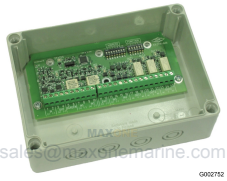
CN-AIOI Address & Control Unit

Product reference	
Part No.	023261
Manufacturer	Consilium / Salwico
Model	CN-AIOI



Product overview

Loop address/control unit for conventional detectors, external fire systems, sprinklers, doors, dampers and fans.

Technical specifications

Manufacturer Article Number	023261	External fire interface	IN1 fire closing contact; IN2 pre-alarm closed contact / external fault open circuit. OUT1 reset pulse about 3 s; OUT2/3 programmable.
Compatible control systems	NSAC-1; TERRA FIRE; TERRA ONE.	Terra One limitation	Pre-alarm is unavailable in the Terra One single-loop panel.
Loop voltage	34 VDC nominal; 20–38 VDC working.	Sprinkler interface	Flow alarm delayed about 15 s to reject pressure shocks; IN2 section valve supervised for fully open position.
Loop current	0.3 mA working; 10 mA alarm.	I/O mode	DIP 6 OFF. 2 digital inputs; 2 external cable supervisions; 3 relay outputs; external 24 V supervision.
External power	24 VDC ±20%; 50 mA input (about 15 mA per relay). Separate supply required when relays are used.	I/O external supply / suppression	External 24 V is needed for relay activation and IN3/4 supervision. Fit a switch-off diode to external relays/contactors to prevent voltage spikes.
Detector / switch supply	IN1/IN2: 12–15 V DC supplied from the loop.	Safe / Unsafe inputs	Safe: IN1 confirms safe position; Unsafe: IN2 confirms unsafe position.
Inputs / relay outputs	2 inputs; 3 programmable relay outputs. Two relay outputs can supervise an external control cable.	Failsafe / Watchdog	Failsafe opens relays on power loss. Watchdog requires RKS06 and holds relay position for a period after loop power loss.
Relay contact load	Maximum 24–48 VDC / 1.0 A.	Auto function	Opens relays for fire, fault, or disabled-then-fire devices within ±3 addresses.
Address / function switches	8-way address DIP; 6-way function DIP.	Mode 11 special action	The starred exception automatically CLOSES relays if any disabled device on the same loop enters fire alarm.
Enclosure / environment	IP65; PC/ABS; −10 to +55 °C; 0–95% RH.	I/O mode matrix: 0–5	0 General I/O; 1 bell control (RKS05 only); 2 Safe; 3 Safe+Failsafe; 4 Failsafe+Auto; 5 Safe+Failsafe+Auto.
Weight	500 g ±5%.	I/O mode matrix: 6–9	6 Safe+Failsafe+Watchdog+Auto; 7 Failsafe+Watchdog+Auto; 8 Safe+Unsafe; 9 Safe+Unsafe+Failsafe.
Printed standards / safety scope	EN54-17:2005/AC:2007; EN54-18:2005/AC:2007; IACS E10. Printed 2531-CPR-232.1707 / DoP CN-1707; current validity unknown.	I/O mode matrix: 10–16	10 Failsafe+Watchdog; 11 Failsafe+Watchdog+Auto*; 12 Failsafe; 16 Local timer. Modes 6,7,10,11 require RKS06.
Fire mode / device selection	DIP 6 ON. DIP 1–3: 0 Detector, 1 Smoke, 2 Heat, 3 Manual call point, 4 IS, 5 Fire, 6 Sprinkler, 7 Flame. Normally use NS-AIN1 for intrinsically safe devices.	DSCI wiring recommendation	Interconnect/crossconnect the positive leads to one terminal using a jumper or similar.
Fire-mode power supervision	External 24 V supply is NOT supervised in fire mode.	Original installation drawings	All 8 original pages retained: terminal numbers, enclosure/mounting dimensions, DIP diagrams and connection examples. Refer to original PDF before installation.
Conventional detector interface	Remote LED indication. If the detector lacks internal Ri, add about 330 Ω in series to distinguish fire from short-circuit fault.		