

Temperature Switches Watertight Enclosure, Type 400, B-Series

This broad Ashcroft® switch series is easy to use and readily retrofits to virtually all process, industrial and OEM applications.

- Watertight NEMA 4X, IP66 enclosure
- Choice of switch elements for all applications, including hermetically sealed (NEMA 4 meets Class I, Div. 2, Groups A, B, C, & D with hermetically sealed switch)
- UL, CSA listings standard

- Setpoints adjustable from 15-100% of range
- Wetted material is all-welded stainless steel
- Fixed or limited adjustable deadband
- Readily available

1 - ENCLOSURE

- T4** - Temperature switch, type 400, watertight enclosure meets NEMA 3, 4, 4X and 13, IP66 requirements

2 - SWITCH ELEMENTS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed SPDT	
20 ⁽⁴⁾	Narrow deadband	15A, 125/250 Vac
21 ⁽⁷⁾	Ammonia service	5A, 125/250 Vac
22 ⁽³⁾	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A, 125/250 Vac
24 ⁽¹⁾	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
25	Heavy duty dc	10A, 125/ Vac or dc 1/8HP 125/ Vac or dc
26 ⁽⁴⁾	Sealed environment proof	15A, 125/250 Vac
27	High temp. 300°F	15A, 125/250 Vac
28	Manual reset trip on increasing	15A, 125/250 Vac
29	Manual reset trip on decreasing	15A, 125/250 Vac
31	Low level (gold) contacts	1A, 125/250 Vac
32	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc
50	Variable deadband	15A, 125/250 Vac
UL/CSA Listed Dual SPDT⁽²⁾		
61 ⁽⁴⁾	Dual narrow deadband	15A, 125/250 Vac
62 ⁽⁴⁾	Dual narrow environment proof	15A, 125/250 Vac
63	Dual high temp. 300°F	15A, 125/250 Vac
64	Dual general purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
65 ⁽⁷⁾	Dual ammonia service	5A, 125/250/480

3 - THERMAL SYSTEM SELECTION⁽⁵⁾

DIRECT MOUNT			
Order Code	System Material	Style	
TS	316 stainless steel	Rigid	
REMOTE MOUNT			
Order Code	System Material	Line Length	Style
T05	316 stainless steel	5'	Capillary
T10	316 stainless steel	10'	with
T15	316 stainless steel	15'	302 SS
T20	316 stainless steel	20'	Spring
T25	316 stainless steel	25'	Armor

4 - BULB LENGTH SELECTION⁽⁶⁾

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

5 - OPTIONS

See pages 250-251

6 - STANDARD TEMPERATURE RANGES

See page 247

TO ORDER THIS B-SERIES TEMPERATURE SWITCH:

Select: T4 20 T05 030 XNH 150° to 260°F

1. Enclosure: _____

2. Switch Element: _____

3. Thermal System: _____

4. Bulb Length: _____

5. Options (see pages 250-251): _____

6. Temperature Range (see page 247): _____

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at
www.ashcroft.com



NOTES:

1. Standard switch.
 2. Dual switches are 2 SPDT snap-action switches not independently adjustable.
 3. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
 4. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
 5. Additional line lengths available, call factory.
 6. Additional bulb lengths available, call factory.
 7. Not UL listed
- Switches calibrated at 70°F ambient reference.

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments. The Ashcroft 400 Series is also approved for installation in Division II hazardous areas when supplied with hermetically sealed contacts.

Features:

- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction



This broad Ashcroft® switch series ideal for use in virtually all process, industrial and OEM applications.

- **Explosion-proof NEMA 7/9, IP66 enclosures**
- **Choice of switch elements for all applications, including hermetically sealed**

1 - ENCLOSURE

T7 - Temperature switch, type 700, explosion proof enclosure meets Div. 1 & 2, NEMA 7/9, IP66 requirements

