



FIRE SUPPRESSION UNITS

SOLO ULTRA EXTINGUISHING PANEL

PRODUCT CODE
NF-SOLO-ULTX



NF-SOLO-ULTX
SOLO ULTRA
EXTINGUISHING CONTROL PANEL

DESCRIPTION

The **Solo Ultra** is a combination extinguishing control panel. It combines detection zones with suppression control in a compact package.

The design and configurable options allow for flexibility and versatility over a wide range of applications.

Tamper evident tag technology and strict electronic design rules have proven highly effective. To eliminate the inherent hazards of microprocessor control, the Solo Ultra uses a fully parallel path programmable logic device, which is coded using a language called VHDL, commissioned by US DOD and used for high reliability and safety critical applications.

FEATURES

- For use on Land and Marine transportation, Plant and Mobile risks.
- Dual Linear heat or point detection loops with full fault monitoring.
- Can be programmed for:
 - Manual only
 - Single stage detection, alarm and release
 - Full Two stage detection, alarm and release
- Automatic Engine/fuel/fan shutoff capability via volt free contacts.
- Variable time delay for actuation.
- Suppression activation button with anti-tamper tag.
- Universal 12 or 30 V DC electrical power.
- Low input power consumption in "PARKED/MOORED" mode.
- Full fault monitoring on all detector and extinguisher circuits.
- Supports up to 6 Stat-X fire extinguishers.
- The unit is reverse polarity, transient and EMC protected.
- An internal alarm sounder and relay drive additional external audible alarm units up to 2 Amps. Uncommitted relay change-over contacts for interface with fuel shutoff, engine/fan shutdown etc.



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TECHNICAL SPECIFICATIONS

Power Supply	Operating Voltage	11 to 32 V DC
	Quiescent Current Ign Off	8.5 mA Typ (excluding external load currents)
	Ign On	16 mA Typ (excluding external load currents)
	Max Alarm Current Draw	100 mA (excluding external load currents)
	Max current draw	3 A (including extinguisher operate current)
Suppressor Activation	Parked current draw	8.5 mA Typ
	Discharge Current	1 A to 4 A depending on voltage and number of suppressors (Stat-X = 1.8 Ω nominal each unit). Up to 2 units on 12 V, 4 units max on 24 V Connect in series with bidirectional catch diodes across each element (see manual).
	Current/Time Limit	Output is Vin via switch with 6 Ω in series. Constant I ² T limit = 9 Amp 2*Seconds
	Monitoring current	<4 mA, Fault if loop R>300, 12 V max o/c voltage
Aux In (Override key)	Monitoring current	1.2 mA Nominal
	Sense Logic	Norm S/C, >1K active typ.
Sensor Loop Inputs 1+2	Max Output voltage	12 V DC regulated, filtered and transient protected
	Output current limit	25 mA per loop
	Alarm condition threshold	<700 Ω Nominal
	Fault condition threshold	Approximately 20 k Ω
	End Of Line Resistor	10 k Ω
Alarm Output	Fault monitoring	Open circuit or ground fault = fault indication
	Relay Contacts	2 A @ Vin DC (Vin thru NO relay circuit)
	VFC Output	Relay Contacts (volt free)
Mechanical	Relay Contacts (volt free)	2 A @ 24 V DC (relay changeover circuit)
	Dimensions (H x W x D) mm	82 x 83 x 25
	Mounting	75 mm diameter round hole, retained by four #6*25 self tapping screws
Mechanical	Connections	Via 3 * 6 way terminal block accepting <1 mm ² wires with ferrules

ORDERING INFORMATION

Product Code	Product Description
NF-SOLO-ULTX	Solo Ultra Extinguishing Control Panel
NF-SOLO-SOVX	Solo Sovereign Extinguishing Control Panel

Please refer to the current Technoswitch Price List for the complete Stat-X Aerosol Unit and Peripheral range.

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