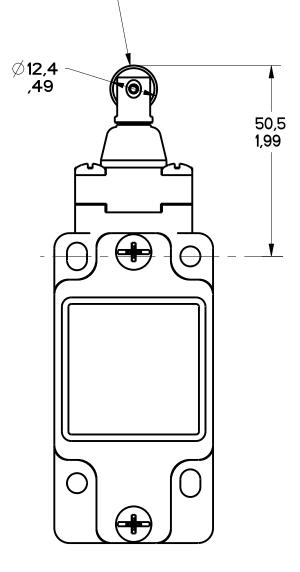
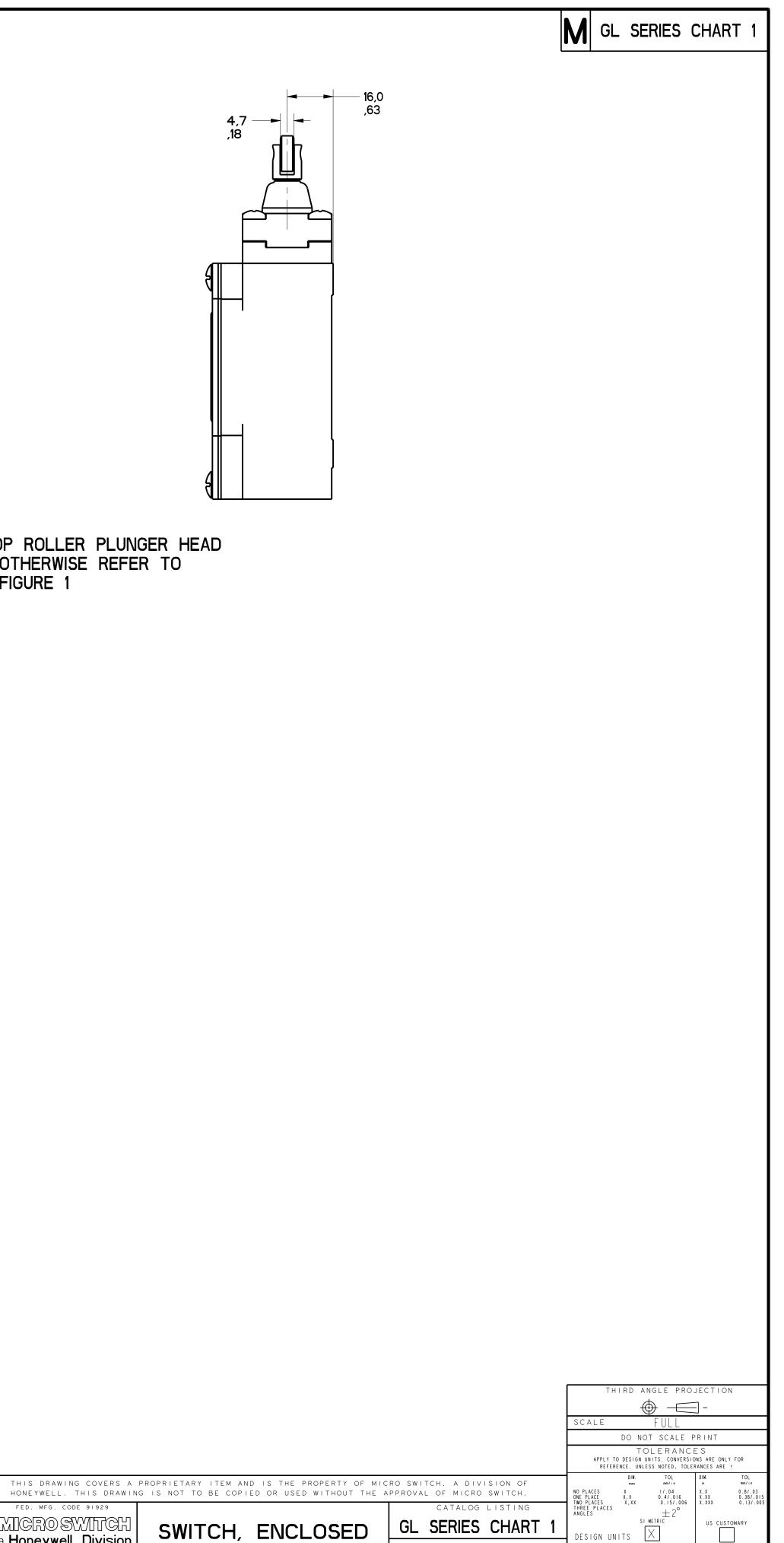


