



### GLCA01B



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

*Actual product appearance may vary.*

#### 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.)	3,0 mm [0.12 in]
Overtravel (O.T.)	3,0 mm [0.12 in]
Differential Travel (D.T.)	0,9 mm [0.035 in]
Product Type	EN50041/47 Global Limit Switch
Actuator	Top Plunger
Lever Style	None
Circuitry	1NC 1NO SPDT Snap Action
Ampere Rating	10 A (Thermal)
Supply Voltage	300 Vac and 250 Vdc max.

Housing Material	Zinc Die-Cast
Termination Type	0.5 in - 14NPT conduit
Housing Type	EN 50047
Series Name	GLS MIN-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 IP66
Approvals	UL, CSA, CE
CSA File #	LR94369-3
UL File #	E37138 & E157416
Mechanical Life	15 million
Operating Temperature Range	-40 °C to 85 °C [-40 °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.)	18,0 mm [0.71 in]

---

**MTG-GL-168**

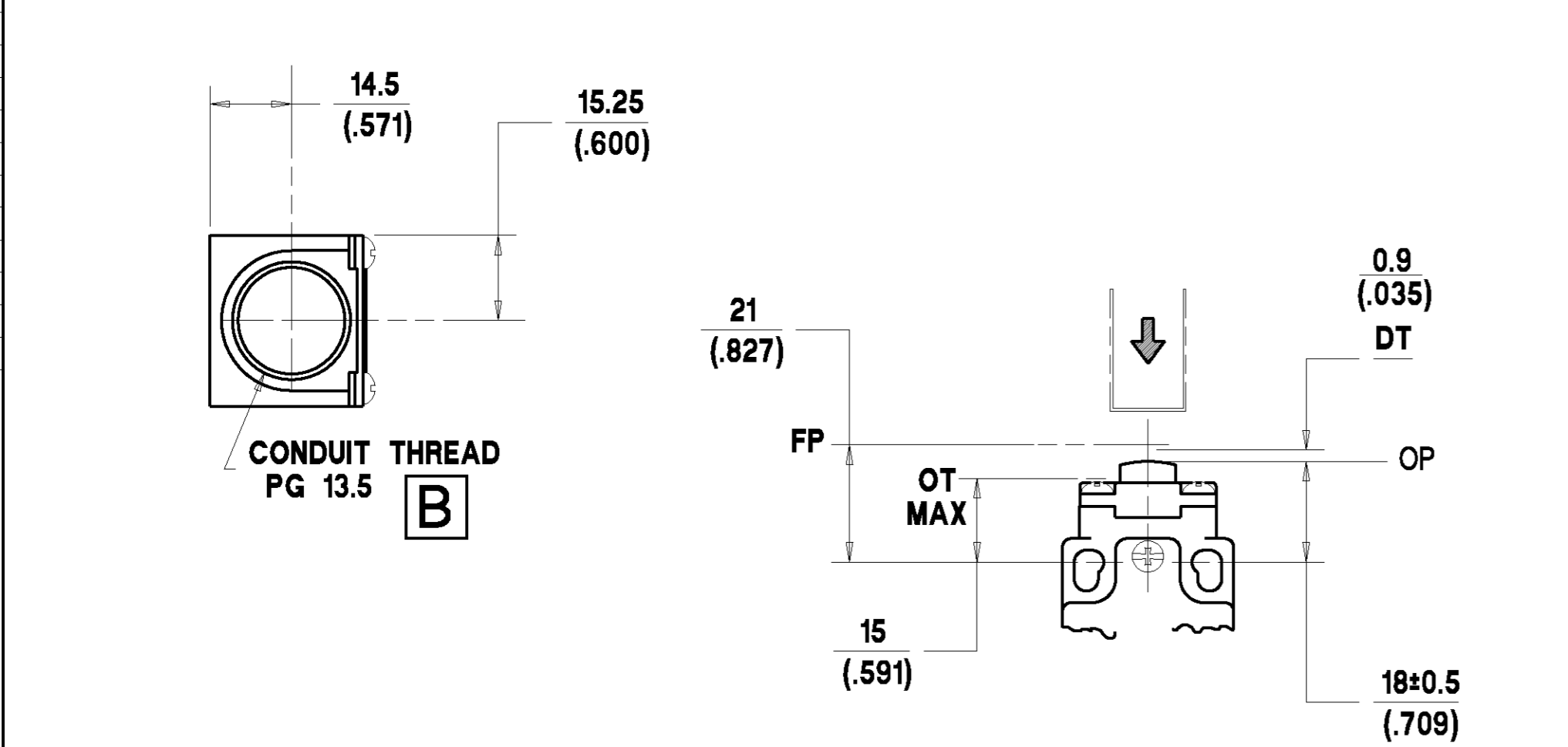
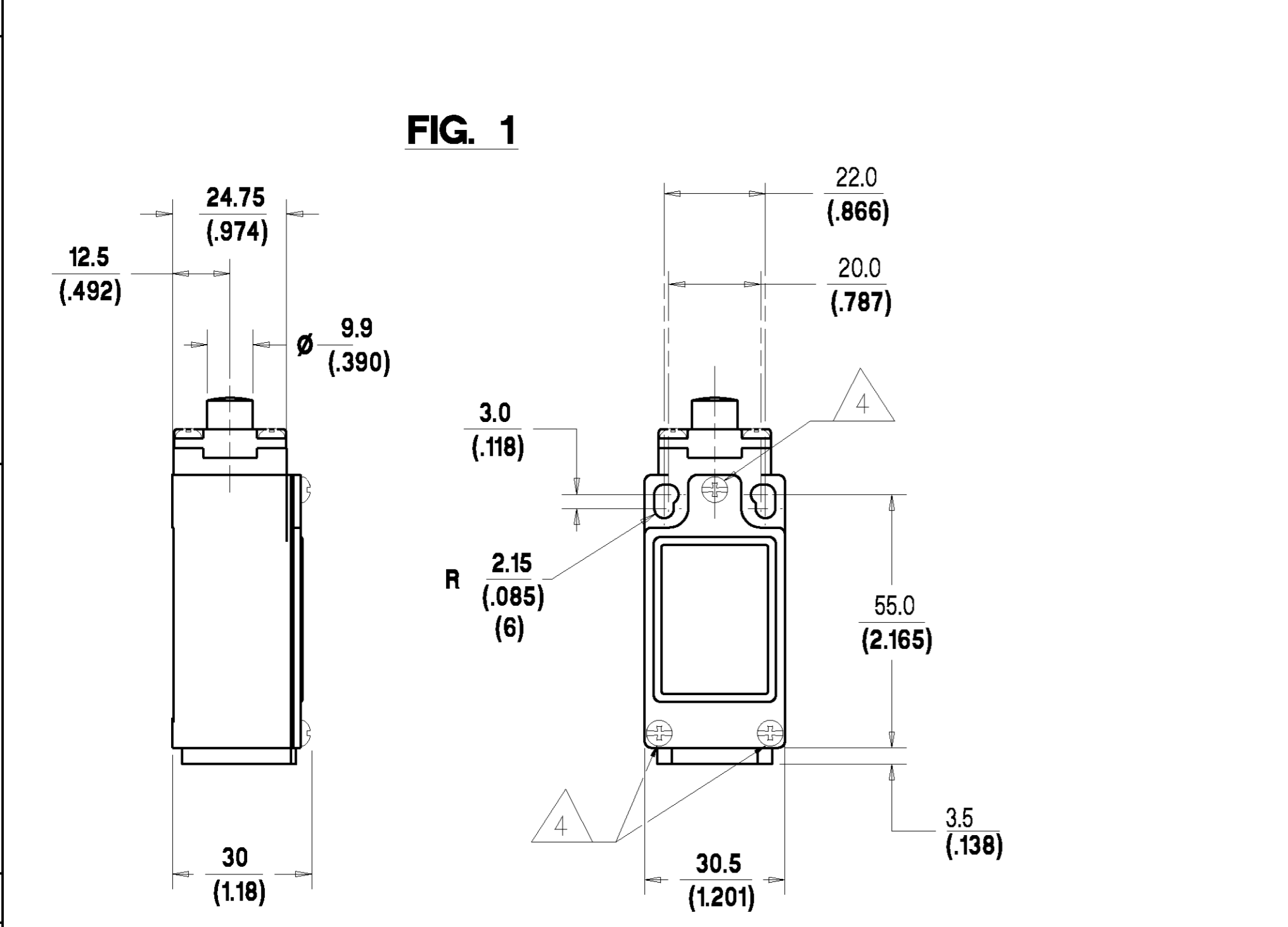
REPLACES  
DRAWING NUMBER  
AO1B-38

