Thermal Switch. Product Overview They're everywhere you look.



ELECTRICAL CONNECTION Flat-cable plug DIN 46244 **Screw Connection** Soldering- welding- & lead wire terminal A009 Specification on A008 A003 4 8x0 8x9 A004 6,3x0,8x°

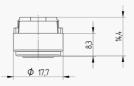
LOCK CAPS AND FASTENING CONNECTION

Lock caps - standard Material: Al or CrNi









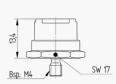
Kx/HCx/VCx/S0/HCS0 B001

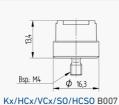
Kx/HCx/VCx/S0/HCS0 B002

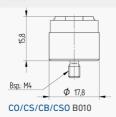
CO/CS/CB/CSO B004

Lock caps with screw fitting Material: Brass, standard threads m4x6, other sizes available









Lock caps with fastening flange Cap with fixed flange, (Material CrNi) / Air flange cap (Material Al or CrNi)





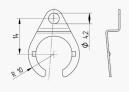


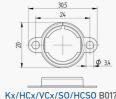




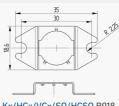
LOOSE FLANGES

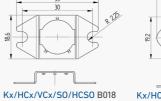
For all elecrical terminals





For 90° beut off terminals only









Kx/HCx/VCx/S0/HCS0 B016

Thermostats / temperature limiters

SPECIAL DESIGNS

Bimetal Snap Disk Ø 12,7mm and 17mm



Switching temperature range -25°C up to 360°C, Tolerances and hysteresis of switching temperatures upon request







Special designs with diverse electrical and fastening connections, sealed sleeves, wire connections, trip-free mechanism as well as sensors with NTC- / PTC-starters are avai-

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worldwide





- **Automatic Operation**
- Manual Reset
- Electric self-holding contacts (for reset, interrupt from the line)
- Single Operation Devices (SOD)
- Automatic Operation incl. time-delayed release by internal heating resistor

For solutions to your development and manufacturing tasks

EAW Relaistechnik GmbH has been successfully working in the market segment of temperature switches with bimetallic snap disks for more than 40 years. As a result, our employees have a wealth of experience. This is a guarantee that with ½ "thermostats from our diverse product range you will always find the optimal solution for temperature monitoring and control.

Individual designs according to your specifications

For the electrical connection or for the installation of ½ "thermostats, we have a comprehensive range of parts in our program. If required, we also produce special application-related solutions according to your documentation or requirements. The design of the switch contacts can be varied for the smallest switching loads from 10mA / 10mV up to switching loads of 16A / 400VAC.

Technical Paramters, Application and Tests

The technical parameters contained in the data sheet apply in conjunction with the test methods and equipment customary in our company and refer to the delivery condition of the products. In applications and use of other test methods differences to the measurement result are possible. The adaptation of our thermoswitches and proof of suitability for the intended use are to be carried out by the customer. A quarantee for mismatches and a use of the products outside the specified technical parameters is excluded. In addition, the guarantee for the installation of our products, which have been stored over a period of more than one year is not adopted (this period may be lower in aggressive environments). Changes in the interest of technical progress we reserve the right.

If you need samples, please use our inquiry form for thermoswitches on our website: www.eaw-relaistechnik.de

CE- and RoHS-Identification: The products of EAW Relaistechnik GmbH and labeled with CE- and RoHS-labels on their devices, packaging or in the documentation.

Quality system: Quality management according to DIN EN ISO 9001 Documented proof: certificate Standard quality: production-related routine inspection, voltage test, switching temperature test (limit value control)