2 - SWITCH ELEMENTS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed SPDT	
20 ⁽⁴⁾	Narrow deadband	15A, 125/250 Vac
21	Ammonia service	5A, 125/250 Vac
22 ⁽³⁾	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A, 125/250 Vac
24 ⁽¹⁾	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
25	Heavy duty dc	10A, 125/ Vac or dc 1/8HP 125/ Vac or dc
26 ⁽⁴⁾	Sealed environment proof	15A, 125/250 Vac
27	High temp. 300°F	15A, 125/250 Vac
31	Low level (gold) contacts	1A, 125/250 Vac
32	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc
50	Variable deadband	15A, 125/250 Vac
UL/CSA Listed Dual SPDT⁽²⁾		
61 ⁽⁴⁾	Dual narrow deadband	15A, 125/250 Vac
62 ⁽⁴⁾	Dual narrow environment proof	15A, 125/250 Vac
63	Dual high temp. 300°F	15A, 125/250 Vac
64	Dual general purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
65	Dual ammonia service	5A, 125/250/480
67 ⁽³⁾	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
68	Dual hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

- **Fixed or limited adjustable deadband**
- **Readily available**
- **UL listings standard**
- **CSA listings available⁽⁷⁾**
- **ATEX models available⁽⁷⁾**
- **Setpoints adjustable from 15-100% of range**
- **IECEx models available⁽⁷⁾**

3 - THERMAL SYSTEM SELECTION⁽⁵⁾

DIRECT MOUNT			
Order Code	System Material	Style	
TS	316 stainless steel	Rigid	
REMOTE MOUNT			
Order Code	System Material	Line Length	Style
T05	316 stainless steel	5'	Capillary
T10	316 stainless steel	10'	with
T15	316 stainless steel	15'	302 SS
T20	316 stainless steel	20'	Spring
T25	316 stainless steel	25'	Armor

4 - BULB LENGTH SELECTION⁽⁶⁾

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

5 - OPTIONS

See pages 250-251

6 - STANDARD TEMPERATURE RANGES

See page 247

NOTES:

1. Standard switch.
 2. Dual switches are 2 SPDT snap-action switches not independently adjustable.
 3. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
 4. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
 5. Additional line lengths available, call factory.
 6. Additional bulb lengths available, call factory.
 7. Refer to Options Table.
- Switches calibrated at 70°F ambient reference.



HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments.

Features:

- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction



TO ORDER THIS B-SERIES TEMPERATURE SWITCH:

Select: **T7** **20** **T05** **030** **XNH** **150° to 260°F**

1. Enclosure: _____

2. Switch Element: _____

3. Thermal System: _____

4. Bulb Length: _____

5. Options (see pages 250-251): _____

6. Temperature Range (see page 247): _____

Temperature Switches, Watertight 316 Stainless Steel Enclosure. G-Series

This Ashcroft® specialty switch series is ideally suited for harsh and corrosive environments often found in many process, industrial and OEM applications.

- **Watertight NEMA 4X, IP65 enclosure**
- **316 SS construction**
- **Choice of switch elements for all applications, including hermetically sealed (NEMA 4 meets Class I, Div. 2, Groups A, B, C, & D with hermetically sealed switch**
- **Single or dual independently adjustable setpoints meet all setpoint requirements**

- **Fixed or fully adjustable deadband**
- **Readily available**
- **UL, CSA listings standard**
- **Setpoints adjustable from 15-100% of range**

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments. The Ashcroft G Series is also approved for installation in Division II hazardous areas when supplied with hermetically sealed contacts.

Features:

- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction



1 - FUNCTION

- GTA** - Temperature control, single setpoint, adjustable deadband
- GTD** - Temperature control, two independently adjustable setpoints, fixed deadband
- GTS** - Temperature control, single setpoint, fixed deadband

2 - ENCLOSURE

- N4 - NEMA 4/4X, IP65**
(watertight and corrosion resistant)

3 - SWITCH ELEMENTS FOR PTA CONTROLS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed	
H	General purpose	10A, 125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR GTP & GTS CONTROLS

Code		Switch Elements UL/CSA Listed	
Single (GS)	Dual (GD)		
K ⁽²⁾	KK	Narrow deadband	15A, 125/250 Vac
F ⁽²⁾	FF	Sealed environment proof	15A, 125/250 Vac
G ⁽³⁾	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P ⁽¹⁾	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

4 - LINE LENGTH SELECTION⁽⁴⁾

DIRECT MOUNT		
Order Code	Line Length ft	Style
00	Not Applicable	Rigid
REMOTE MOUNT		
05	5	Capillary
10	10	with
15	15	Armor
20	20	(Std.)
25	25	

5 - THERMAL SYSTEM SELECTION

LINE MATERIAL	
DIRECT MOUNT	
Order Code	Description
	No entry required for Direct Mount
REMOTE MOUNT	
A7	Stainless Steel Armor (Std.)

