Aero-X Icon®

compact, versatile fire detection & extinguishing control panel

Introduction

The Aero-X Icon® is a very compact and robust, stand-alone fire detection & extinguishing control panel designed to protect various applications in numerous areas of tunnelling & mining, marine & offshore, rolling stock & rail infrastructure, automotive & transport, power generation & distribution as well as process & manufacturing industry. Typical application areas are protection of electrical cabinets, CNC machines, engine rooms, and many more in which safety of personnel and equipment is of utmost importance.

The Aero-X Icon® fire detection & extinguishing control panel has been designed to be focussed on easy installation & commissioning "plug & play", simple handling as well as operation under very harsh & heavy duty environmental conditions.

The Aero-X Icon® control panel is designed meeting the requirements of the European standard EN 54-2 "Fire Detection and Fire Alarm systems - Control and Indicating Equipment", the EN 12094-1 for fixed firefighting systems Part 1: "Requirements and test methods for electrical automatic control" and the EN 15276-2 for aerosol fire extinguishing systems. The Aero-X Icon® is a versatile fire alarm & extinguishing control system with a high-performance level intended for small and medium size firefighting systems.

Picture: Aero-X Icon® fire detection & extinguishing control panel

Key features

- the Aero-X Icon® can be operated fully manual as well as, in combination with a single- or double knock fire detection, automatic alarm and extinguishing function

- two individual, fully monitored fire alarm input zones for the connection of conventional smoke and heat sensors, linear heat detection cable (LHD) as well as type E heat detectors

- two individual, fully monitored input groups for the connection of external manual extinguishing release and hold buttons

- one fully monitored output for the connection of aerosol fire extinguishing generators or solenoid valves

- one output for the connection of visual & acoustic alarm devices

- volt free contacts for "fire alarm", "fault" and a programmable (single- or double knock) contact to switch off e.g. the ventilation

- two extinguishing release buttons to be pressed simultaneously to prevent for unwanted releases

- an extinguishing hold button to postpone releases (puts delay timer back to the start)

- mode button to easily switch between manual only and automatic & manual mode

- special vehicle mode

- settable extinguishing delay time (0 - 35 sec.) to prevent unwanted releases including option to override the extinguishing delay time at manual release

- watchdog timer for additional safety

- historic event log memory readable from a mini USB port

- the Aero-X Icon® works on an input voltage of 6 to 28 Volt DC

- a robust, waterproof IP65 (EN 60529) ABS enclosure

- EN 45545 and UL certified cable glands

Technical specification

• Dimension (l x w x h)	120 x 80 x 58mm
• Enclosure material	ABS
• Color	black RAL 9005
• Enclosure rating	IP 65
• Max. amount of cable glands	2 x M16; 1 x M20
• Application	indoor & outdoor
• Rated voltage	8 to 28 VDC
• Maximum power use	5 W
• Max. diameter conductors	>0.4 & < 1.0 mm
• Extinguish release current	1.3 A
• Extinguish pulse duration	50 - 55 ms
• Extinguish delay timer	dip switch, 0 - 35 sec
• Normal state	>8 & <12 kΩ
• Fire Zone alarm threshold	>0.1 & <1,2 kΩ
• Fire Zone fault threshold 1	<0.1 kΩ
• Fire Zone fault threshold 2	>1,2 & <8 kΩ
• Fire Zone fault threshold 3	<12 kΩ
• Alarm resistant	0.47 - 0.68 kΩ
• End of line resistant	10 kΩ
• EOL ext. release input	10 kOhm
• EOL ext. hold input	10 kOhm
• Sounder/beacon max. current	50 mA
• Sounder/beacon voltage	20 - 22 VDC
• Max. load Fire VFC relay	1A @ 30 Volt DC
• Max. load Fault VFC relay	1A @ 30 Volt DC
• Max. load prog. VFC relay	1A @ 30 Volt DC
• Event log	10000 events
• Event log port	mini USB

Application markets

- Electrical equipment
- Rolling stock
- Rail infrastructure
- Marine & Offshore
- Tunnelling & Mining
- Renewable Energy
- Energy Storage
- Power Generation
- Transportation
- Industry

CE & FCC EMC compliance tested

- EN 50130
- EN 61000
- EN 55016
- EN 55022
- 47 CFR 15
- ANSI 63.4
- ICES-003

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