FIGURE 5 - TOP ROLLER PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

FED. MFG. CODE 91929 MICROSWITCH a Honeywell Division



WEIGHT

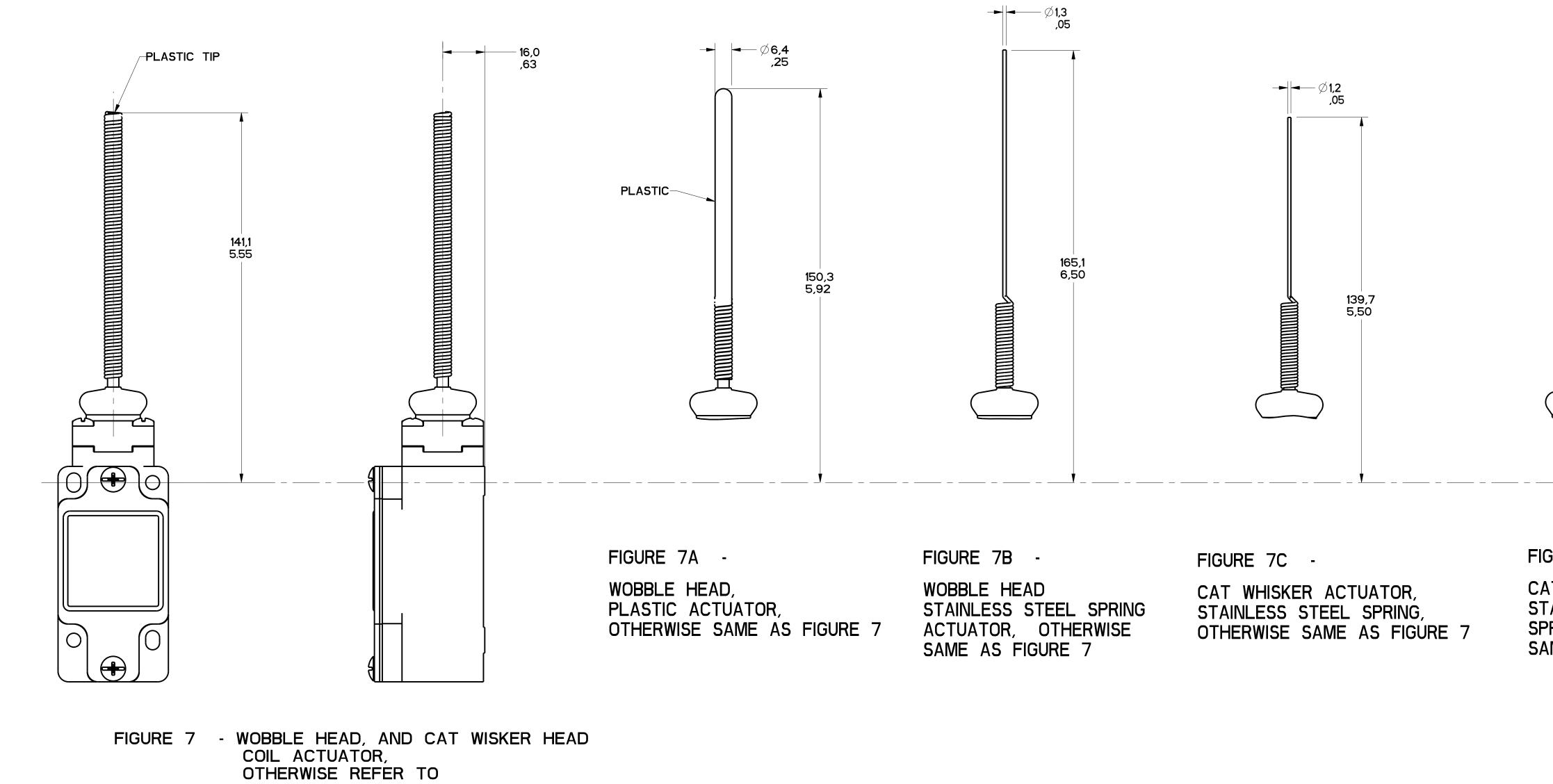
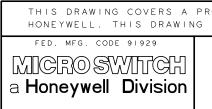