6 - BULB LENGTH SELECTION⁽⁵⁾

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2¾"	—
040	4"	2½"
060	6"	4½"
090	9"	7½"
120	12"	10½"
REMOTE MOUNT		
030	3"	2½"

7 - OPTIONS

See pages 250-251

8 - STANDARD TEMPERTATURE RANGES

See page 249

NOTES:

1. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
2. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
3. Not UL listed at 480 Vac.
4. Additional line lengths available, call factory.
5. Additional bulb lengths available, call factory.
Switches calibrated at 70°F ambient reference.

TO ORDER THIS G-SERIES TEMPERATURE SWITCH:

Select:

1. Function: _____

2. Enclosure: _____

3. Switch Element: _____

4. Line Length: _____

5. Thermal System: _____

6. Bulb Length: _____

7. Options (see pages 250-251): _____

8. Temperature Range (see page 249): _____

GTA N4 H 05 A7 030 XNH 150° to 260°F

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www.ashcroft.com

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- Single or dual independently adjustable setpoint(s) meet all setpoint requirements
- Watertight NEMA 4X, IP66 enclosure
- Choice of switch elements for all applications, including hermetically sealed (NEMA 4 meets Class I, Div. 2, Groups A, B, C, & D with hermetically sealed switch)
- Fixed or fully adjustable deadband
- Readily available
- UL, CSA listings standard
- Setpoints adjustable from 15-100% of range

1 - FUNCTION

- LTA** - Temperature control, single setpoint, adjustable deadband
- LTD** - Temperature control, two independently adjustable setpoints, fixed deadband
- LTS** - Temperature control, single setpoint, fixed deadband

2 - ENCLOSURE

- N4** - NEMA 4/4X, IP66 (watertight and corrosion resistant)

3 - SWITCH ELEMENTS FOR LTA CONTROLS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed
H	General purpose 10A, 125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose 11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR LTD & LTS CONTROLS

Code		Switch Elements UL/CSA Listed	
Single (LS)	Dual (LD)		
K ⁽²⁾	KK	Narrow deadband	15A, 125/250 Vac
F ⁽²⁾	FF	Sealed environment proof	15A, 125/250 Vac
G ⁽³⁾	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P ⁽¹⁾	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A,125/250 Vac 5A, 30 Vdc

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments. The Ashcroft L Series is also approved for installation in Division II hazardous areas when supplied with hermetically sealed contacts.

Features:

- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction



4 - LINE LENGTH SELECTION⁽⁴⁾

DIRECT MOUNT		
Order Code	Line Length ft	Style
00	Not Applicable	Rigid
REMOTE MOUNT		
05	5	Capillary
10	10	with
15	15	Armor
20	20	(Std.)
25	25	

5 - THERMAL SYSTEM SELECTION

LINE MATERIAL	
DIRECT MOUNT	
Order Code	Description
	No entry required for Direct Mount
REMOTE MOUNT	
A7	Stainless Steel Armor (Std.)



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6 - BULB LENGTH SELECTION⁽⁵⁾

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

7 - OPTIONS

See pages 250-251

8 - STANDARD TEMPERATURE RANGES

See page 249

NOTES:

1. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
 2. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
 3. Not UL listed at 480 Vac.
 4. Additional line lengths available, call factory.
 5. Additional bulb lengths available, call factory.
- Switches calibrated at 70°F ambient reference.

TO ORDER THIS L-SERIES TEMPERATURE SWITCH:

Select: _____ LTA N4 H 05 A7 030 XNH 150° to 260°F

1. Function: _____

2. Enclosure: _____

3. Switch Element: _____

4. Line Length: _____

5. Thermal System: _____

6. Bulb Length: _____

7. Options (see pages 250-251): _____

8. Temperature Range (see page 249): _____

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