

## **G & L-Series Multifunction Temperature Switches**

#### **FEATURES**

- Precision SPDT or DPDT snap-acting micro switch
- Setpoint adjustable from 0 -100% of range
- Single or dual adjustable set points
- Choice of temperature ranges (from -40 °F to 750 °F)
- Fixed or adjustable deadband
- Direct or remote reading thermal systems
- Wide selection of switch elements

#### **TYPICAL USES**

- Refineries
- Chemical and petrochemical plants
- Pulp and paper mills
- Power plants
- Steel mills

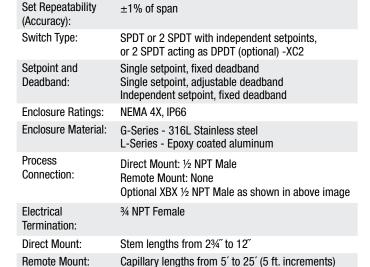
Approvals:

- Water and sewage treatment plants
- Pumps, compressors and turbines
- Dairies and breweries
- Boilers and burners
- Reverse osmosis systems and filters
- Filters and presses
- Paint spraying equipment
- Specialized OEM equipment

PERFORMANCE SPECIFICATIONS

Pharmaceutical plants

GOLD Service	SSCCOT THE STATE OF THE STATE
	<b>L-Series</b> Direct Mount
L-Series Remote Mount (Shown with optional XBX-½" male bushing)	SUSCISSION OF THE PROPERTY OF
SCOOLST STATE OF THE STATE OF T	G-Series Direct Mount
G-Series Remote Mount	



G Series - UL, CSA, CE, RoHS



#### **KEY BENEFITS**

(Shown with optional XBX-1/2" male bushing)

- 316 SS (G-series) or epoxy-coated aluminum (L-series) enclosures provide added protection in harsh environments
- Designed for use in wide range of applications
- Easily configurable to meet your application requirements
- Hermetically sealed micro switches offer improved reliability and safety (UL Class I Div II approval)

WETTED COMPONENTS	
Direct Mount	Remote Mount
316 Stainless steel	Bulb capillary: 316 SS Spiral armor: 302 SS

1 of 4

Watertight: L Series - UL, CSA, CE/UKCA, RoHS



# **G & L-Series Multifunction Temperature Switches**

ORDERING CODE Example:	GTA	N4	Н	05	<b>A</b> 7	030	XNH	150/26
Function/Enclosure								
LTS - Temperature control, single setpoint, fixed deadband								
LTA - Temperature control, single setpoint. adjustable deadband								
LTD - Temperature control, Two Independently adjustable setpoint, fixed deadband								
GTS - Temperature control, single setpoint, fixed deadband	OTA							
GTA - Temperature control, single setpoint. adjustable deadband	GTA							
GTD - Temperature control, Two Independently adjustable setpoint, fixed deadband								
Enclosure			_					
N4 - NEMA, 4X		N4						
Switch Elements For GTA/LTA/PTA Controls								
H - General purpose - 10A,125/250 Vac, 1/2A, 125 Vdc, 1/4A, 250 Vdc			Н					
J - Hermetically sealed, general purpose - 11A, 125/250 Vac 5A, 30 Vdc								
Single/Dual Switch Elements For GTD/LTD & GTS/LTS Controls								
C/CC - Heavy duty ac - 22A, 125/250 Vac								
F/FF - Sealed environment proof - 15A, 125/250 Vac (estimated dc rating - 4A, 28	3 Vdc,							
not UL listed)								
G/GG - General purpose - 15A, 125/250/480 Vac, 1/2A, 125 Vdc, 1/4A, 250 Vdc (not UL listed at 480 Vac)								
J/JJ - Hermetically sealed switch, general purpose - 11A, 125/250 Vac 5A, 30 Vd	С							
K/KK - Narrow Deadband - 15A, 125/250 Vac (estimated dc rating - 0.4A, 120 Vd not UL listed)	c,							
L/LL - Hermetically Sealed, Gold Contacts - 1A, 125 Vac (available on L series only	/)							
M/MM - Low level gold contacts, 1A - 125 Vac								
P/PP - Hermetically sealed AC - 5A, 125/250 Vac (estimated dc rating - 2.5A, 28 Vd. not UL listed)	c,							
S/SS - Heavy Duty DC - 10A, 125 Vac or Vdc, 1/8 HP, 125 Vac or Vdc								
U/UU - Manual Reset, Actuates on Increasing Pressure - 15A, 125/250 Vac, 6A, 130 V	dc							
Y/YY - High Temperature 300 °F Ambient - 15A, 125/250 Vac								
W/WW - Ammonia Service - 5A, 125/250 Vac, 6A, 30 Vdc								
Capillary Line Length								
Direct Mount					-			
00 - Direct Mount					_			
Remote Mount - Capillary with Armor (Consult factory for custom or longe	r lengths)							
05 - 5′				05				
10 - 10′								
15 - 15′								
20 - 20′					_			
25 - 25′								
Thermal System Selection								
Direct Mount								
No entry required for direct mount								
Remote Mount								
A7 - Stainless steel Armor (STD.)					A7			
Remote Mount Bulb Length Selection								
Direct Mount								
S Dim. U Dim.								
For thermowell (ordered separately)							-	
027 2¾″ N/A								
040 4" 2½"								
060 6" 4½"								
090 9" 7½"								
120 12" 10½"							-	
Remote Mount								
030 3" 2½"	(A)					030		
Options (see Table 1 on page 3) (If choosing an option(s) must include an ")	X")						X	
NH - Tagging SS							NH	
Temperature Ranges (see temperature range table on page 3)								
150/260 °F								150/26



