



| 6786 SERIES

-20°F to 350°F, Low Profile, Environmentally Sealed 1/2"

Introduction

KLIXON® 6786 low profile environmentally sealed 1/2" thermostats provide clean and positive switching action while being 60% shorter than Sensata's similar 1/2" hermetic thermostats. They are designed for use where maximum shock and vibration resistance is required and protection against dust and foreign particles is important. KLIXON® 6786 series thermostats provide rapid thermal response and a dependable circuit which makes them ideal for applications like magnetic transformers for particle accelerators, cryogenic pumps, and aircraft window glass heaters.



Features

- Environmentally sealed, low profile
- Normally open or normally closed
- Pre-set, non-adjustable calibration
- Single pole, single-throw (SPST)
- Max resistive load: 7 amp
- Operating temperature range: -20°F to 350°F (-29°C to 117°C)
- Ambient temperature range: -65°F to 400°F (-53.9°C to 204.4°C)
- Many options available including solder type terminals in parallel or opposed alignments, brackets, studs, and with or without surface mounting brackets
- UL recognized, file #E34618 (Go to UL online certifications directory web page)
- Canadian-UL (UL File #34618)



PERFORMANCE CHARACTERISTICS

The standard 6786 utilizes silver contacts. Gold plated contacts can be furnished to assure reliable circuit switching under low wattage conditions.

Contact Ratings (Resistive) Based on standard differential

30 VAC/DC	125 VAC	250 VAC	Life Cycles
5.0 Amperes	2.0 Amperes	1.0 Amperes	100,000
5.5 Amperes	3.0 Amperes	1.5 Amperes	50,000
6.0 Amperes	4.0 Amperes	2.0 Amperes	25,000
6.5 Amperes	5.0 Amperes	2.5 Amperes	10,000
7.0 Amperes	6.0 Amperes	3.0 Amperes	5,000

Characteristics

Switch Action	SPST (snap-action)
Dielectric Strength	1250 VAC, rms, 60 cycles, terminal to case
Vibration Resistance	10–500Hz, 10G, per MIL-STD-202, Method 204, Condition A (unmonitored)
Shock Resistance	30G, 11 milliseconds
Weight	2.5 grams

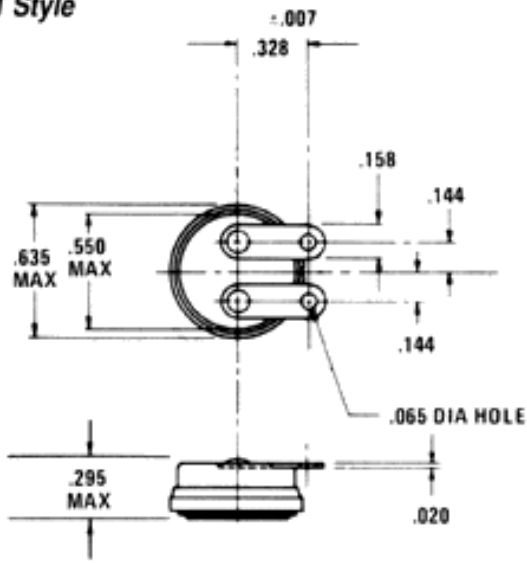
Operating Temperature

Operating Temperature		Differential		Tolerance	
°F	°C	°F	°C	±°F	±°C
-20	-28.9	30	16.7	10	5.6
0	-17.8	30	16.7	10	5.6
10	-12.2	30	16.7	10	5.6
20	-6.7	20	11.1	8	4.4
30	-1.1	20	11.1	8	4.4
40	4.4	20	11.1	8	4.4
50	10.0	20	11.1	8	4.4
60	15.6	20	11.1	8	4.4
Operating Temperature		Differential		Tolerance	
°F	°C	°F	°C	±°F	±°C
70	21.1	20	11.1	8	4.4
80	26.7	20	11.1	8	4.4
90	32.2	20	11.1	8	4.4
100	37.8	20	11.1	8	4.4
110	43.3	20	11.1	8	4.4
120	48.9	20	11.1	8	4.4
130	54.4	20	11.1	8	4.4
140	60.0	20	11.1	8	4.4
Operating Temperature		Differential		Tolerance	
°F	°C	°F	°C	±°F	±°C
150	65.6	20	11.1	8	4.4
160	71.1	20	11.1	8	4.4
170	76.7	20	11.1	8	4.4
180	82.2	20	11.1	8	4.4
190	87.8	20	11.1	8	4.4
200	93.3	30	16.7	10	2.8
210	98.9	30	16.7	10	4.4
220	104.4	30	16.7	10	4.4

