# TKC: Thermostat with remote sensor, for industrial use

## How energy efficiency is improved

Controlling and monitoring as required, without auxiliary energy.

### Areas of application

For controlling and monitoring the temperature of liquids and gases in baths, tanks, pipelines, air ducting and heating chambers. Especially suitable for equipment that is subject to vibrations.

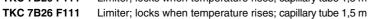
#### Features

- Temperature range 0 to 295 °C
- -40 to +320 °C permissible sensor temperature
- Contact rating: 1 mA , 6 V to 10 A, 400 V
- Gold-plated silver contacts
- Upper and lower switching points can be set independently
- Sealable
- 20 sec. time constant in water at 0.25 m/s

### **Technical description**

- Light-alloy housing with transparent cover
- Splash-proof
- Ambient temperature: -40 to +70 ° C
- IP 67 with accessories
- 1.5, 3 or 6 m capillary tube length

°C     K     °C     mm     kg       TKC 7B17 F001     045     1,82,5     -4065     180     0,8       TKC 7B20 F001     40110     1,65,0     -40165     125     0,8       TKC 7B20 F001     60140     2,04,5     -40165     125     0,8       TKC 7B20 F001     100180     1,85,0     -40205     125     0,8       TKC 7B32 F001     160250     2,56,5     -40275     125     0,8       TKC 7B35 F001     210295     2,55,0     -40320     125     0,8       Contact rating as silver contacts <sup>2</sup> ) for higher loading max.     10(2) A, 400 V     25 W, 250 V=     100 mA, 24 V     120 s     Permissible ambient temp.     -4070 °C       Degree of protection     IP 44 (EN 60529)     Protection class     I (IEC 60730)     Viring diagram     A01497       min.     100 mA, 24 V     as gold contacts <sup>3</sup> ) for lower loading max.     20 s     Wiring diagram     A01497       Time constant in water 0,25 m/s without sheath     20 s     Wiring diagram     A01497       D		n capillary tube le	•	Dermissible	0	Wainht	
°C     K     °C     mm     kg       TKC 7B17 F001     045     1,82,5     -4065     180     0,8       TKC 7B20 F001     40110     1,65,0     -40135     125     0,8       TKC 7B23 F001     60140     2,04,5     -40165     125     0,8       TKC 7B26 F001     100180     1,85,0     -40205     125     0,8       TKC 7B32 F001     160250     2,56,5     -40275     125     0,8       TKC 7B35 F001     210295     2,55,0     -40320     125     0,8       Contact rating as silver contacts <sup>2</sup> ) for higher loading max.     10(2) A, 400 V-     25 W, 250 V=     Degree of protection     IP 44 (EN 60529)       Protection class     I (IEC 60730)     Permissible ambient temp.     -4070 °C       as gold contacts <sup>3</sup> ) for lower loading max.     200 mA, 50 V     Wiring diagram     A01497       min.     1 mA, 6 V     Dimension drawing     M259247       Time constant in water 0,25 m/s without sheath     20 s     Wiring diagram     A01497       Wiring diagram	Туре	Setting range	min. switching	Permissible sensor temp	Sensor cartridge	Weight	
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TKC 7B23 F001   60140   2,04,5   -40165   125   0,8     TKC 7B26 F001   100180   1,85,0   -40205   125   0,8     TKC 7B32 F001   160250   2,56,5   -40275   125   0,8     TKC 7B35 F001   210295   2,55,0   -40275   125   0,8     Contact rating as silver contacts <sup>2</sup> ) for higher loading max.   10(2) A, 400 V~   25 W, 250 V=   Degree of protection   IP 44 (EN 60529)     min.   100 mA, 24 V   as gold contacts <sup>3</sup> ) for lower loading max.   200 mA, 50 V   Permissible ambient temp.   -4070 °C     Degree of protection   IP 44 (EN 60529)   Protection class   I (IEC 60730)     as gold contacts <sup>3</sup> ) for lower loading max.   200 mA, 50 V   Wiring diagram   A01497     Dimension drawing with sheath   20 s   Wiring diagram   M259247     Titting instructions   MV 23155   WV 23155     Variants (otherwise as F001)   TKC 7B20 F003   Capillary tube 3 m long   K7 7B20 F005   Capillary tube 6 m long     TKC 7B20 F005   Capillary tube 6 m long   TKC 7B26 F005   Capillary tube 6 m long   TKC 7B32 F005   Capillary tube	TKC 7B17 F001	045	1,82,5	-4065	180	0,8	
TKC 7B26 F001   100180   1,85,0   -40205   125   0,8     TKC 7B32 F001   160250   2,56,5   -40275   125   0,8     TKC 7B35 F001   210295   2,55,0   -40320   125   0,8     Contact rating as silver contacts <sup>2)</sup> for higher loading max.   10(2) A, 400 V~ 25 W, 250 V=   126 constant in air 0.5 m/s   120 s     min.   100 mA, 24 V   25 W, 250 V=   Degree of protection   IP 44 (EN 60529)     min.   100 mA, 24 V   as gold contacts <sup>3)</sup> for lower loading max.   200 mA, 50 V   Degree of protection   IP 44 (EN 60529)     Prite constant in water 0,25 m/s without sheath   20 s   Wiring diagram   A01497     Dimension drawing with sheath   30 s   M259247   Fitting instructions   MV 23155     Variants (otherwise as F001)   TKC 7B20 F003   Capillary tube 3 m long   KC 7B20 F003   Capillary tube 3 m long     TKC 7B20 F003   Capillary tube 6 m long   TKC 7B23 F005   Capillary tube 6 m long     TKC 7B26 F005   Capillary tube 6 m long   TKC 7B26 F005   Capillary tube 6 m long     TKC 7B26 F005   Capillary tube 6 m long   TKC 7B26 F005   Capillary tube	TKC 7B20 F001	40110	1,65,0	-40135	125	0,8	
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<b>TKC 7B20 F501</b> Aluminium cover with inspection glass; IP 67; cable screw fitting Pg 13,5; 1,5 m							
		Limiter; locks when temperature rises; capillary tube 1,5 m					