DESIGN	TEMP. CONTROLLER		TEMP. CONTROLLER		TEMPERATURE CONTROLLER	TEMPERATURE CONTROLLER		
Type & Housing material	KO NC Contact KS NO Contact Plastic	HCO NC Contact HCS NO Contact Ceramic	VCO NC Contact VCS NO Contact Ceramic	CO NC Contact CS NO Contact Ceramic	CW Changeover Contact Ceramic	THO NC Contact THS NO Contact Plastic	TGO NC Contact TGS NO Contact Plastic	
Function	مــــــــــــــــــــــــــــــــــــ	2			Changed an	Open respec	etively close	
	Open respective	ely close an electrical co	entact when the temperature rises or falls		electrical contact when the temperature rises or falls	an electrical contact when the temperature rises or falls		
Reset Type	Automatically				Automatically			
Rated Voltage DC on Request	250	250VAC		400VAC	250VAC	250VAC		
Rated current resistiv inductive, DC on Request	16A / 6A	16A / 6A (≤ 200°C) 4A / 1,5A (>200°C)	16A / 6A (≤ 200°C) 4A / 1,5A (>200°C)	16A / 6A (≤ 200°C) 4A / 1,5A (>200°C)	10A / 1,6A	16A / 6A		
Switching Cycles	100.000 (10A) 10.000 (16A)	100.000 (10A) 10.000 (16A ≤ 200°C / 4A >200°C)	100.000 (10A) 10.000 (16A ≤ 200°C / 4A >200°C)	10.000 (10A ≤ 200°C / 4A >200°C) 1.000 (16A)	50.000	100.000 (10A) 10.000 (16A)		
Isolation Base/Disconnection Veff, 50Hz	2kV / 0,5kV	2kV / 0,5kV	2kV / 0,5kV	2kV / 0,88kV	2kV / 0,5kV	2kV / 0,5kV		
Switching Temperature	-25 bis 200°C	-25 bis 360°C (Öffner) -25 bis 340°C (Schließer)	-25 bis 360°C (Öffner) -25 bis 340°C (Schließer)	-25 bis 360°C (Öffner) -25 bis 340°C (Schließer)	-25 bis 200°C	-25 bis 120°C		
tolerance other Values on Request	±3K, ±5K, ±8K	±3K, ±5K, ±8K (≤ 200°C) ±10K, ±15K (> 200°C)	±3K, ±5K, ±8K (≤ 200°C) ±10K, ±15K (> 200°C)	±3K, ±5K, ±8K (≤ 200°C) ±10K, ±15K (> 200°C)	±3K, ±5K, ±8K	±3K, ±5K, ±8K		
Switching temperature difference standard / minimum	15K / 5K	15K / 5K (< 300°C) 100K / 50K (≥ 300°C)	15K / 5K (< 300°C) 100K / 50K (≥ 300°C)	15K / 5K (< 300°C) 100K / 50K (≥ 300°C)	15K / 5K	15K / 5K		
Contact Resistance Au/Ag/AgPd	≤10mΩ/≤25mΩ/	≤10mΩ/≤25mΩ/≤75mΩ	≤10mΩ/≤25mΩ/≤75mΩ	≤10mΩ/≤25mΩ/≤75mΩ	≤25mΩ	≤10mΩ/≤25mΩ/		
min. rate of change of the test temperature	0,5K/min		0,5K/min		0,5K/min	0,5K/min		
Ambient Temperature Limits	-40 bis 200°C	-40 bis 400°C	-40 bis 400°C	-40 bis 400°C	-40 bis 230°C	-40 bis 120°C		
Ingress Protection Rating	IP40		IP40		IP40	IP40	IP65	
Dimensions	33 65 80 40 16,3	33 61 90 01 03 04 16.3	22.5 \$2.5 \$7.1 \$4.1 \$4.1	33 Ф 17,8	32 0 0 0 0 0 178	92 SW22 So	© 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18	
Certifications	VDE/UL/CSA	VDE/VDE-CB	VDE (≤ 200°C)	VDE (≤ 200°C)	VDE	CE		
Product Standard	DIN EN 60730 UL873 CSA C22.2 Mo. 24	DIN EN 60730	DIN EN 60730	DIN EN 60730	DIN EN 60730	DIN EN 60730		

