

Thermostat KO/KS/KB

Thermostat with snap-action disk: regulator, automatic controller, limiter

ISO 9001
BUREAU VERITAS
Certification



Applications

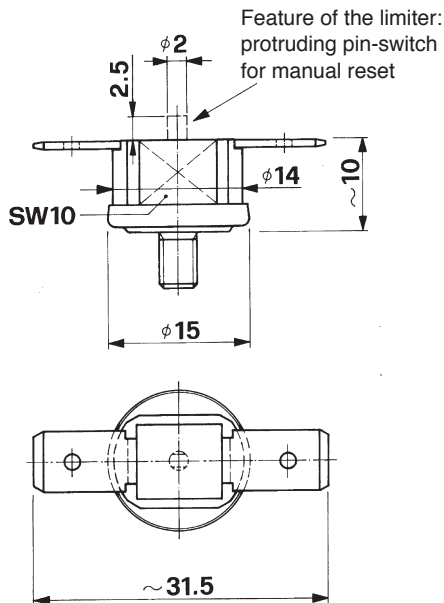
The very compact snap-action disk thermostats are designed for current loads of up to 16A and have a wide range of applications. These thermostats can be used in regulator applications to maintain a constant temperature (normally closed or normally open); they can be used as thermal switches in monitoring applications (normally closed or normally open); or they can be used as limiters (normally closed) with mechanical resetting.

The thermostats are used everywhere where overheating protection is required in a minimum of space.

- Domestic appliances
- Coffee machines
- Electrical equipment
- Motors
- Heaters



General dimensions*



Technical specifications

Switching performance

KS	{ 16 (4) A 250 V ac
KO	{ 6'000 switching cycles
KB	{ 16 (4) A 250 V ac
	{ 2'500 switching cycles

Maximum speed of
Temperature change

10° K/Min

Differential gap

10° – 20°C
(smaller values on request)

Maximum switching temp. KO/KS

190°C

KB 180°C

Electrical insulation

> 2800 V

Design

As per EN 60730
• micro-contact-breaker
• type 1C

Contact material

Silver alloy
(KO/KS in gold
on request)

Approval

VDE, UL etc.

* Detailed dimensions and a key to the order numbers are given on the following pages



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KO: Contact opens on temperature rise
 KS: Contact closes on temperature rise
 KB: Contact opens on temperature rise,
 manual reset

KO = circuit breaker, KS = circuit closer, KB = circuit limiter

		x	x	x	x	x	x	x	±	x	x
		x	x	x	x	x	x	x	±	x	x
Fig. 4	Flat plugs										
Fig. 6	Flat plugs										
Fig. 8	Insulated strand 0.5 mm ²										
Fig. 8	Insulated strand 0.5 mm ²										
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Fig. 9	Connections sideways without cable										
Fig. 10	«Crimp-lugs»										
	Flat cover without flange										
Fig. 11	Flange with bilateral mounting										
Fig. 12	Flange with unilateral mounting										
Fig. 13	Cover with arresting flange										
Fig. 13	Cover with arresting flange										
Fig. 13	Cover with arresting flange										
Fig. 13	Cover with arresting flange										
Fig. 14	Special longitudinal flange for M-4 screws										
Fig. 15	Special longitudinal flange for 2 thermostats										
Fig. 16	Flange with bilateral mounting, recessed										
Fig. 17	Screw mounting										
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Fig. 18	Encapsulated bimetallic disk										
Fig. 19	Uncovered bimetallic disk										
Fig. 20	Lengthening reset cap for limiter										
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	Tolerance ± 10 °K	Tolerance ± 5 °K	Tolerance ± 3 °K
	°C	°C	°C
005	-	-	-
015	15°	-	-
020	20°	20°	-
030	30°	30°	30°
035	-	35°	35°
040	40°	40°	40°
042	-	-	42.5°
045	-	45°	45°
047	-	-	47.5°
050	50°	50°	50°
053	-	-	53°
056	-	56°	56°
060	-	-	60°
063	63°	63°	63°
067	-	-	67°
071	-	71°	71°
075	-	-	75°
080	80°	80°	80°
085	-	-	85°
090	-	90°	90°
095	-	-	95°
100	100°	100°	100°
106	-	-	106°
112	-	112°	112°
118	-	-	118°
125	125°	125°	125°
132	-	-	132°
140	-	140°	140°
150	-	150°	-
160	160°	-	-
170	-	-	-
180	180°	-	-
190	190°	-	-

Specimen order: KS 660 071 ± 05 = Regulator/Controller; insulated strand connection 0,5 mm², length = 150 mm;
 screw mounting M4 x 10; encapsulated bimetallic disk; circuit closing contact;
 trigger temperature 71 °C ± 5 °K



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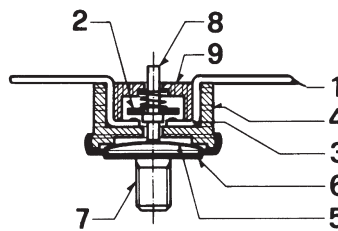
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Mode of action

The thermostats respond to a fixed temperature that is determined by a snap-action bimetallic disk. The action of the bimetallic disk is mechanically transmitted to a bridge contact via a transfer pin, so that the electrical circuit is either open or closed, depending on the state of the bimetallic disk.



Key

- 1 = Connection
- 2 = Contact plate
- 3 = Double contact-breaker
- 4 = Housing
- 5 = Bimetallic disk
- 6 = Heat-conducting plate
- 7 = Fixing screw (various)
- 8 = Pin-switch (various)
- 9 = Cover

Note

It is the responsibility of the customer to verify the suitability of the intended use. We can provide no guarantees in this regard. However, we will be happy to advise you.

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