REVISIONS  
DATE  
DESCRIPTION

DRAWN  
M. LOCH  
CHECK  
I. WEIR  
DESIGN  
J. BOYD  
AUTHOR  
P. TRICKETT

MODIFY ON CAD SYSTEM ONLY

**Honeywell** **LIMIT SWITCH** **GLS**  
CHART NO. **MTG-GL-168**



**NOTES:-**

- ZINC DIECAST BODY AND HEAD WITH STEEL COVER. BODY AND COVER FINISHED IN MICRO SWITCH BLUE EPOXY PAINT. HEAD FINISHED IN BLACK EPOXY PAINT.
- MINIMUM OPERATING VELOCITY (V<sub>min</sub>) = 1.0 MM/S (THESE LIMITS APPLY TO CAM OPERATION AS SHOWN IN THE ABOVE DIAGRAMS ONLY)  
MAXIMUM OPERATING VELOCITY (V<sub>max</sub>) = 100 MM/S  
MAXIMUM OPERATING FREQUENCY (F<sub>max</sub>) = 250 OPS/MIN
- FREE POSITION (FP), OPERATING POINT (OP), OVERTRAVEL (OT) AND PRETRAVEL (PT) ALL TO EN50047.

△ MAXIMUM TIGHTENING TORQUE FOR FIXING SCREW = 0.5Nm (4.4in.LB)

NO CHANGES CAN BE MADE TO THIS DRAWING WITHOUT JOINT NEWHOUSE/FREEPORT APPROVAL

STANDARD SILVER CONTACTS	GOLD PLATED CONTACTS	ENVIRONMENTAL		APPROVALS
ELECTRICAL RATING	ELECTRICAL RATING	ENVIRONMENTAL		APPROVALS
AC A300 U <sub>e</sub> I <sub>e</sub> VOLTS AMPS 120 6 240 3	DC O300 U <sub>e</sub> DC I <sub>e</sub> VOLTS AMPS 125 0.55 250 0.27	I <sub>th</sub> = 10A		UL IEC 947-5-1 EN50047
IP66 NEMA 1, 4, 12, 13		TEMP RANGE : -25°C TO 85°C -13°F TO 185°F STORAGE : -40°C TO 85°C -40°F TO 185°F		
SHOCK : 50G PER IEC 68-2-27		VIBRATION : 10G PER IEC 68-2-6		
VOLTS AMPS 120 6 240 3		VOLTS AMPS 125 0.55 250 0.27		
IV 10μA MIN. 50V 100mA MAX.				
SCALE 1:1		DIMENSIONS ARE IN MM/INCHES.		

SNAP-ACTION CONTACTS 13 14 21 22	SLOW-ACTION CONTACTS (BREAK BEFORE MAKE) 21 22 13 14	SLOW-ACTION CONTACTS (MAKE BEFORE BREAK) 21 22 13 14	SLOW-ACTION CONTACTS (2 NORMALLY CLOSED) 11 12 21 22	CONTACT BLOCK DIAGRAM TERMINAL DESIGNATION TO EN 50013
21mm 21-22 13-14 FP 18mm DT=0.9mm 18.9mm RP 16mm * 15mm OT(max)	21mm 21-22 13-14 FP OP 18mm 17mm * 17.2mm 15mm OT(max)	21mm 21-22 13-14 FP 18mm 17mm * 16.2mm 15mm OT(max)	21mm 21-22 11-12 FP OP 18mm 17mm * 16.5mm 15mm OT(max)	NOMINAL TRAVELS AND RELATED TERMINALS CONTACT CLOSED CONTACT OPEN * POSITIVE OPENING TO IEC 947-5-1-3
16 (3.6)	14 (3.2)	16 (3.6)	13 (2.9)	NORMAL OPERATING FORCE MAX N (lbf)
23 (5.2)	24 (5.4)	27 (6.1)	23 (5.2)	MAXIMUM DISCONNECT FORCE N (lbf)

