

- Process and temperature inputs**

Volt ,mA, potentiometer, NTC

PTC for thermic protection of machines  
according to DIN 44082

- 1000 pts LED display for measurement**

- Internal or external threshold**

setting with push buttons (under the cover)  
or with analog signal (4...20mA/0...10V)

- 1 or 2 output relays, 10A changeover contact**

- Application**

thermal protection relay, thermostat  
threshold relay for 4 ... 20mA current loop



The DSL35L is a compact relay, allowing from an analog input, to define one or two independent thresholds to implement a simple regulation or a protection process. The measured value is readable on a 3 digits LED display.

#### DESCRIPTION :

##### standard inputs :

- voltage : Volt DC
- current : mA, A DC
- resistance 2 wires mounting
- potentiometer 3 wires (3.3V potentiometer ref.)
- NTC,
- PTC (1 à 9 PTC in series), stator winding,
- frequency

##### Special inputs : (mA, V, resistance)

- sum of two not-isolated inputs,
- difference of two not-isolated inputs,
- average of two not-isolated inputs,
- two inputs, maximum value selection,
- two inputs, minimum value selection,
- Humidity and temperature probe [SHL18](#) with supply

##### digital input : (option)

- lock or rearming,

##### Front panel :

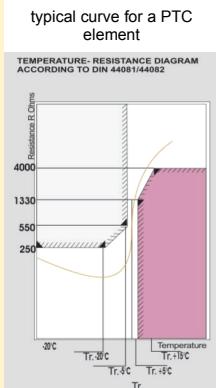
- measure display : 7 segments 3 digits (1000 pts) green LED, 10 mm height.
- sensor breaking or over range detection (display : LO ; HI )
- 2 green LED for the alarm status
- 2 push buttons under the hinged front face for device setting

##### Relay :

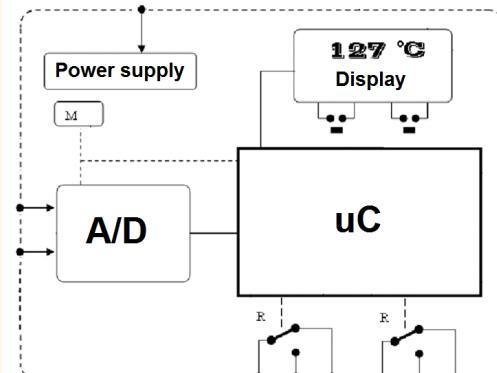
- output potential-free changeover contact can be used in alarm, ON/OFF regulation, thermostat, ...
- threshold, direction (hot, cold), hysteresis and delay are adjustable with the front panel push buttons.

##### Feature :

- Symmetrical DIN rail mounting according to EN50022
- Connection on spring terminals blocks max : 1 mm<sup>2</sup>
- Isolation : power / input / relay
- IP20 protection + electronic conformal coating
- Firmware update possible via rs232 link



#### Synoptic :



#### Version and order code:

[Request a quote](#)

**DSL35L/R1:** - 1 electromechanical relay, 10A  
**DSL35L/R2:** - 2 electromechanical relays, 10A

input type and range to be defined

**DSL35L-Cext:** - external setpoint option

**• Option /Ts:** fast version < 3ms static relay 1 NO  
(300Vac-dc 0.1A or 60Vdc 0.5A to be defined )

Special versions : (available with 1 or 2 thresholds)

**DSL35L-SVL** 2 inputs, mini or maxi value selector  
(selection type and input type to be defined)

**DSL35L-Dif** difference from 2 inputs  
(signed, unsigned, absolute : to be defined)

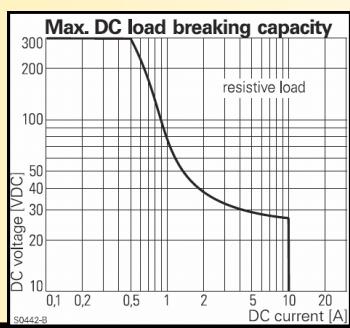
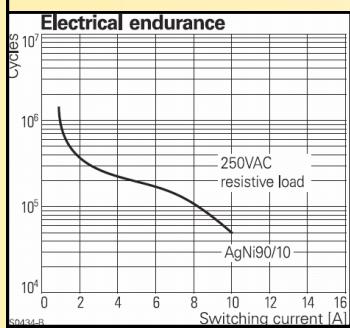
**DSL35L-SOM** summation or average from 2 inputs

**INPUT**

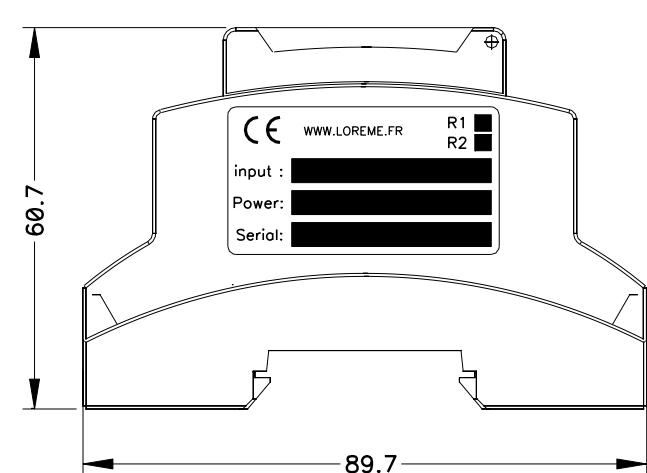
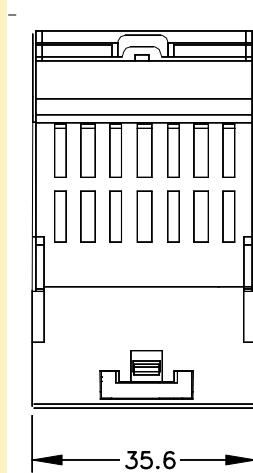
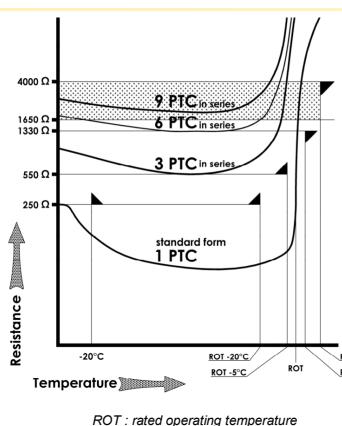
TYPE	RANGE	PRECISION
Dc voltage	1V ... 1000 V	+/- 0.5% of range
Dc current mA, A	1 mA .... 1 A	+/- 0.5% of range
Resistance	100ohms....10Kohms	+/- 0.5% of range
Frequency	1Hz ....1KHz	+/- 1% of value

**RELAYS**

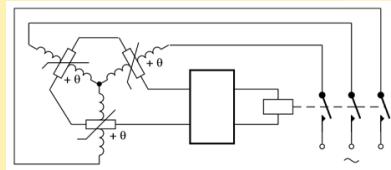
Changeover contact. Isolation:	1500 Vac
Switching capacity:	10 A / 250 V
Typical response time:	50ms
Repeatability of tripping:	+/- 0.3%

**WIRING AND OUTLINE DIMENSIONS:**

Threshold value (resistance) function of number of PTC in series wired on DSL35L relay



Typical application for PTC motor protection



relay state LED indicators