1) The small values apply to the high setting points, the large values to the low ones.

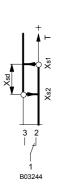
If under inductive load, take RC circuit into account.
If the contacts are ever loaded higher than 200 mA

3) If the contacts are ever loaded higher than 200 mA, 50 V, the gold plating will be damaged.

The contacts are then classed only as silver contacts, since they lose the properties of gold contacts.







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Accessories				
0044529 000	Plug spanner for the setting screws			
0036787 000*	Brass R <sup>1</sup> / <sub>2</sub> screw fitting with stuffing box; 12 bar, 180 °C			
0144313 000*	Stainless steel R <sup>1</sup> / <sub>2</sub> screw fitting with stuffing box; 12 bar, 180 °C			
0233310 000	Aluminium cover with window (with accessory 0259299 000 = IP 54)			
0259189 000*	Bracket for off-wall mounting			
0259299 000	Cable screw fitting Pg 13,5			
0259409 000*	Bracket (for 3-point fixing when used with 0259189)			
0303212 000*	Rubber grommet as an inlet for the capillary tube in air ducts; T < 50 $^{\circ}$ C			
0364140 000*	Bushing for tension relief, for thermostats with capillary tube			
0364244	LW 15 pockets, R <sup>1</sup> / <sub>2</sub> , of brass; see chapter 29			
0364258	LW 15 pockets, G <sup>1</sup> / <sub>2</sub> A; of stainless steel; see chapter 29			
0364346	LW 15 pockets, G <sup>1</sup> / <sub>2</sub> A; of brass; see chapter 29			
*) Dimension drawing or wiring diagram are available under the same number				

## Operation

Whenever the temperature exceeds the upper switching point (which can be set on the right-hand scale), the contacts switch over from 1-2 to 1-3.

When the temperature falls below the lower switching point (which can be set on the left-hand scale), the contacts switch over from 1-3 to 1-2.

The vibration-proof snap-action switch has a pre-loaded spring which prevents the change-over mechanism from operating until the switching point has been attained. This ensures that the contacts remain fully closed right up to the switching point, even if operation is very slow.

### Additional technical data

Complies with:-Directive 2006/95/EC EMC directive 2004/108/EC

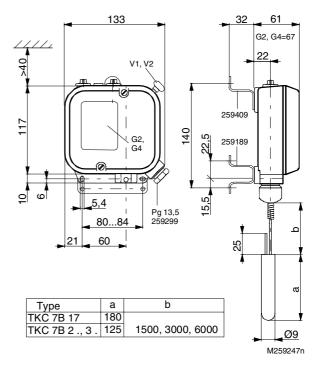
EN 60730-1/ EN 60730-2-9 EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4

## Wiring diagram

## **Dimension drawing**



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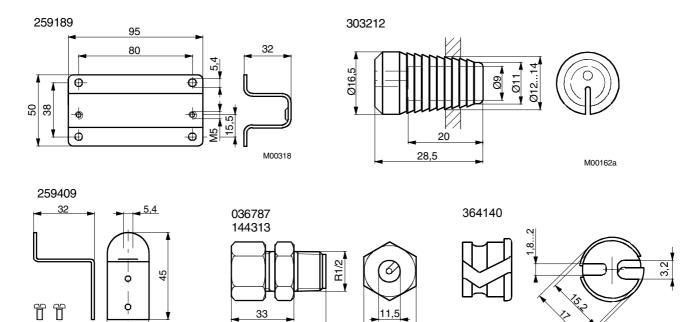


M00161b

### Accessories

22

M00314



s27

M00323

50