

# Fixed setting manual reset limiter, pipe mounting

| Enclosure | Type    | Operation  | Contact | Measurement | Ranges °C | Models                           |
|-----------|---------|------------|---------|-------------|-----------|----------------------------------|
| IP65,IK10 | Control | Mechanical | SPNC    | Pipe        |           | <b>Y118L<br/>&amp;<br/>Y108L</b> |
| Material  |         |            |         |             |           |                                  |
| Aluminum  |         |            |         |             |           |                                  |



## Applications

These **liquid expansion** pipe surface manual reset limiters can be installed inside pockets as immersion thermostats in pipelines and containers, and as **high limit safety** in air ducts, in usual industrial applications and environments. (Not suitable for hazardous areas).

-Internal adjustment is convenient for products that must not be frequently adjusted.

-Insensitivity to strong vibrations

-Sealed calibration point, not adjustable

**Housing:** Aluminum, IP65, IK10. Grey RAL7032 epoxy painting. Stainless steel captive cover screws. Captive aluminum lid.

**Action:** fail safe manual reset high temperature limit.

**Set point calibration value:** 80±8°C (176±15°F), 90±8°C (194±15°F), 110±8°C (230±15°F). Other calibration temperature on request, between 30°C and 110°C (85°F and 230°F).

**Temperature adjustment:** fixed setting, sealed, no access to user.

**Sensing element:** Liquid expansion bulb inside aluminum bracket in contact with the pipe surface.

The bracket design provides optimized thermal contact with 34 mm (1", DN25), 60 mm (2", DN50) and 90 mm (3", DN80) outside diameter tubes. For intermediate sizes, we recommend the use of thermal grease

**Electrical connections:** Inside, on screw terminal connection block

**Earthing:** Internal and external screw terminal. (Possibility to connect 2 wires 1.5mm<sup>2</sup> on each terminal)

**Pilot light:** Allow to visualize thermostat contact output position. Standard for all models with transparent window. Non Standard and on special request only for models with plain aluminum cover

**Cable input and output:** Two M20 cable glands, Black PA66.

**Mounting:** The thermostat housing can be fixed on the pipe by worm drive hose clamps (DIN3017), nylon cable ties (Tie wraps upon EN50146, for applications at permanent temperature lower than 85°C), or specific stainless steel punched band (see accessories at the end of this catalog)

**Identification:** Metallic identification label, riveted. Set point calibration is printed in °C and °F beside the manual reset button.

Contact: Single pole, open on rise (SPNC)

**Electrical rating:** 16A res. 250/400VAC

-Electrical life > 6.000 cycles.

**Minimum storage temperature:** -35°C (-30°F)

**Maximum ambient temperature:** 60°C (140°F)

For more technical information see 8L limiter technical data sheet

## Main references

| Calibration temperature °C (°F) | References with external adjustment | References with internal adjustment | Minimum resettable temperature °C (°F) | Max temperature on pipe °C (°F) |
|---------------------------------|-------------------------------------|-------------------------------------|--|---------------------------------|
| 80±8°C (176±15°F)               | Y118L080105AA80D                    | Y108L080105A80D                     | 52°C (126°F)                           | 105°C (221°F)                   |
| 90±8°C (194±15°F)               | Y118L090115AA80D                    | Y108L090115A80D                     | 60°C (140°F)                           | 115°C (239°F)                   |
| 110±8°C (230±15°F)              | Y118L110135AA80D                    | Y108L110135A80D                     | 75°C (167°F)                           | 135°C (275°F)                   |