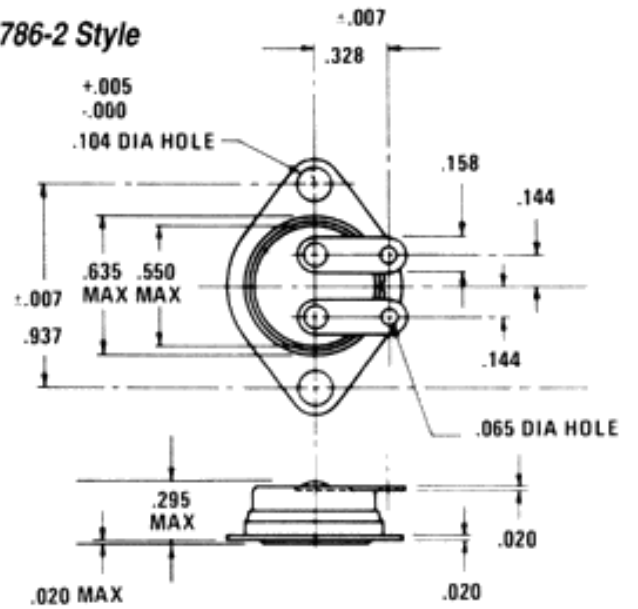
Operating Temperature (continued)

Operating Temperature		Differential		Tolerance	
°F	°C	°F	°C	±°F	±°C
230	65.6	20	11.1	8	4.4
240	71.1	20	11.1	8	4.4
250	76.7	20	11.1	8	4.4
260	82.2	20	11.1	8	4.4
270	87.8	20	11.1	8	4.4
280	93.3	30	16.7	10	2.8
290	98.9	30	16.7	10	4.4
300	104.4	30	16.7	10	4.4
Operating Temperature		Differential		Tolerance	
°F	°C	°F	°C	±°F	±°C
230	110.0	30	16.7	10	4.4
240	115.6	30	16.7	10	4.4
250	121.1	30	16.7	10	4.4
260	126.7	30	16.7	10	4.4
270	132.2	30	16.7	10	4.4
280	137.8	30	16.7	10	4.4
290	143.3	30	16.7	10	4.4
300	148.9	30	16.7	10	4.4
Operating Temperature		Differential		Tolerance	
°F	°C	°F	°C	±°F	±°C
310	154.4	40	22.2	12	6.7
320	160.0	40	22.2	12	6.7
330	165.6	40	22.2	12	6.7
340	171.1	40	22.2	12	6.7
350	176.7	40	22.2	12	6.7

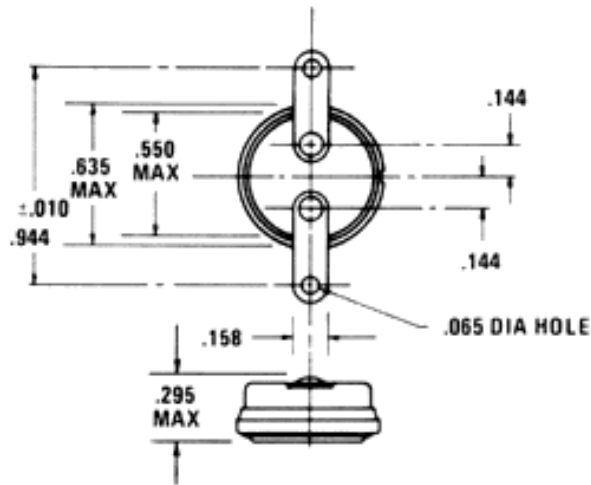
6786-1 Style



6786-2 Style



6786-3 Style





AGENCY APPROVALS & CERTIFICATIONS

UL recognized, file #E34618
Canadian-UL (UL File #34618)



WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury.