FIGURE 1

DRAWING CLARES CHART 1 NUMBER PAGE 3 OF 13 PAGE 3 OF 13



ANSI YI4.5M-1982 APPLIES

GL SERIES CHART 1 → Ø1,2 ,05 CABLE— 190,5 7,50 153,5 6,04

FIGURE 7D -

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

FIGURE 7E -

CABLE WOBBLE ACTUATOR, OTHERWISE SAME AS FIGURE 7

SWITCH, ENCLOSED	GL SERIES	CHART	1	ANGLES		METRIC	us cus	TOMARY
		LIGIINO		ANGLES		±2°		
IS NOT TO BE COPIED OR USED WITHOUT THE AP	CATALOG			ONE PLACE TWO PLACES THREE PLACES	х, х х, хх	0.4/.016 0.15/.006	x. xx x. xxx	0.8/.03 0.38/.015 0.13/.005
ROPRIETARY ITEM AND IS THE PROPERTY OF MICR				NO PLACES	DIM. mm	TOL mm/in I/.04	DIM. 10 X.X	TOL mm/in
					DESIGN U	DLERANCE INITS. CONVERSIC ESS NOTED, TOLEF	NS ARE ONL	
						T SCALE P		
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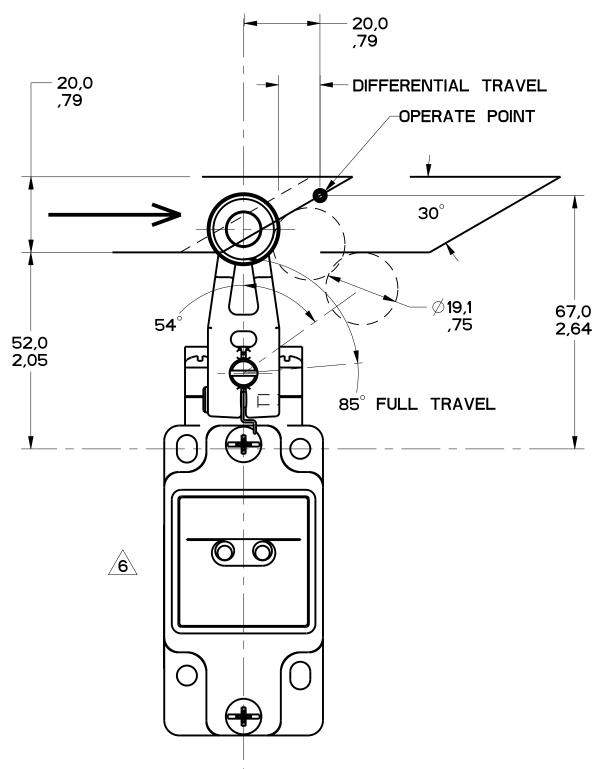


