



Omni8P 8 point Alarm Annunciator

Model C1427/8/9 8 Point Annunciator with built in Operator Controls.

DATASHEET

Features

- 24Vdc Powered (48Vdc or 85-264Vac/dc option)
- Compact, panel mounted and easy to use
- 8 Potential Free Contact Inputs
- Normally Open/Closed Selectable via DIP switch
- 27 Standard Sequences
- Choice of Lamp/Sidebar LED/Backlit LED Display
- Integral pushbuttons and Audible Warning
- Expandable to 248 points
- Optional internal repeat relay outputs
- Fully "DIP" Switch Configurable
- Optional Serial Port - Modbus/PLC compatible



The Omni8P annunciators replace the Omni8B annunciator with a range of products offering the option of incandescent lamps, backlit LED or Sidebar LED indicator windows. The Omni8P is a panel mounted 8 point alarm annunciator with integrated Test, Silence, Acknowledge and Reset Pushbuttons, and internal audible warning.

Combine this alarm annunciator with Omni16C 16 point units to create alarm systems from 24 up to 248 points.

The 8 potential free contact inputs and are individually DIP switch configurable for Normally Open or Normally Closed operation. Optional Inputs boards for common negative (PLC's compatible) or fully isolated 19-60Vdc

or 90-150 Vac/dc are also available. The alarm sequence for the 8 alarm points is configured by DIP switch with a choice of 27 standard sequences. Four relay contact outputs provide group alarm, horn and watchdog outputs. The group alarm can be set to one of four functions: follows input, follows alarm, Multiple-reflash or Ring-back horn.

Input repeat contacts and Modbus serial port are useful options. Omniflex has completely re-designed the Omni8P with new features while still keeping physical compatibility with the original popular Omni8B annunciator.

SPECIFICATIONS

Power Supply Options

** To be ordered as an option. See accessories list for Model Numbers Fitted prior to shipment

Voltage Option	24Vdc (STD)	20-60Vdc**	85-264Vac**
Isolation PSU to inputs	None	1500Vrms	1500Vrms
Max dc Ripple	10% pk. to pk.	10% pk. to pk.	N/A
Consumption			
C1427	0.6 Amp max	1-0.8 Amps	0.6-0.3A
C1428	0.6 Amp max	1-0.8 Amps	0.6-0.3A
C1429	1.1 Amps max	1.3 -0.9Amps	1.1-0.5A

Alarm Inputs - Potential Free Contact

Input Board Option	C142X-0**	C142X-1
	** Standard	
Input Type	Common positive	Common negative
Quantity and Type	8 Potential Free Contacts	
Max. Open cct Voltage	28Vdc	
Max. Closed cct Current	5mA per input circuit	
Max. Loop Resistance to detect closed contact	200 ohms	
Min. Loop Resistance to detect open contact	100 kΩ	

Alarm Inputs - Individually Isolated

Input Board Option	C142X-2	C142X-3
Input Voltage range	19 to 60Vdc	90-150Vdc/ac rms
Isolation Input to Logic	1500V ac rms	1500V ac rms
Isolation Input to Input	500V ac rms	500V ac rms
Quantity and Type	8 dc inputs	8 dc or ac inputs

Inputs General

Input Scan Rate	4 milliseconds
Wire size	1.5mm ² (17SWG/15.5SWG) max.
Connections	Via plug-in Terminals

Integral Pushbuttons and Audible Warning

Quantity	Four buttons mounted on front facia
Pushbutton Functions	Silence; Acknowledge; Reset & Test
Audible Warning	Integral audible warning >80dBm

Alarm Window Display

Quantity	8 Alarm windows		
Model	C1427	C1428	C1429
Type	Backlit LED	Side bar LED	Incandescent Lamp
Window Size	24mmx64mm	21mmx51mm	24mmx64mm



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Legend Area	21mmx60mm	20mmx40mm	21mmx60mm
Legend Type	User printed on film with laser/inkjet using software provided.	Engraved plastic window	User printed on film with laser/inkjet using software provided.

