

Fixed setting manual reset bulb and capillary limiter

Enclosure	Type	Operation	Contact	Measurement	Ranges °C	Models
IP65 IK10	Manual reset	Mechanical	SPNC	Bulb and Capillary		Y1I8L Y1G8L
Material						
Aluminum						

Y1I8L: External manual reset (With pilot light)		Y1G8L: Internal manual reset (Without pilot light)	

Applications:

- Remote control in usual industrial applications and environments, not hazardous areas, for use as **high limit safety**.
- **Sealed temperature set point**
- Internal reset is convenient for products that must not be frequently reset.

Housing: Aluminum, IP65, IK10. Mounted on a SUS304 stainless steel wall mounting plate which keeps the temperature sensing element away from the wall. 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), 130±8°C (266±15°F), 150±8°C (302±15°F), 175±8°C (347±15°F), 220±11°C (428±20°F), 270±13°C (518±23°F), 300±15°C (572±27°F). Other calibration temperature on request, between 30°C and 320°C (85°F and 610°F)

Temperature adjustment: Fixed setting, sealed, no access to user.

Sensing element: Liquid expansion bulb and capillary. The capillary is protected by a stainless steel corrugated pipe terminated by a silicone tip. A plastic cap plug provided as standard accessory allows locking the flexible metal conduit inside a pocket. (See pockets in the accessories section)

Electrical connections: Inside, on screw terminal connection block. Possibility to connect two wires 1.5mm² on each terminal.

Pilot light: Allows to visualize limiter contact output position. Standard for all models with transparent window. Non-standard and on special request only for models with plain aluminum cover. (230V, 2 phase power supply, is mandatory for the pilot light)

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

Earthing: Internal and external screw terminal.

Cable output: M16 cable gland, PA66, for cables up to 10mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5mm, 94 × 92mm distance.

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

Contact: Single pole, open on temperature 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 ask 8L limiter technical data sheet (catalog 1)

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice



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Main references

Calibration temperature °C (°F)	References with external adjustment	References with internal adjustment	Minimum resettable temperature °C (°F)	Capillary length (C, mm)	Bulb diameter (D, mm)	Bulb length (L, mm)	Max temperature on bulb °C (°F)
80±8°C (176±15°F)	Y1I8L0080105AO6D	Y1G8L0080105AO6D	52°C (126°F)	1500	6	77	105°C (221°F)
90±8°C (194±15°F)	Y1I8L0090115AO6D	Y1G8L0090115AO6D	60°C (140°F)	1500	6	77	115°C (239°F)
110±8°C (230±15°F)	Y1I8L0110135AO6D	Y1G8L0110135AO6D	75°C (167°F)	1500	6	77	135°C (275°F)
130±8°C (266±15°F)	Y1I8L0130155AO6D	Y1G8L0130155AO6D	80°C (176°F)	1500	6	74	155°C (311°F)
150±8°C (302±15°F)	Y1I8L0150175AO6D	Y1G8L0150175AO6D	95°C (203°F)	1500	6	74	175°C (347°F)
175±8°C (347±15°F)	Y1I8L0175200AO4D	Y1G8L0175200AO4D	115°C (239°F)	1500	4	95	200°C (392°F)
220±11°C (428±20°F)	Y1I8L0220245AO4D	Y1G8L0220245AO4D	140°C (284°F)	1500	4	90	245°C (473°F)
270±13°C (518±23°F)	Y1I8L0270295AO4D	Y1G8L0270295AO4D	160°C (320°F)	1500	4	85	295°C (563°F)
300±15°C (572±27°F)	Y1I8L0300325AO4D	Y1G8L0300325AO4D	160°C (320°F)	1500	4	82	325°C (617°F)

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