ML-2140.IS MAXLOGIC CONVENTIONAL SYSTEM MULTISENSOR (PHOTOELECTRIC SMOKE + HEAT) DETECTOR, INTRINSICALLY SAFE

It has been designed according to **EN IEC 60079-0:2018**, **EN 60079-11:2012 and EN ISO/IEC 80079-34:2020** standards as **intrinsically safe (I.S) for use in hazardous environments**. It also meets the requirements of the **EN 54-5 and EN 54-7** standard.

ML-2140.IS intrinsically multi-sensor detector has an infrared photoelectric smoke detection chamber utilizing the infrared light scatter sensing principle and a temperature-sensitive **thermistor**. If the ambient temperature reached **60°C** or there **is a temperature increase specified in EN54-5 standard** and/or if there is smoke in the optical chamber, the fire is detected and fire alarm signal is generated.There are **two red LEDs** on the products that provide 360° viewing angle. These LEDs light up continuously in case of **Alarm**, flash once in 8 seconds in **Normal Operation** and 2 times in 8 seconds in case of **Fault** (**pollution or measurement fault**..etc.).
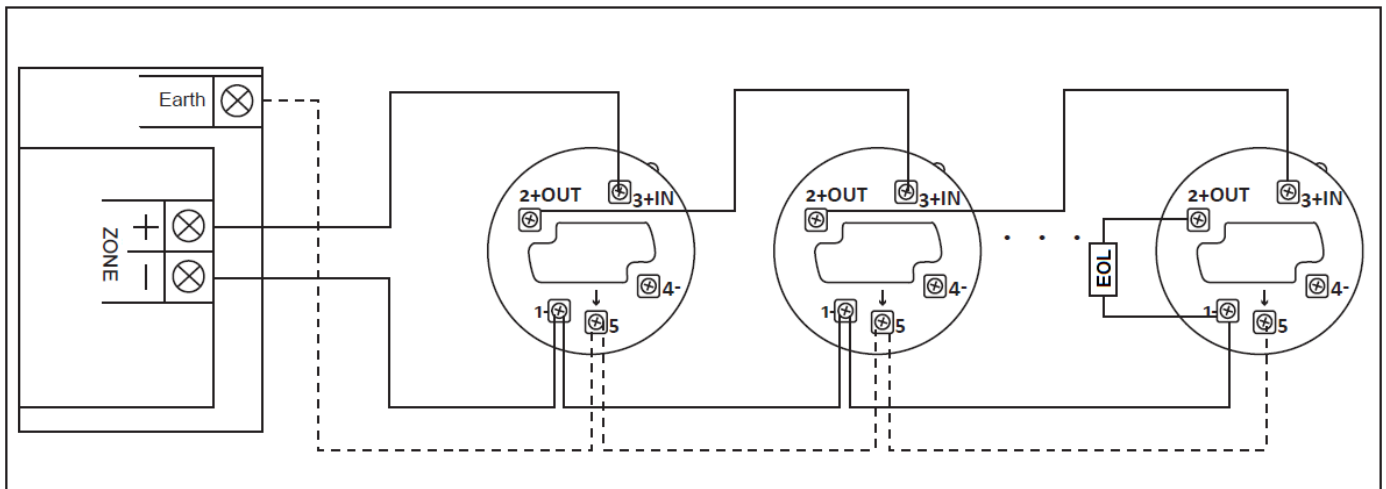
GENERAL FEATURES

• Complies with ATEX directive **EN IEC 60079-0:2018**, **EN 60079-11:2012 and EN ISO/IEC 80079-34:2020** standards.

• It is designed according to the classification of **ATEX Ex II 1G EX ia IIC T5 Ga -10°C≤Ta≤55°C**.

• It can be used in **Category 1, 2 or 3 hazardous atmosphere environments** with temperatures up to **55°C**.

• Complies with Construction Product Regulation **EN 54-5** and **EN 54-7** standard.

