













## Performance Data

TABLE 10

### Celsius Units (°C)

Figures given in tables are typical maxima for mid-range setting and are for guidance only. Value will vary across the range i.e. lower at or near the bottom of the range and higher at or near the top of the range.

Should the switching differential be critical for specific applications, our engineers should be consulted prior to ordering.

Range Code	Range	SPDT OPTIONS		DPDT OPTIONS		
		HP	HS/HV	HD/HR	HQ/HT	HW/HY
H1	-40 to +60	2.8	4	6	3.2	6
K4	10 to 100	2.8	4	6	3.2	6
L4	50 to 120	2.8	4	6	3.2	6
S4	120 to 220	2.8	4	6	3.2	6
TH	150 to 270	3.5	5	7.5	4	7.5
V9	230 to 350	4.2	6	9	4.8	9

### Fahrenheit Units (°F)

Due to manufacturing tolerances the figures quoted in these tables are for guidance only.

Flameproof models maybe up to 2 times higher depending on the range.

Should the differential be critical for specific applications our engineers should be consulted prior to ordering.

Range Code	Range	SPDT OPTIONS		DPDT OPTIONS		
		HP	HS/HV	HD/HR	HQ/HT	HW/HY
HA	-40 to +140	4.9	7	10.5	5.6	10.5
KC	50 to 212	4.9	7	10.5	5.6	10.5
LB	120 to 250	4.9	7	10.5	5.6	10.5
SE	250 to 430	4.9	7	10.5	5.6	10.5
TQ	300 to 518	6.3	9	13.5	7.2	13.5
V0	450 to 660	7.7	11	16.5	8.8	16.5

## Electrical Connection

### Flying Lead

High Duty PVC insulated 1.19mm<sup>2</sup>/18AWG factory sealed flying leads. Rated insulation voltage CSA 600V.

### Terminal Enclosure

Suitable for conductor sizes up to 2.5mm<sup>2</sup>/14AWG non-pinching, clamped.

### Earthing/Grounding

An earthing facility is provided. Flying lead versions have separate earth/ground conductor. Terminal enclosures have additional internal earthing/grounding facilities.

### Diaelectric Strength

The electrical assembly is capable of withstanding \*1.5kV between live parts and earth/ground and 500V between open contacts.

## Optional Extras

### Mounting Position/Location/Installation

Vertical as shown, IN DIMENSIONS, taking care to avoid siting in locations that transmit excessive shock or vibration. For further advice contact our engineers.

### Pollution degree (EN60947-5-1)

All switches rated IP66 are suitable for use in pollution degree 3. Ref IEC 947-5-1.

### Electrical Isolation

These products are not suitable for electrical isolation. Always isolate circuit separately to carry out any electrical work.

## Approvals

### EUROPEAN DIRECTIVES



**Low voltage Directive (LVD) 2014/35/EU.**  
Compliant to LVD

### **ATEX Directive 2014/34/EU:**



**INTRINSIC SAFETY:**  
Certificate No. BASEEFA06AATEX0091X  
EN 60079-0, EN 60079-11, EN 60079-26, EN 61241-0, EN 61241-11

For Zone 0 models (**Enclosure code 4/5, see table 1**)

Because of the low voltages and currents of intrinsically safe circuits, we recommend using gold alloy contacts. Refer to Table 6.

	II 1 GD	Ex ia IIC T6 Ga Ex ia IIIC T85° Da IP6x (Tamb -40°C to +60°C) or T4 Ga
	II 1 GD	Ex ia d IIIC T135°C Da IP6x (Tamb -40°C to +85°C)

**FLAMEPROOF:**  
Certificate No. BASEEFA02ATEX0214X  
EN 60079-0 + A11, EN 60079-1

For Zone 1 models (**Enclosure code H/R, see table 1**)

	II 2 G	Ex d IIC T6 (Tamb -40°C to +65°C)
	II 2 G	Ex d IIC T4 (Tamb -40°C to +85°C)

