



### GLAA01C



*Actual product appearance may vary.*

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

#### Features

- Designed to IEC standard for world-wide 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]



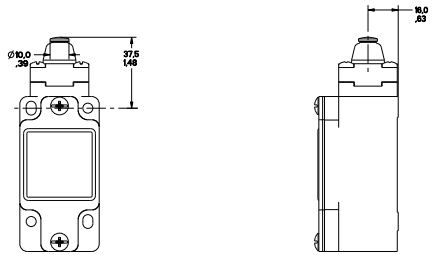


FIGURE 4 - TOP PIN PLUNGER HEAD  
OTHERWISE REFER TO  
FIGURE 1

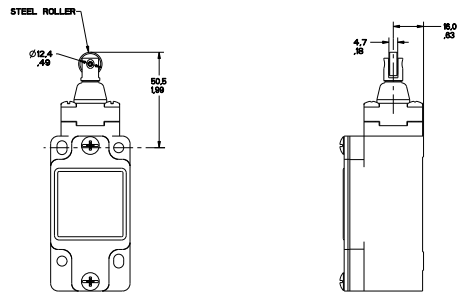


FIGURE 5 - TOP ROLLER PLUNGER HEAD  
OTHERWISE REFER TO  
FIGURE 1

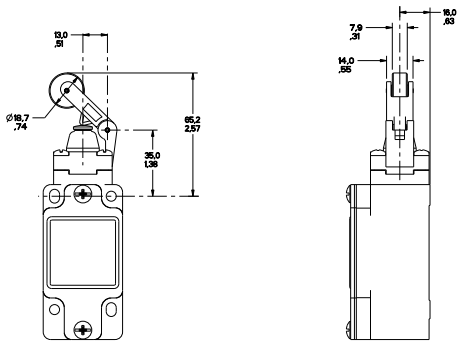


FIGURE 6 - TOP LEVER HEAD,  
OTHERWISE REFER TO  
FIGURE 1

PTC/CAD  
 MICROSWITCH  
 HONEYWELL DIVISION  
 1000 EAST 17TH AVENUE  
 DENVER, CO 80202  
 TEL: 303-733-1000  
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<b>MICROSWITCH</b> Honeywell Division	<b>SWITCH, ENCLOSED</b>
<b>GL SERIES CHART 1</b>	
TYPED ANGLE PROJECTION SCALE: FULL DO NOT SCALE PRINT TOLERANCES: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF	SHEET NO. 1 OF 1 DATE: 11/87 DRAWN BY: J.P. CHECKED BY: J.P. APPROVED BY: J.P. WEIGHT:

ANSI Y14.5M-1982 APPLIES

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 - LB	MAXIMUM DISCONNECT FORCE - LB	MAX OPERATE VEL - IN/S	MIN OPERATE VEL - IN/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01C GL**07C	SNAP - ACTION CONTACTS SINGLE POLE	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
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE	50.5 48** 43.5 21-22 13-14 47	16 3.6	27 6.0	0.1 3.9	1.0 .04	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK	50.5 47** 43.5 21-22 13-14 46	16 3.6	27 6.0	0.1 3.9	1.0 .04	250
GL**05C GL**35C	SLOW ACTING	50.5 47 43.5 13-14 23-24	16 3.6	27 6.0	0.1 3.9	1.0 .04	250
GL**06C GL**36C	SLOW ACTING	50.5 48** 43.5 11-12 21-22	16 3.6	27 6.0	0.1 3.9	1.0 .04	250
GL**20C GL**22C GL**24C GL**32C	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 3.9	1.0 .04	250
GL**21C GL**25C GL**28C GL**31C	SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL	50.5 48 46.8 43.5 11-12 13-14 21-22 23-24 .6 DIFFERENTIAL TRAVEL	16 3.6	N/A	0.1 3.9	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 OPEN, CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1	MAXIMUM OPERATING FORCE - LB	MAXIMUM DISCONNECT FORCE - LB	MAX OPERATE VEL - IN/S	MIN OPERATE VEL - IN/S	MAX OPERATE FREQUENCY OPS/MIN
GL**01C GL**07C	SNAP - ACTION CONTACTS SINGLE POLE	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 .061	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE	0 15** 21-22 13-14 16.8	9.3 2.1	15.6 3.5	0.17 6.7	1.7 .061	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK	0 16.8** 21-22 13-14 15	9.3 2.1	15.6 3.5	0.17 6.7	1.7 .061	250
GL**05C GL**35C	SLOW ACTING	0 16.8 13-14 23-24	9.3 2.1	15.6 3.5	0.17 6.7	1.7 .061	250
GL**06C GL**36C	SLOW ACTING	0 15** 21-22 13-14	9.3 2.1	15.6 3.5	0.17 6.7	1.7 .061	250
GL**20C GL**22C GL**24C GL**32C	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 .061	250
GL**21C GL**25C GL**28C GL**31C	SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL	0 15 16.9 11-12 13-14 21-22 23-24 1.4 DIFFERENTIAL TRAVEL	9.3 2.1	N/A	0.17 6.7	1.7 .061	250

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 MICRO SWITCH  
 Honeywell Division  
 SWITCH, ENCLOSED  
 GL SERIES CHART 1

THIRD ANGLE PROJECTION  
 SCALE: FULL  
 DO NOT SCALE PRINT  
 TOLERANCES: UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 DECIMALS ARE TO 0.001  
 FRACTIONS ARE TO 1/32  
 UNLESS OTHERWISE SPECIFIED  
 HONEYWELL  
 MICRO SWITCH  
 MADE IN U.S.A.  
 WEIGHT

ANSI Y14.5M-1982 APPLIES