• It has **2 red LEDs**. These LEDs allows us to monitor different situations by flashing continuously in case of **Alarm**, once in 8s in **Normal Operation**, and twice in 8s in case of **Fault** (pollution or measurement fault..etc).

TECHNICAL FEATURES

Supply Voltage	14 - 28.5V DC
Detection Source	Optical Chamber + Dual thermistor
Quiescent / Alarm Current (max.)	220µA / 95mA
Remote Indicator Output (max.)	35mA
Heat Class	A1R

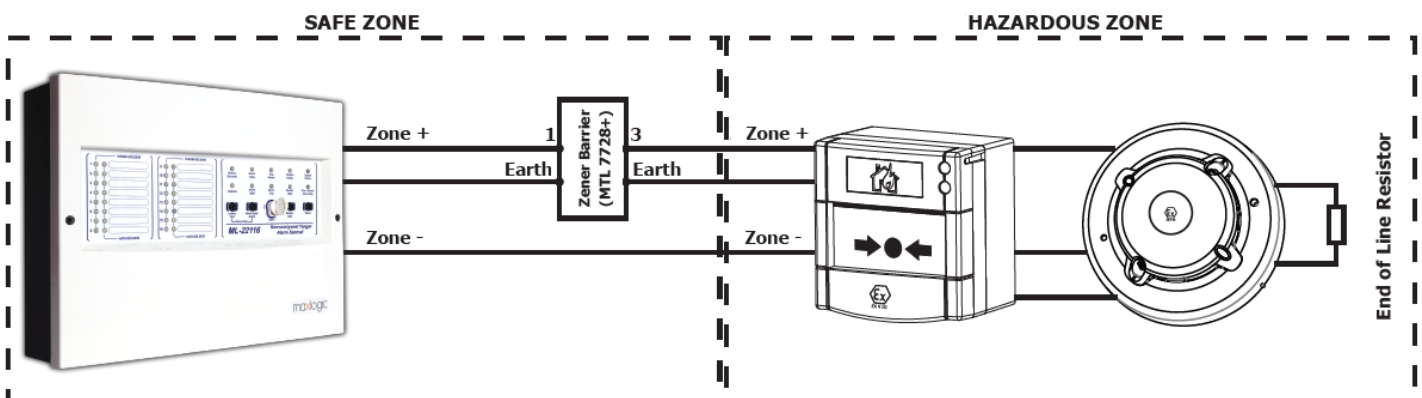| Alarm Indicator	2 Red LED
Operating Temp	(-10°C) - (+55°C)
Storage Temp	(-30°C) - (+60°C)
Relative Humidity	%0 – 95 Rh (@40°C non-condensing)
IP Protection Class	IP20
Dimensions	Ø:106mm, h:51mm
Weight	141gr
Compatible Base	ML-0140.IS
Cable	1x2x0,8+0,8JH(st)H
	1x2x1,0+1,0JH(st)H
	1x2x1,5+1,5JH(st)H

CONNECTION SCHEME

EOL: End Of Line Resistor

CONNECTION TO HAZARDOUS ZONE WITH ZENER BARRIER

- CONNECTION WITH MTL 7728+

Max. 20 pieces detector or max. 32 pieces manual call point, total product quantity can not exceed 32.

Important Note:

* The earth connection of the system must be made.

** The Earth Connection of Safe Zone or Hazardous Zone must be provided with "Zener Barrier".

MAXIMUM CABLE LENGTH

Cable (µF/km)	Group IIC	Group IIB	Group IIA
1x2x0,8+0,8JE-H(st)H (<100nF/km)	0,083µF/(100nF/km)= 800m	1 km (0,8mm cable for maximum length)	1 km (0,8mm cable for maximum length)
1x2x0,8+0,8J-H(st)H (<100nF/km)	0,083µF/(100nF/km)= 800m	1 km (0,8mm cable for maximum length)	1 km (0,8mm cable for maximum length)