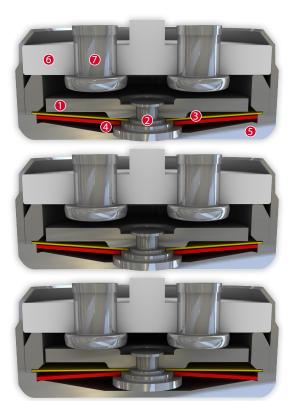


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DATASHEET Thermal Protector L08

Type series 08





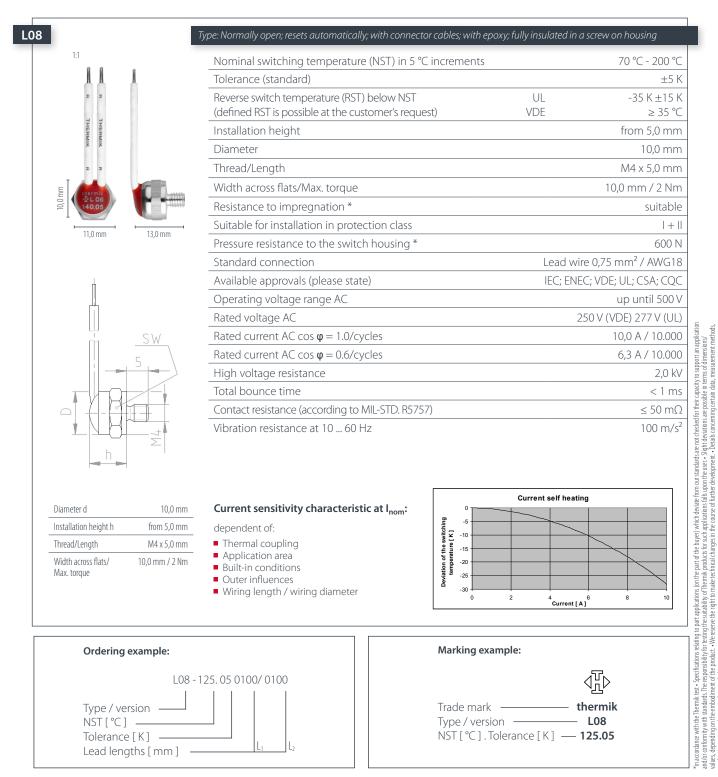
Switchgear consisting of a mobile and circular contact bridge (1), a contact bearing pin (2), a spring snap-in disc (3) and a bimetallic disc (4) which is riveted into one another, undetachable and fixed in a positive lock and self-aligning between a non-conductive floor of a housing (5) and an insulating ceramic bearing (6) with two integrated stationary contacts (7) as electrodes. At the same time, the switchgear is initially held open by the spring snap-in disc (3) with the contact bridge (1) acting as a transfer element for electric current after the switching process) which is fastened between a supporting collar and a circumferential ring. As such, the bimetallic disc (4) underlying it, that is also stuck out from the contact bearing pin (2), can continuously work (exposed) by mechanical loads without the distance between the contact surfaces (defined by the spring snap-in disc (3) diminishing. As soon as the bimetallic disc (4) reaches its rated switching temperature, it effectively springs against the throw force of the spring snap-in disc (3) into its inverted position. The contacts (7) are abruptly closed. The temperature will now fall. The bimetallic disc (4) will only snap back upon reaching a defined spring back temperature and the contacts will be abruptly opened again. As a result of the dimensioning of the contact bearing pin (2), an easy, circular rotation of the circle-shaped contact bridge (1) is enabled with every switch so that transfer resistances remain constantly below the minimum limit after many switch cycles and the long term stability is sustained even under high levels of stress.



Features:	
Small dimensions	to fit closely built-up circuits
Quick response sensitivity	featured by small protector mass and excellent heat transfer from the me- tal-housing to the bimetallic disc
Excellent long term performance	due to instantaneous switching, fine-silver contacts, constant contact resistance and to electrically as well as mechanically unstressed bimetallic disc, reproducible switching temperature values
Very short bouncing times	< 1 ms
Instantaneous switching	always with the same contact pressure up to reset point; resulting in low contact stress
Temperature resistance	by use of high temperature resistant materials and components

Technical Data Type L08

The listed products are an extract from our standard range. Other versions and customised manufacturing are available upon request.



More varieties of the type series 08:

- C08 with connector cables; with epoxy; without insulation
- S08 with connector cables; with epoxy; insulation: Mylar®-Nomex®
- P08 with connection pins; with epoxy; fully insulated in the attachment housing
- H08 with connector cables; with epoxy; fully insulated in the attachment housing
- V08 with connector cables and double-insulated in the attachment housing

www.thermik.de/data/C08 www.thermik.de/data/S08 www.thermik.de/data/P08 www.thermik.de/data/H08 www.thermik.de/data/V08

