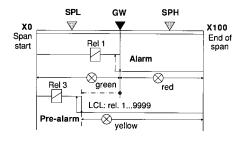


PROFILE

The Temperature limiter TB 40 has been given Safety Approval according to DIN 3440. This enables it to be used as a safety cut-out in heating plants. If the pre-set limit value is exceeded, output relay 1 is de-energized and remains locked in this state, even if the process value falls back below the limit.

Functional description



The limit value (GW) is adjusted by means of the front-panel keys, and is only possible if an internal switch is closed and a code number has been entered.

With process value X higher than limit value GW, relay 1 is de-energized and remains locked.

When X falls below GW, the relay can be reset by means of front panel keys or via an external contact.

Switching difference of the contacts: 1 digit

Action of input circuit monitor: same as $X \gg GW$

Further technical data: see KS 40

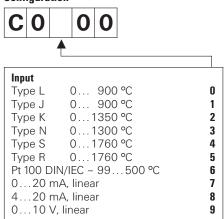
Parameter adjustment ranges

Parameter	Symbol	Adjustment range	Remarks
Pre-alarm	LCL ¹⁾	rel. 19999	
Reset	Loc ²⁾	03	
Lower set-point limit	SPL	X ₀ X ₁₀₀	Adjustment range corresponds
Upper set-point limit	SPH	X ₀ X ₁₀₀	to input span (see configuration)
Decimal point	dP ³⁾	0 or 1	0 = no decimal point
Lower input limit	InL ³⁾	- 9999999	x ₀ Span start
Upper input limit	InH ³⁾	- 9999999	x ₁₀₀ End of span

- Setting of pre-alarm is relative to the limit value GW. If LCL is adjusted to a value less than 1, the display shows "----", and the pre-alarm is switched off.
- $^{2)}$ Loc = 0: Resetting only via front keys.
 - Loc = 1: Resetting only via external contact.

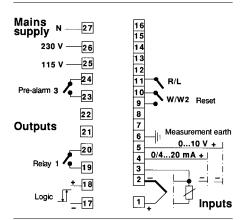
 - Loc = 2: As Loc 0, but process value X is only displayed on alarm. Loc = 3: As Loc 1, but process value X is only displayed on alarm.
- $^{3)}$ Only with inputs 0/4 ... 20 mA and 0 ... 10 V (see configuration)

Configuration



Factory setting: C0000

Connections



ORDERING DATA

Temperature	Order no.
limiter TB 40	9404 407 46021