FIGURE 8



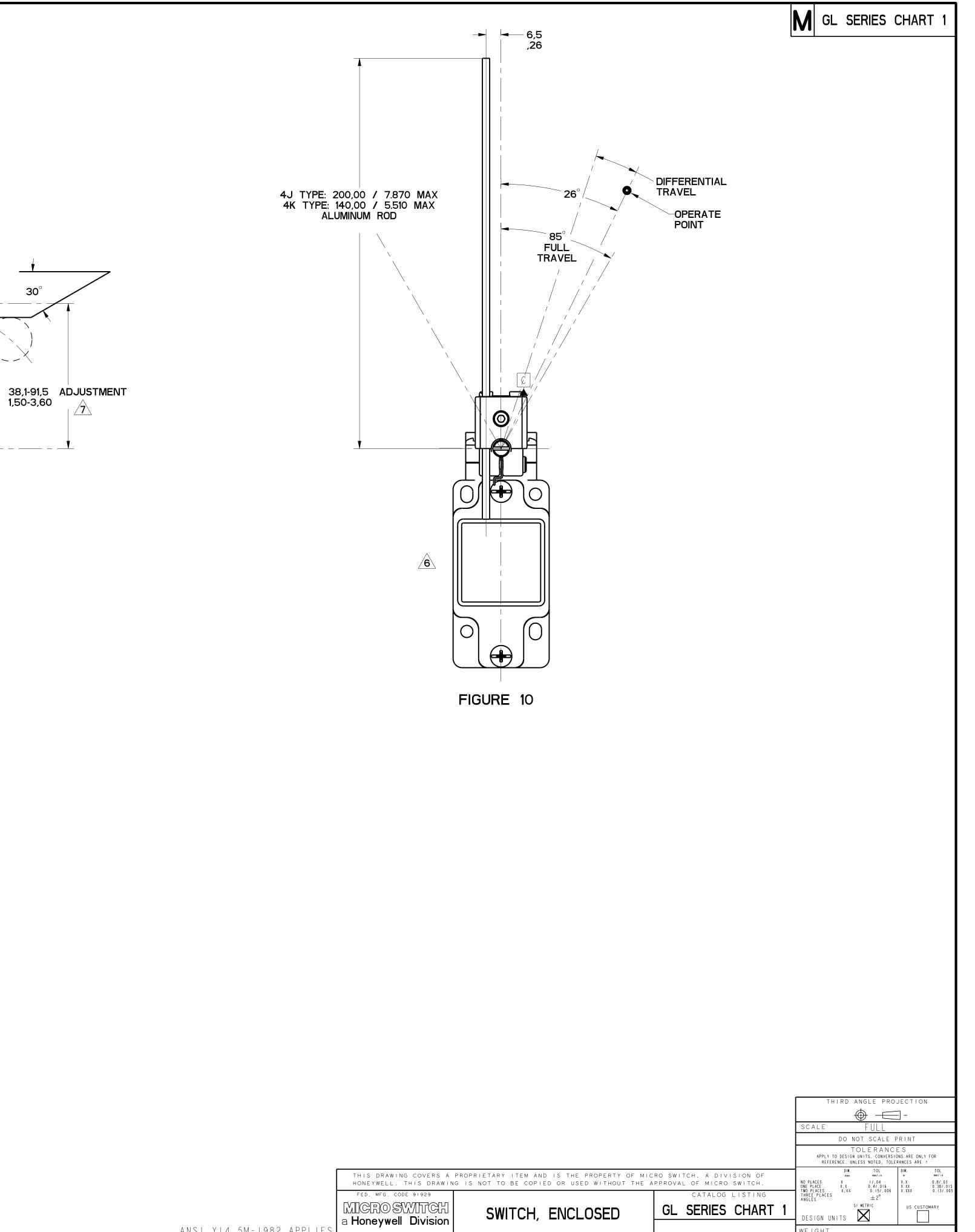


FIGURE 9

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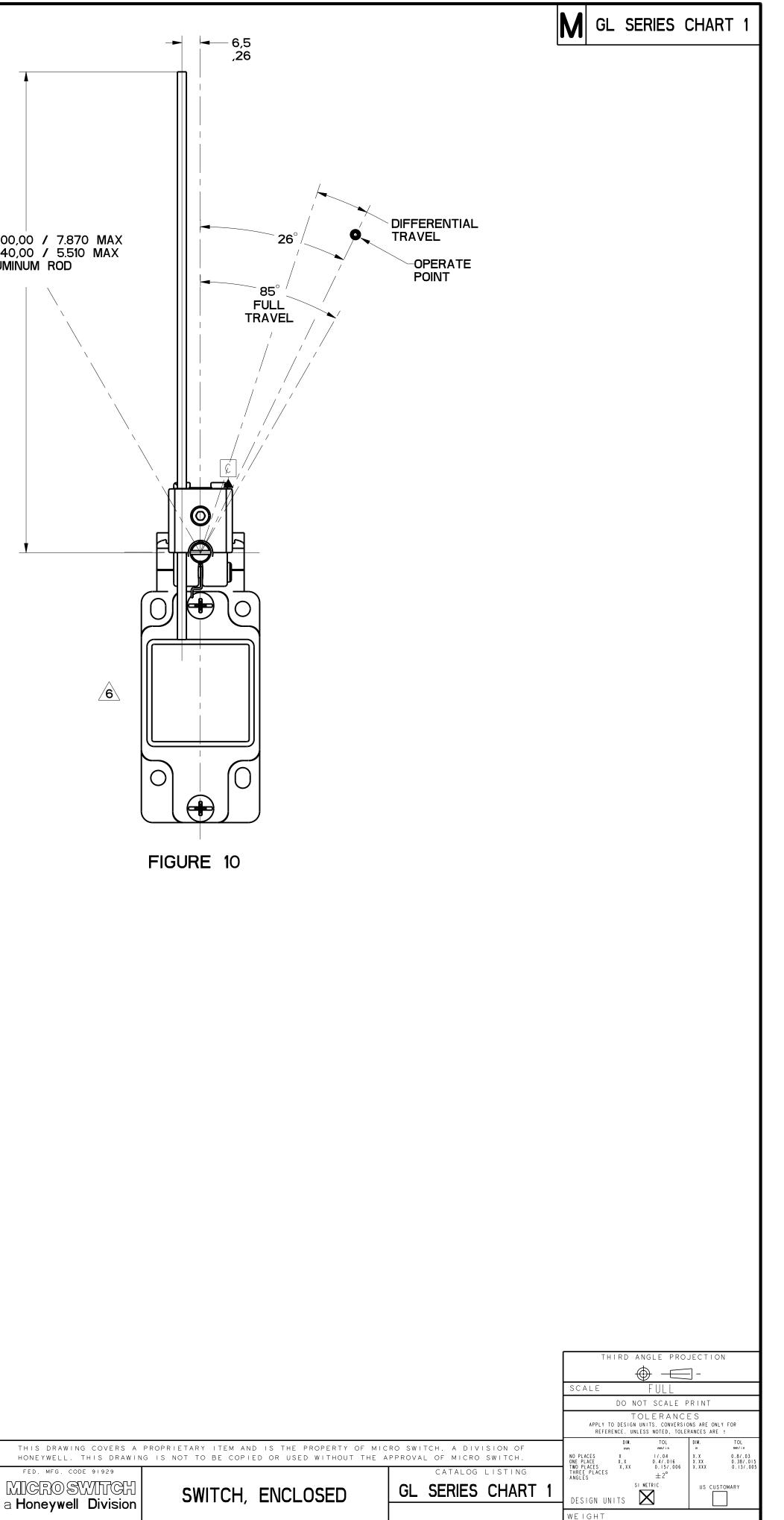
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	FIGURES	8, 9, 10 SI	DE ROTARY H	EAD, ANG	ULAR A		N		
CATALOG LISTING	CONTACT BLOCK DIAGRAM	NOMINAL - Contact closi Differential trav	TRAVELS AND RELATED TI ED, CONTACT OPEN, Z /EL, ** POSITIVE OPENI	ERMINALS ZZZ - CONTACT CLOSED NG TO IEC 947-5	MAXIMUM OPERATING TORQUE <u>N-m</u> LB-IN	MAXIMUM DISCONNECT TORQUE <u>N-m</u> LB-IN	MAX OPERATE DEGREE/S	MIN OPERATE DEGREE/S	MAX OPERATE FREQUENCY OPS/MIN
GL**0 A GL**07A	SNAP - ACTION CONTACTS SINGLE POLE	2 - 2 2 3 - 4	26° 55**° ///// I2° DIFFERENTIAL TRA	85° > < AVEL	<u>. 330</u> 2.9	<u>. 385</u> 3.4	1290	3	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE O I Zb	2 - 2 2 3 - 4	26**° 	8.5°	<u>. 330</u> 2.9	<u>. 385</u> 3.4	1290	3	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK O I Zb	2 - 2 2 3 - 4	38**° 26°	85°	<u>.330</u> 2.9	<u>.400</u> 3.5	1290	3	250
GL**05A GL**35A	SLOW ACTING	3 - 4 2 3 - 2 4	38°	85°	<u>. 330</u> 2.9	<u>. 385</u> 3.4	1290	3	250
GL**06A GL**36A	SLOW ACTING	- 2 2 -22	26**°	85°	<u>. 330</u> 2.9	<u>. 385</u> 3. 4	1290	3	250
GL**20A GL**22A GL**24A GL**32A	SNAP ACTION CONTACTS DOUBLE POLE	- 2, 2 -22 3- 4, 23-24	26° 55**° ///// I2° DIFFERENTIAL TRA	85° > < AVEL	<u>. 330</u> 2.9	<u>. 385</u> 3.4	1290	3	250
GL * * 2 A GL * * 2 5 A GL * * 2 8 A GL * * 3 A	STEP I SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	- 2 3 - 4 2 - 2 2 2 3 - 2 4	27 42 27 8 DIFFERENTI 8 DIFFERENTIAL TRAV		<u>. 330</u> 2.9	N / A	1290	3	250



