Product data sheet 21.201

TLC: Thermostat with room sensor, for industrial use

How energy efficiency is improved

Control and monitoring according to needs and with no auxiliary energy

Features

- · Control and monitoring of temperature
- Especially suitable for installations subject to vibrations, industrial spaces, halls, etc.
- 0...45 °C temperature setting range
- 1 mA / 6 V to 10 A / 400 V contact rating
- · Gold-plated silver contacts
- · Upper and lower switching points can be set independently of each other
- Sealable
- Splashproof

Tochnical data

Technical data			
Power supply			
Admissible contact r loads	ating for smaller	Maximum load with gold-plated contacts	200 mA, 50 V
		Minimum load with gold-plated contacts	1 mA, 6 V
Admissible contact ra loads	ating for larger	Maximum load with silver-plated contacts	10 (2) A, 400 V~ 25 W, 250 V=
		Minimum load with silver-plated contacts	100 mA, 24 V
Time characteristic		Time constant at 0.15 m/s	12 min
		Time constant at 0.5 m/s	8 min
Parameters			
		Setting range	045 °C
		Lowest switching difference	1.02.2 K
Ambient conditions			
		Storage and transport temperature	-4055 °C
		Admissible ambient temperature	-4055 °C
Construction			
		Weight	0.65 kg
		Housing	Light-alloy housing with transparent cover
Standards and direc	tives		
		Type of protection	IP44 (EN 60529)
		Protection class	I (IEC 60730)
CE conformity according to		EMC Directive 2004/108/EC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
		Low-voltage directive 2006/95/EC	EN 60730, EN 60730-2-9
Overview of types	;		
Type D	escription		
TLC7B17F001 T	Thermostat with room sensor, for industrial use		
Accessories			
Type D	Description		
0259189000 H	Holder for raised wall mounting		
0259299000 C	Cable screw fitting PG 13.5		
0259409000 F	Fixing bracket (provides 3-point fixing with accessory 0259189)		

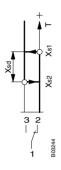
Description of operation

When the temperature exceeds the upper change-over point (which is set in the scale on the right), the contacts switch from 1-2 to 1-3.



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> When the temperature falls below the lower change-over point (which is set in the scale on the left), the contacts switch from 1-3 to 1-2. The vibration-proof snap-action switch has a pre-loaded spring that only activates the change-over mechanism when the change-over point has been reached. As a result, the contact force is maintained up to the change-over point even when the switch is activated very slowly.

Technical appendix

RC circuitry for inductive load

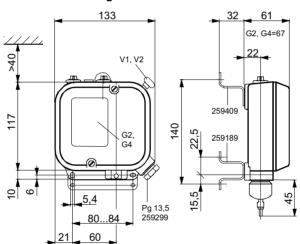
For the optimum RC circuitry, see the information from manufacturers of gates, relays, etc. If this is not available, the inductive load can be reduced by applying the following rule of thumb:

- Capacity of the RC circuitry (µF) equal to or greater than the operating current (A)
- Resistance of the RC circuitry (Ω) approx. the same as the resistance of the coil (Ω)

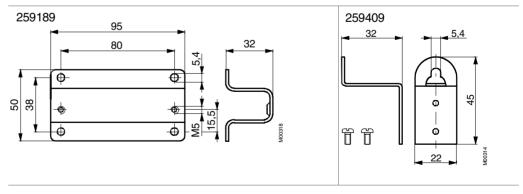
Connection diagram



Dimension drawing



Accessories



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