Relay Contact Outputs

Contact Type	2 Potential free changeover (Form C) 2 Potential free normally Open (Form A)
Contact Rating	2A 30Vdc or 0.5A 230Vac
Isolation	1000Vac from contact to other circuits

Temperature Range

Operating Temperature	0 °C – 60 °C (+32 °F – 140 °F) Humidity up to 90% RH, non condensing is recommended
Storage Temperature	-10 °C – 70 °C (+14 °F – 158 °F) Humidity less than 40% RH recommended

Weight

Unpacked	1.8kg approx.
Packed	2.2kg approx.

Compliance to Standards

Ingress Protection (I.P.)	IP42 (front only)
Safety	IEC 61508; EN 60950:1995
Emissions	EN55011 & EN50081-2:1994 Grp I Class A
Immunity – ESD	IEC 61000-4-2:1995, level 3

ORDERING INFORMATION

ORDER CODE	DESCRIPTION
C1427-x	LED Backlit Alarm Annunciator; 24Vdc (Order LED boards separately)
C1428-x	Sidebar LED Annunciator; 24Vdc
C1429-x	Incandescent Lamp Annunciator; 24Vdc
x=	0 (default) 1 2 3
	+ve Com -ve Com 19-60Vdc iso 90-150Vac/dc iso

Accessories

To be ordered separately; will be fitted before delivery.

PSU Option – fitted into the Omni8P Housing.	
C1421	85-264Vac/dc Isolated Power Supply
C1422	30-60Vdc Isolated Power Supply
Serial Communications Option (Modbus)	
C1423	Isolated RS232/485 Serial Port
Repeat Outputs	
C1425	8 way Input Repeat Relay Board
C1426	8 way Ribbon-Header Repeat Output Board (Input and Lamp Repeats)
C1169	8 Way Repeat Lamp Driver Terminals
Window and Lamp Board Options	
Backlit LED	
C1150	Red Backlit LED Lamp Board
C1151	Yellow Backlit LED Lamp Board
C1152	Green Backlit LED Lamp Board
C1153	Blue Backlit LED Lamp Board
C1154	Orange Backlit LED Lamp Board
C1155	White Backlit LED Lamp Board
Incandescent	
C1160	Lamp and Holder 8 Window Pack

Immunity – RF Fields	IEC 61000-4-3:1995, level 3
Immunity – Fast Transients	IEC 61000-4-4:1995 2 kV – DC power port 1 kV – input/output lines
Supply Variations	IEC 61000-4-7:1991, 24 V dc +15% -10%
Vibration	IEC60068-2-6: 1995 10-150Hz. 1g

Sequence Options

Seq. No.	Sequence Description
1	LAMP FOLLOWS INPUT
2	MOMENTARY (FLEETING) ALARM, MANUAL RESET
3	ALARM ONLY (NON-LATCHING INPUTS) AUTO RESET
4	MOMENTARY ALARM, MANUAL RESET WITH ALARM RINGBACK
5	FIRST OUT, MULTIPLE GROUPS, MANUAL RESET
6	FIRST OUT, MANUAL RESET, AUTO RESET ON SUBSEQUENT ALARMS
7	FIRST OUT, SINGLE GROUP, MANUAL RESET, FIRST OUT CONTINUOUS FLASH
8	FIRST OUT, MANUAL RESET, SUBSEQUENT ALARMS WITHOUT HORN
9	MOMENTARY ALARM, MANUAL RESET, AUTO SILENCE AFTER TIME DELAY.
10	MOMENTARY ALARM, MANUAL RESET, REALARM AFTER TIME IF STILL ABNORMAL.
11	MOMENTARY ALARM, MANUAL RESET, CONSTANT FLASH (FOR MOTOR ALARMS).
12	MOMENTARY ALARM, AUTO RESET, TIME DELAY ON RETURN TO NORMAL.
13	PULSE MONITORING ALARM; MANUAL RESET
18	MOMENTARY ALARM, AUTO RESET
21	FIRST OUT, MULTIPLE GROUPS, AUTO RESET
23	FIRST OUT, SINGLE GROUP, AUTO RESET, FIRST OUT CONTINUOUS FLASH
24	FIRST OUT, AUTO RESET, SUBSEQUENT ALARMS WITHOUT HORN
25	MOMENTARY ALARM, AUTO RESET, AUTO SILENCE AFTER TIME DELAY.
26	MOMENTARY ALARM, AUTO RESET, REALARM AFTER TIME IF STILL ABNORMAL.
27	MOMENTARY ALARM, AUTO RESET, CONSTANT FLASH (FOR MOTOR ALARMS)
28	PULSE MONITORING ALARM, AUTO RESET
30	SERIAL PORT READ ONLY MODE
31	SERIAL PORT READ/WRITE MODE