**INTEGRAL INCREASED SAFETY TERMINAL**  
Certificate No. BASEEFA03ATEX0089X  
EN 60079-0:2006, EN 60079-7:2006

For Terminal Enclosures code J, see table 3

	II 2 G	Ex e II T6
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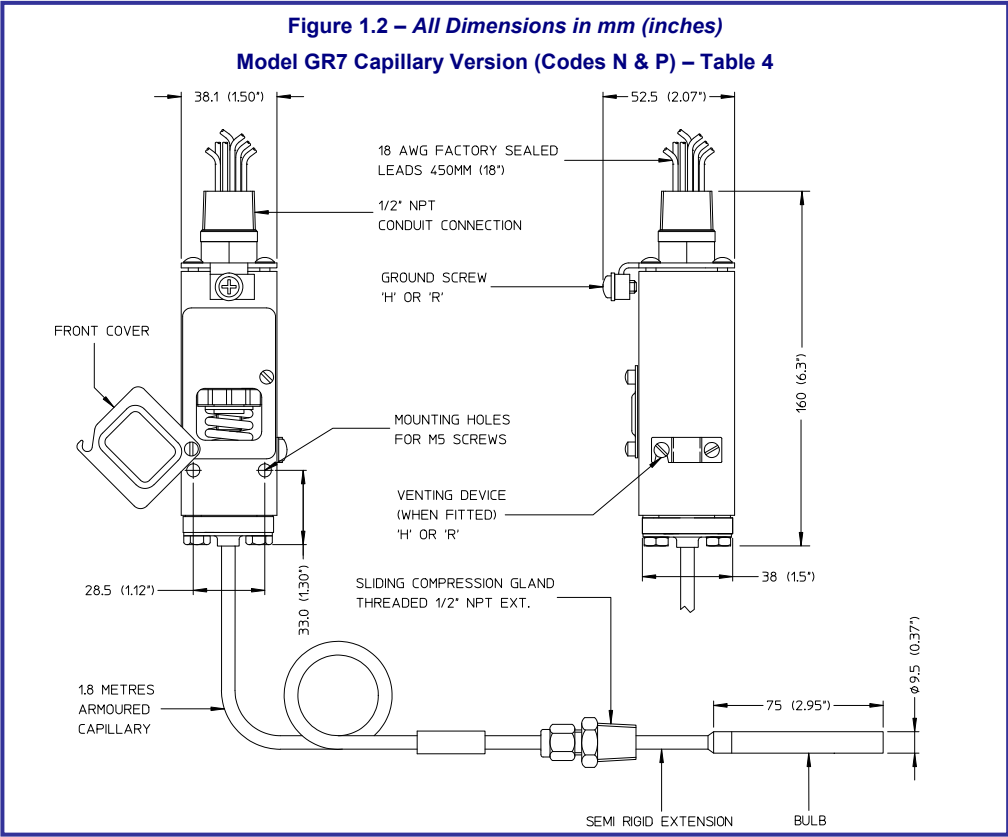
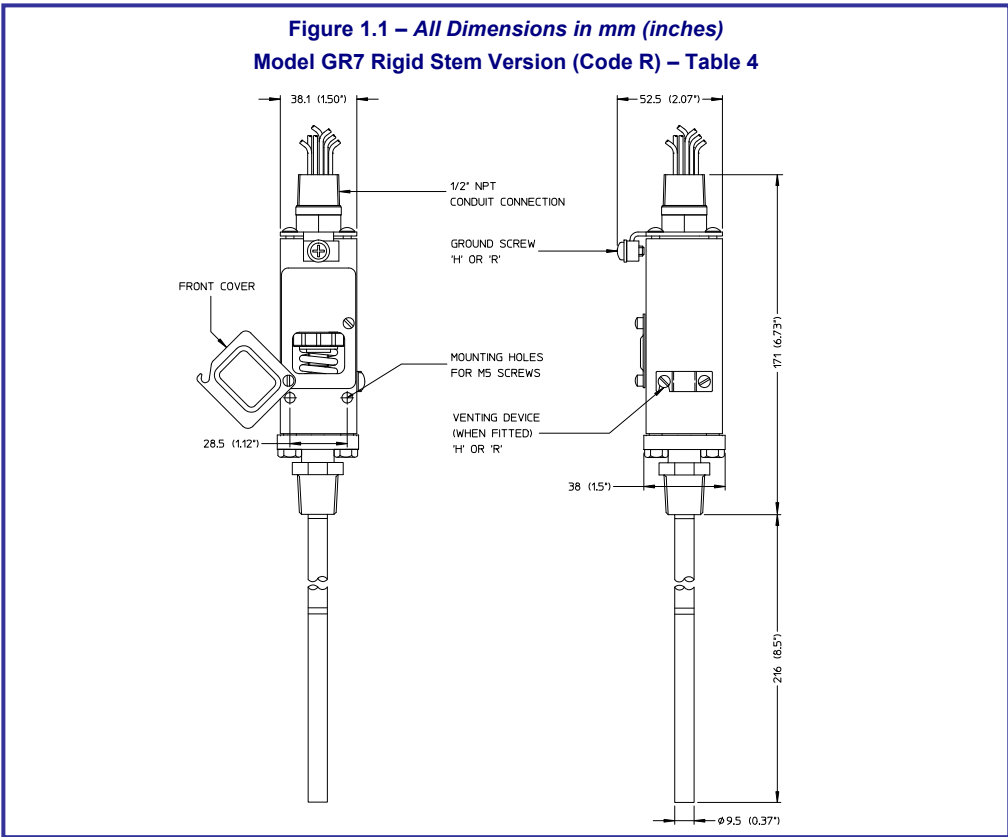
### GLOBAL CERTIFICATION