# **G & L-Series Multifunction Temperature Switches**

TABLE 1 - OPTIONS								
Code	Description	Notes						
вх	1/2 Male NPT bushing	Remote mount only - seals capillary to thermowell						
CH	Chained cover							
FP	Fungus proof							
FS	Factory adjusted setpoint	Setpoint must be given as increasing or decreasing						
JL	¾ to ½ reducing bushing	Conduit reducing bushing						
K3	Terminal blocks							
LE	6ft Wire leads							
NH	Tagging, stainless steel							
PJ	24 Vdc Pilot light(s), single or dual.	Available with L-series only						
PK	Pilot lights	Available with L-Series only						
PM	34" sealed conduit connection with 16" lead wires							
TM	2" Pipe mounting bracket							
C4	Traceable calibration certificate							
2C	DPDT with single setpoint adjustment	Available with LTS and GTS models only						

#### STANDARD TEMPERATURE RANGE SELECTION

Nomina	I Range	Max. Temperature	Approximate Deadband Switch Element in °F									
°F	°C °F		LTA-GTA	LTS-GTS				LTD-GTD				
•		•	J,H	G	J,H	K,F	P	G,G	JJ,HH	KK,FF	PP	
-40 to 60	-40 to 16	400	8-90	4.0-10	9.0-18	1.5-3	2-5	4.0-10	9.0-18	1.5-3	2-5	
0 to 100	-20 to 40	400	30-90	5.0-15	10-30	1.5-5	3-7	5.0-15	10-30	1.5-4.5	3-7	
75 to 205	20 to 95	400	34-120	6.0-18	10-34	3-5.5	3-8	6.0-18	10-34	3-5.5	3-8	
150 to 260	65 to 125	400	25-100	3-13	9.0-25	1.5-4	3-7	3-13	9.0-25	1.5-4	3-7	
235 to 375	110 to 190	500	35-130	6-19	10-35	2-5.5	3-8	6-19	10-35	2-5.5	3-8	
350 to 525 (1)	175 to 275	700	40-165	5-27	15-40	3-7	3.5-11	5-27	15-40	3-7	3.5-11	
500 to 750 <sup>(2)</sup>	260 to 400	900	50-200	20-36	36-60	5-10	6-21	20-36	36-60	5-10	6-21	

NOTE: (1) N/A with 2 3/4" direct mount stem

<sup>(2)</sup> Avalable with remote mount systems only

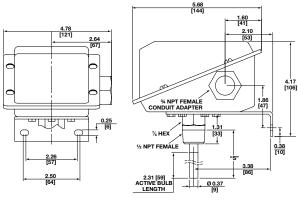


## **G & L-Series Multifunction Temperature Switches**

### G-SERIES DIMENSIONS in [] are millimeters

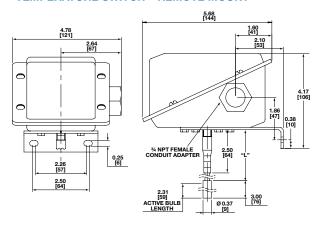
For reference only, consult Ashcroft for specific dimensional drawings

#### **TEMPERATURE SWITCH - DIRECT MOUNT**



"S" Dimensions					
2¾"	[70]				
4"	[102]				
6″	[152]				
9″	[229]				
12"	[305]				

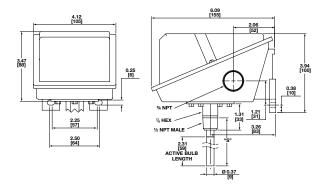
### **TEMPERATURE SWITCH - REMOTE MOUNT**



### L-SERIES DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

#### **TEMPERATURE SWITCH - DIRECT MOUNT**



#### **TEMPERATURE SWITCH - REMOTE MOUNT**