C1161	Incand. Lamp replacement 10 pack
C1162	Incand. Lamp replacements 100 pack
C1463	Assorted Colour Filter Kit

Sidebar LED

C1448-1	Black engravable window
C1448-2	Red engravable window
C1448-3	Amber engravable window
C1448-4	Yellow engravable window
C1448-5	Green engravable window
C1448-6	Blue engravable window
C1448-7	White engravable window
C1446	Engraving for Sidebar LED Windows

Mounting Hardware

C1431-01	Mounting Kit 2 High Stack
C1431-02	Mounting Kit 3 High Stack
C1431-03	Mounting Kit 4 High Stack

Interface Accessories

C1168	OmniSet Programming cable for Prog Port
C1416	Ribbon Header to terminals converter
C6308	Ribbon to 16 Relays Form C 5A

Spares

To be ordered separately Will NOT be fitted before delivery.

Isolated Input Boards.

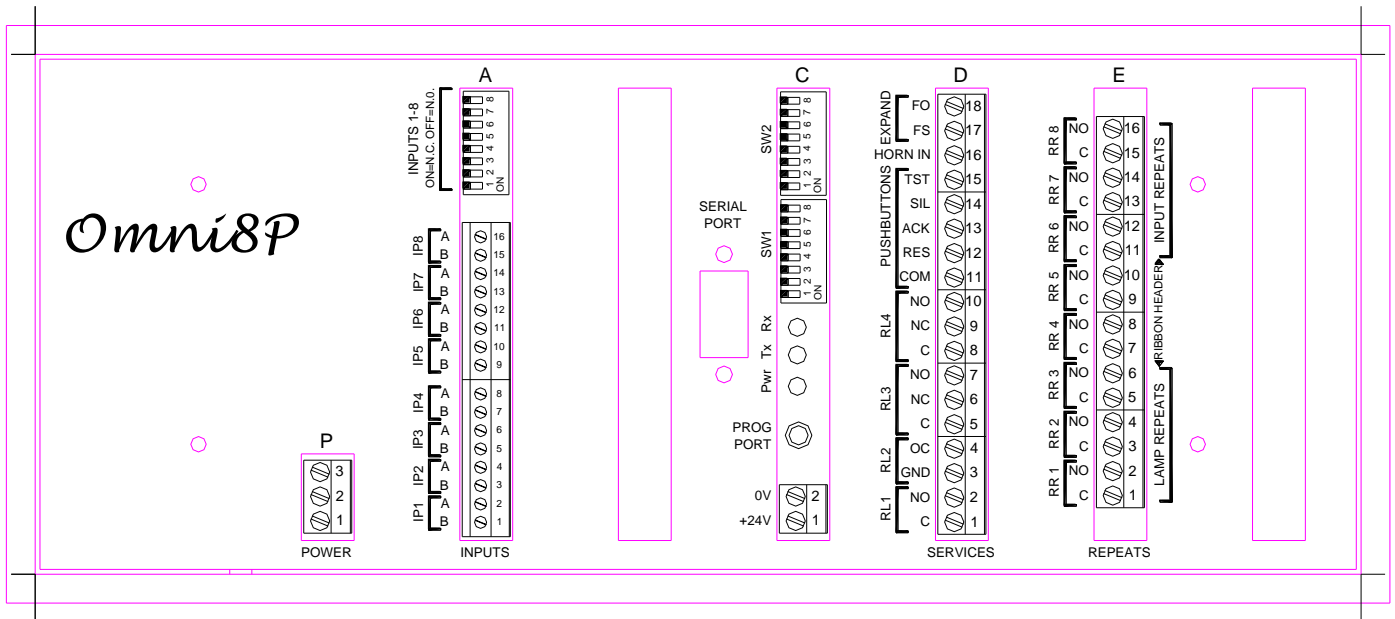
C1171	Omni8/16C Standard 8 Channel Common Positive
C1173	Omni8/16C Standard 8 Channel Common Negative
C1172	Omni 8/16C 8 Channel Isolated 19-60Vdc Inputs
C1170	Omni 8/16C 8 Channel Isolated 90-150Vac/dc Inputs