**CANADIAN STANDARDS ASSOCIATION**  
Snap switches for Hazardous locations  
Enclosure codes T & U.  
Terminal enclosure code A.  
Class 1, Groups A, B, C & D Class II, Groups E, F, G.  
LR67110-5

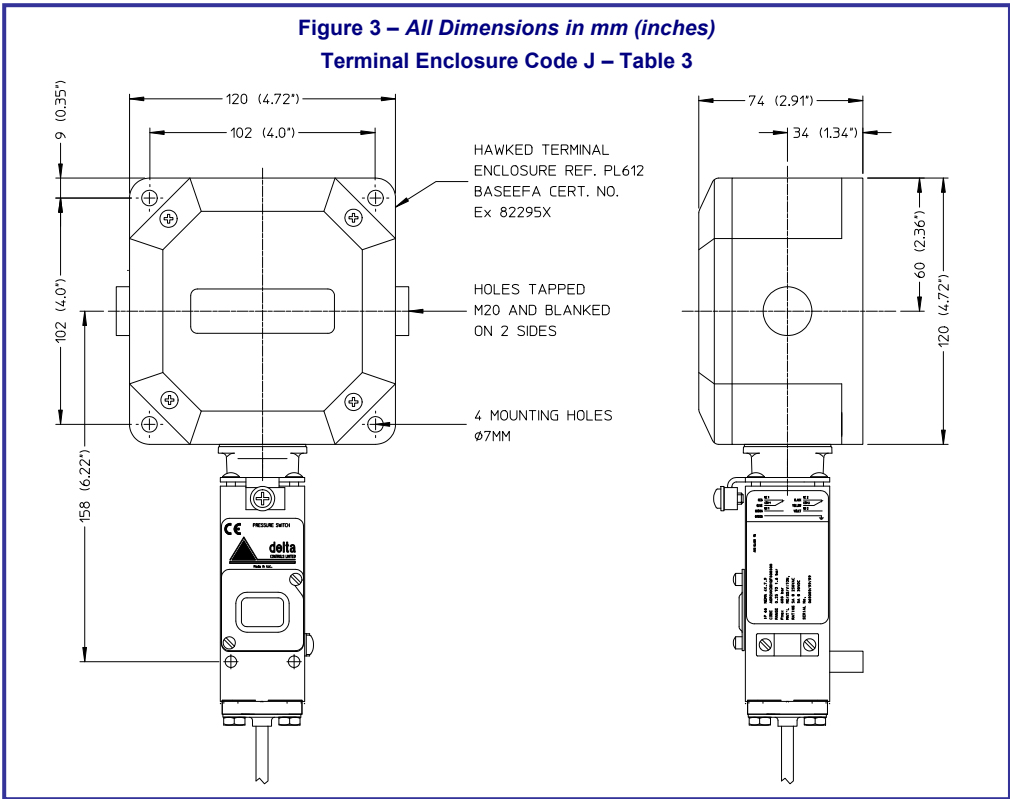
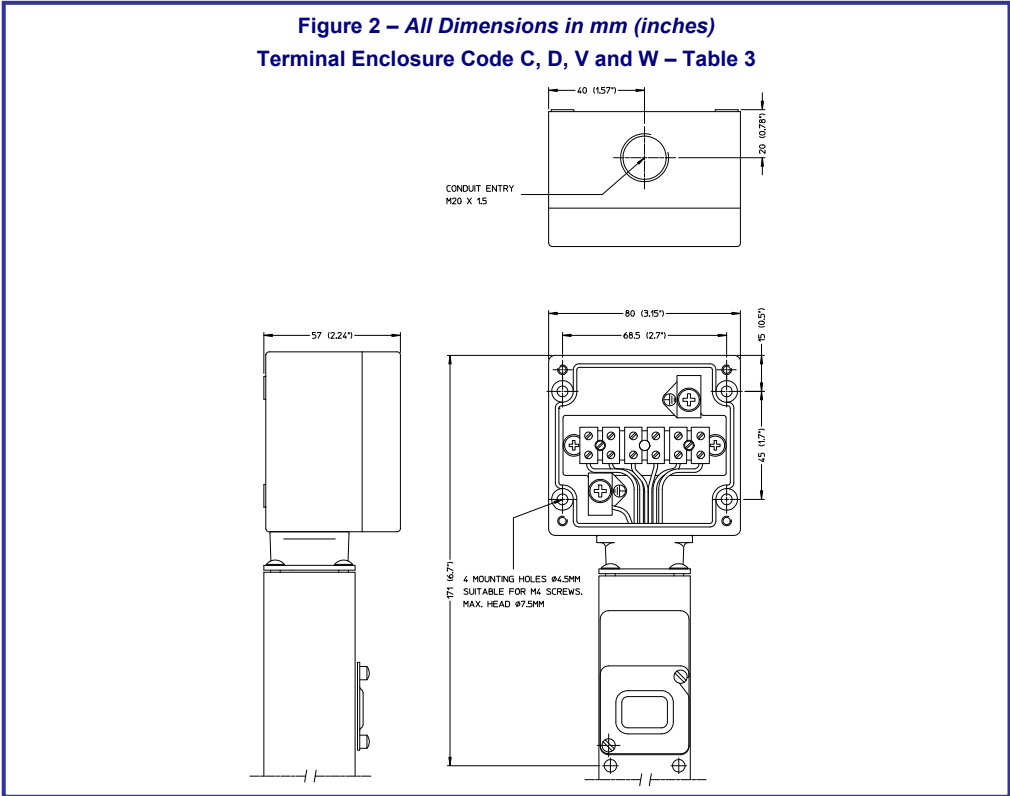