								M GL	SERIES (CHART 1
	SIDE ROTARY	HEAD, CAM	ACTUATION	PER EN	15004	1, FIGL	JRES 8	AND 9)	
CATALOG LISTING	CONTACT BLOCK DIAGRAM	- CONTACT CLOSE	TRAVELS AND RELATED D, CONTACT OPEN, EL, ** POSITIVE OPE DIMENSIONS IN mm	ENING TO LEC	CLOSED O	MAXIMUM PERATING DRCE <u>N</u> 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 FREQUENC OPS/MIN
GL**0 A GL**07A	SNAP - ACTION CONTACTS SINGLE POLE	0 2 - 2 2 3 - 4	20 56** I 2 DIFFERENTIAL T	>		<u>9.7</u> 2.2	$\frac{11.4}{2.6}$	<u>. 85</u> 33.5	<u>8.5</u> .33	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE	0 2 - 2 2 3 - 4	20** 32			<u>9.7</u> 2.2	<u> .4</u> 2.6	<u>.85</u> 33.5	<u>8.5</u> .33	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK	2 - 2 2 3 - 4	32			<u>9.7</u> 2.2	$\frac{11.4}{2.6}$	<u>.85</u> 33.5	<u>8.5</u> .33	250
GL**05A GL**35A	SLOW ACTING	0 3 - 4 2 3 - 2 4	32°	85°		<u>9.7</u> 2.2	<u> .4</u> 2.6	<u>.85</u> 33.5	<u>8.5</u> .33	250
GL**06A GL**36A	SLOW ACTING	0	20**			<u>9.7</u> 2.2	$\frac{11.4}{2.6}$	<u>.85</u> 33.5	<u>8.5</u> .33	250
GL * * 20 A GL * * 22 A GL * * 24 A GL * * 32 A	SNAP ACTION CONTACTS DOUBLE POLE	N - 2, 2 -22 3- 4, 23-24	20 56** I2 DIFFERIENTIAL	>		<u>9.7</u> 2.2	<u> .8</u> 2.7	<u>.85</u> 33.5	<u>8.5</u> .33	250
SL * * 25A	TEP I SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL	21-22	20 38.5 20 38.5 8.5 DIFFEF 7 DIFFERENTIAL TR	RENTIAL TRAVE	ĒL	<u>9.7</u> 2.2	N / A	<u>.85</u> 33.5	<u>8.5</u> .33	250
GL**26J GL**27J GL**29J GL**30J	CCW SNAP ACTION CONTACTS DOUBLE POLE CW CENTER NEUTR	21-22	I6 8 DIFFERENTIAL 8 DIFFERENTIAL TRA			<u>9.7</u> 2.2	N / A	<u>.85</u> 33.5	<u>8.5</u> .33	250



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		SCALE	FULL	
			DO NOT SCALE	PRINT
			TOLERANC D DESIGN UNITS. CONVERS ENCE. UNLESS NOTED, TOL	IONS ARE ONLY FOR
ROPRIETARY ITEM AND IS THE PROPERTY OF MIC IS NOT TO BE COPIED OR USED WITHOUT THE A		NO PLACES ONE PLACE	DIM. TOL mm. mm/in X I/.04 X,X 0.4/.016	DIM. TOL in mm/in X.X 0.8/.03 X.XX 0.38/.015
	CATALOG LISTING	TWO PLACES THREE PLACES ANGLES	X,XX 0.15/.006	X.XXX 0.13/.005
SWITCH, ENCLOSED	GL SERIES CHART 1	DESIGN UN	SI METRIC	US CUSTOMARY
		WEIGHT		