		MANUAL RESET TI	HERMAL CUT-OUTS		ELECTRIC SELF-HOLD TEMPERATURE LIMITERS —					
PROTECTION TEMPERATURE LIMITER			OPERATING TEMPERATURE LIMITER			SELF-I	HOLDER	SELF-HOLDER		
KB(F) Plastic	HCB Ceramic	VCB Ceramic	CB Ceramic	C2B Ceramic	K3B(F) Plastic	S0 Plastic	HCSO Ceramic	VCSO Ceramic	CSO Ceramic	
TO THE DAY OF THE PARTY OF THE	BEAU HEE	EAN	avs /			EFIL	FRU	ERI	STAGE 185	
Open an electr	cal contact when the ten	nperature rises	Open an electrical contact when the tempe	rature rises		Open an electrical contact	when the temperature rises	Open an electrical contact v	when the temperature rises	
Manually						Electrical				
	250VAC		400VAC	400VAC	3 x 250VAC	250	DVAC	250	VAC	
16A / 6A	16A / 6A (≤ 200°C) 4A / 1,5A (>200°C)	16A / 6A (≤ 200°C) 4A / 1,5A (>200°C)	16A / 6A (≤ 200°C) 4A / 1,5A (>200°C)	25A	16A / 6A	16A / 6A		16A / 6A		
3.000 (10A) 1.000 (16A)	1.000 (16A, ≤ 200°C) 500 (4A, >200°C)	1.000 (16A, ≤ 200°C) 500 (4A, >200°C)	10.000 (10A, ≤ 200°C) 1.000 (16A, ≤ 200°C / 4A >200°C)	1.000	1.000	3.000 (10A) 1.000 (16A)		3.000 (10A) 1.000 (16A)		
2kV / 0,5kV	2kV / 0,5kV	2kV / 0,5kV	2kV / 0,88kV	2kV / 0,88kV	2kV / 0,5kV	2kV / 0,5kV		2kV / 0,5kV		
-25 bis 200°C -25 bis 120°C (mit Freiauslösung)	-25 bis 360°C	-25 bis 360°C	-25 bis 360°C	-25 bis 200°C	-25 bis 120°C	-25 bi	s 200°C	-25 bis 200°C		
±3K, ±5K, ±8K	+3K +5K +8K (< 200°C) +3K +5K +8K (< 200°C)		±3K, ±5K, ±8K (≤ 200°C) ±10K, ±15K (> 200°C) ±3K, ±5K, ±8K		±3K, ±5K, ±8K	±3K, ±5K, ±8K		±3K, ±5K, ±8K		
manual Reset			manual Reset			Reset by Interrupting the Load Circuit		Reset by Interrupting the Load Circuit		
≤10mΩ/≤25mΩ/	≤10mΩ/≤25mΩ/≤75mΩ	≤10mΩ/≤25mΩ/≤75mΩ	≤10mΩ/≤25mΩ/≤75mΩ	≤25mΩ	≤25mΩ	≤25mΩ		≤25mΩ		
	0,5K/min		0,5K/min			0,5K/min		0,5K/min		
-40 bis 200°C -25 bis 120°C (mit Freiauslösung)	-40 bis 400°C	-40 bis 400°C	-40 bis 400°C	-40 bis 200°C	-40 bis 175°C	-40 bis 200°C	-40 bis 230°C	-40 bis 230°C		
	IP40		IP40			IP40		IP40		
φ 16,3	φ 16,3 _	φ 16.3	33 202 202 4 4 18 4 4 18 4 18 4 18 4 18 4 18 4 18	34,1	0 53 40	φ 16,3	β 33 Φ 16,3	22.5 \$2.5 \$7.1 \$7.1	φ 17,8	

VDE/UL/CSA

DIN EN 60730 UL873

CSA C22.2 Mo. 24

VDE/VDE-CB

DIN EN 60730

VDE/VDE-CB

DIN EN 60730

VDE (≤ 200°C)

DIN EN 60730

CE

DIN EN 60730

CE

DIN EN 60730

VDE/UL/CSA

DIN EN 60730 UL873 CSA C22.2 Mo. 24 CE

DIN EN 60730

CE

DIN EN 60730

A click above

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So when it comes to developing customized solutions both for and with our customers, not to mention setting the bar for standards, we have years of experience behind us. All of the premium quality you'd expect from anything a "Made in Germany" label.



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