# Dimensions



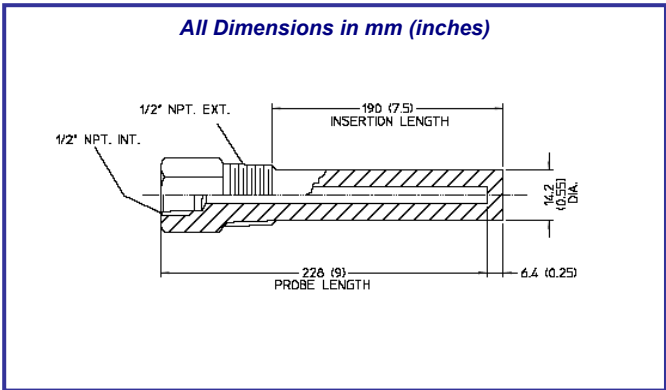
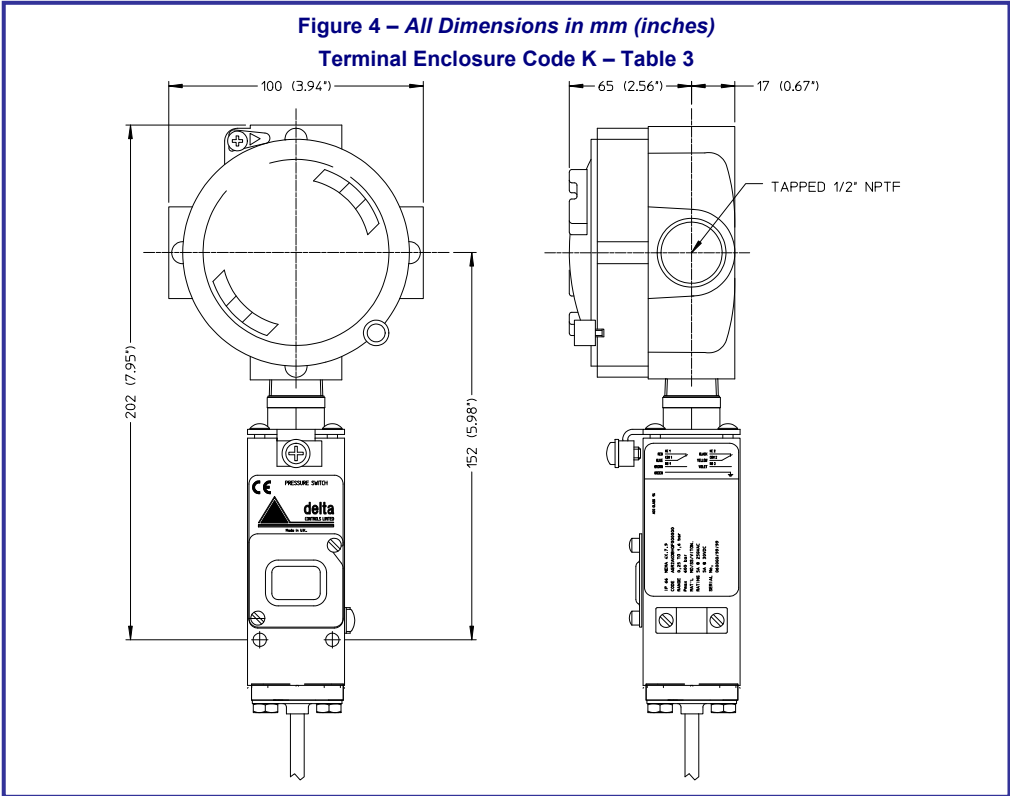
GR Series  
Models: GR7

# Dimensions



**GR Series**  
Models: GR7

# Dimensions



**THERMOWELL**

Material 316 SS

Max. Working Pressure  
140 bar (2000 psi) at 20°C

Thermowells can also be manufactured to customers own drawing specification requirements.

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