



TYPE APPROVAL CERTIFICATE

N. **ELE070321CS002**

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA Type Approval system

Description	Fixed fire detection and fire alarm systems: Heat detectors including Short circuit isolator
Type	MD9907-A1; MD9907-B; MD9907-C; MD9908 heat detectors
Applicant	MICRODATA DUE S.r.l Via Greti del Vara 9 19020 Follo (SP) ITALY MICRODATA DUE S.r.l Via Greti del Vara 9 19020 Follo (SP) ITALY
Testing Standards	EN 54-5: (2017) incl. A1 (2018); EN 54-17: (2005) incl. AC (2007); IEC 60092-504: 2016; IEC 60533:2015; IACS UR E10 Type Tests
Reference standards	SOLAS 74 Reg. II-2 /7; Solas 74 Reg. X/3; IMO Res. MSC.36(63)- (1994 HSC Code) 7; IMO Res. MSC.97(73)- (2000 HSC Code) 7; IMO Res. MSC.98(73)- (FSS Code) 9; IMO MSC.1/Circ.1242;
Issued at Genoa on June 21, 2021	This Certificate is valid until June 21, 2026

This Certificate consists of 3 pages

RINA Services S.p.A.

Luigi Benedetti





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Products description:

MD9907 Automatic , Addressable , Analogue heat detector:

Main features :

- Provide fire alarm for high temperature
- Monitoring of the temperature inside the room where it is installed
- Send to the Central Unit the temperature analogue values
- Include short circuit isolator functionality

MD9907-A1 IP 67 Heat Detector **A1 Class**; Alarm threshold: **54°C to 65°C**
MD9907-B IP 67 Heat Detector **B Class**; Alarm threshold: **69°C to 85°C**
MD9907-C IP 67 Heat Detector **C Class**; Alarm threshold: **84°C to 100°C**

The MD 9907 case is available with different mounting of cable glands, so as to facilitate mounting operation in various situation.

The detector continuously monitors the thermistor component and is able to provide a fault signalization in case of sensor failure.

The communication through the Loop with Central Unit is performed by control cards, which provide to the detectors the 24Vdc power supply on which a serial transmission signal using MD2 protocol is modulated.

If an alarm is detected an optical signalization (red LED) on the detector housing flashes.

Microdata Due specifications:

Technical Specification: ST36604 rev. B
Datasheet: D35546 rev. B
Software description: SDD36634 rev. 0
Risk Assessment: D36690 rev. 0

Test Reports:

BRE GLOBAL Ltd Test Report n. TE-P103830-1001 rev. 02

(Technical evaluation of the Microdata Due S.r.l. MD-9908 and MD-9907 Analogue Addressable Heat Detectors with Short Circuit Isolator to EN 54-5: (2017) incl. A1 (2018) and EN 54-17:2005 incl. AC (2007)

TesLab n°. 166117F - a (05/09/2016); n. 166117F - b (05/09/2016); n. 166117F - c (05/09/2016)
(RINA Rules – Pt C, Ch 3, Sec 6)

TesLab n. 17B302E-b (EMC _ EN60092-504: 2016)

TesLab/ Microdata Due: n. 0974-17 (28/11/2017) Functional test as procedure IS37789 Rev.0 (IEC 60092-04:2016)

MD9908 Automatic, Addressable, Analogue heat detector :

Main features:

MD 9908 detector consists of two parts:

- **The sensor**, (IP67) to be installed in the room to be monitored
- **The Loop Interface Box** , (IP 66) also includes short circuit isolator and LED Fire signaling (to be mounted outside of the monitored space)
Sensors and Interface box are connected each other with a 30 meters maximum length cable
- Fire alarm for high temperature
- Monitoring of the temperature inside the room where it is installed
- Send to the Central Unit the temperature analogue values
- Short circuit isolator functionality





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MD9908 IP66 Loop interface and IP 67 Heat detector **F Class**; Alarm threshold: **129°C to +145°C**

The detector continuously monitors the thermistor component and is able to provide a fault signalization in case of sensor failure. The communication through the loop with Central Unit is performed by control cards, which provide to the detectors the 24Vdc power supply on which a serial transmission signal using MD2 protocol is modulated. If an alarm is detected an optical signalization (red LED) on the Interface Box housing flashes.

Microdata Due specifications:

Technical Specification:	ST36605 rev. B
Datasheet:	D35545 rev. B
Software description:	SDD36634 rev. 0
Risk Assessment:	D36691 rev. 0

Test Reports :

BRE GLOBAL Ltd Test Report: n. TE-P103830-1001 rev. 02
(Technical evaluation of the Microdata Due S.r.l. MD-9908 and MD-9907 Analogue Addressable Heat Detectors with Short Circuit isolator to EN 54-5: (2017) incl. A1 (2018) and EN 54-17:2005 incl. AC (2007)

TesLab Test Reports: n. 166117E-d (05/09/2016); (RINA Rules – Pt C, Ch 3, Sec 6)
n. 17B302E-b (EMC _ EN60092-504: 2016)

TesLab/ Microdata Due: n. 0974-17 (28/11/2017) Functional test