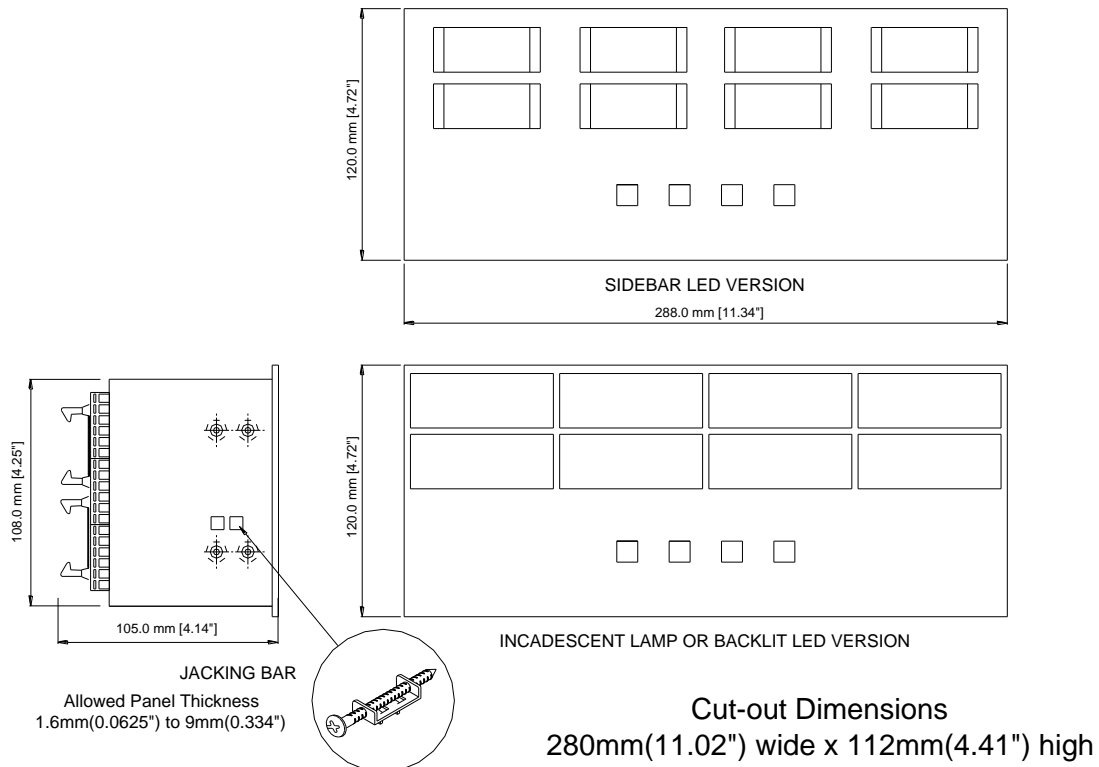
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ELECTRICAL CONNECTION



MECHANICAL CONFIGURATION





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ELECTRICAL CONNECTION DIAGRAM