CONTACT US

AUTHORIZED DISTRIBUTORS

Americas

Flame Enterprises
 Contact Name:
 Bob Correa, Director of Product Management
 Direct Phone: +1 (240) 236-9802
 E-mail: bcorrea@flamecorp.com
 info@flamecorp.com | Web
 Tel: 1-800-854-2255 or 1-818-700-2905
 Fax: 1-818-407-5080

Peerless Electronics
 Contact Name:
 Steve Gunther, National Sales Manager
 Direct Phone: +1 (516) 594-3509
 E-mail: sgunther@peerlesselectronics.com
 nysales@peerlesselectronics.com | Web
 Tel: 1-800-285-2121
 Fax: 1-800-222-8096

Europe, Middle East & Africa

Flame Enterprises
 Contact Name:
 Bob Correa, Director of Product Management
 Direct Phone: +1 (240) 236-9802
 E-mail: bcorrea@flamecorp.com
 info@flamecorp.com | Web
 Tel: 1-800-854-2255 or 1-818-700-2905
 Fax: 1-818-407-5080

AUTHORIZED SALES REPRESENTATIVES

Country	Representative	Contact	e-mail	Phone
Brazil	Sonnensys Technologies	Maury Sampaio	maury.sampaio@sonnensys.com	+55 12 99768 1100
Austria	Telemeter	Robert Jall	rjall@telemeter.de	49 906 70693-26
Belgium	JB Controls	Jean Jacques Boher	jboher@jbcontrols.com	33 (0)1 46 91 93 30
Czech Republic	Telemeter	Robert Jall	rjall@telemeter.de	49 906 70693-26
Denmark	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
Estonia	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
Finland	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
France	JB Controls	Jean Jacques Boher	jboher@jbcontrols.com	33 (0)1 46 91 93 30
Germany	Telemeter	Robert Jall	rjall@telemeter.de	49 906 70693-26
Greece	PanSystem	Stefano Vitone	stefano.vitone@pansystem.com	39 335 7169958
Israel	Admati	Dori Shifman	dori@admati.com	972 (0)50 331 4700
Italy	PanSystem	Stefano Vitone	stefano.vitone@pansystem.com	39 335 7169958
Latvia	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
Lithuania	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
Luxembourg	JB Controls	Jean Jacques Boher	jboher@jbcontrols.com	33 (0)1 46 91 93 30
Netherlands	TBD			
Norway	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
Poland	Radiotechnika	Tomasz Póltoraczyk	tpoltoraczyk@radiotechnika.com.pl	48 7132 70 765
Portugal	PanSystem	Stefano Vitone	stefano.vitone@pansystem.com	39 335 7169958
Slovakia	Telemeter	Robert Jall	rjall@telemeter.de	49 906 70693-26
Spain	PanSystem	Stefano Vitone	stefano.vitone@pansystem.com	39 335 7169958
Sweden	Sensor Control Nordic	Peter BJÖRKDAHL	peter.bjorkdahl@scn.se	46 (0)8 122 006 92
Switzerland	JB Controls	Jean Jacques Boher	jboher@jbcontrols.com	33 (0)1 46 91 93 30
Turkey	Eltronik	Ergun Kosem	ergun@eltronik.com	90 312 440 7815
UK	Charcroft	Julie Protheroe	julie.protheroe@charcroft.com	01591 612240
Australia	AeroDefense	Trent Ralph	trent@aerodefence.com.au	+61 7 5503 0552
China	Pomic Ltd.	James Cai	James.cai@pomicltd.com	+1 (360) 915-7806
China (ACCBs only)	Shanghai Jin Feng Electronics & Inst Co	Wang Min-Gang	yonghuqian@vip.sina.com	+86-21-62712648
India	Hical Technologies	VB Venkatesh	venkatesh.vb@hical.com	+91 98450-12341
Indonesia	Precision Technologies	Aaron Lim	aaronlim@pretech.com.sg	+65 (62) 73 45 73 x125
Japan	Intertek Industries	Masa Ikeda	masai@intertekindustries.com	+1 (310) 309-9661
Korea	Aero Sensors Corp.	Jonathan Jo	jangcho@aerosensors.co.kr	+82 2 557 5355
Malaysia	Precision Technologies	Aaron Lim	aaronlim@pretech.com.sg	+65 (62) 73 45 73 x125
New Zealand	AeroDefense	Trent Ralph	trent@aerodefence.com.au	+61 7 5503 0552
Singapore	Precision Technologies	Aaron Lim	aaronlim@pretech.com.sg	+65 (62) 73 45 73 x125
Taiwan	Sensata Technologies	Bob Jacques	bjacques@sensata.com	+1 (805) 716-0586

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.