C4 SERIES | INPUT MODULES

DIGITAL I/O MODULES



Features

- Plug into mounting boards for C4 Series modules
- AC Inputs (Yellow Case)
- DC Inputs (White Case)
- 4kV Optical isolation
- Open-collector Output
- Industry standard packaging
- Built-in LED Status Indicator

SPECIFICATIONS [1]

Input

Part Number	C4IAC	C4IACA	C4IDC
Voltage Range	90-140 VAC	180-280 VAC	10-32 VDC
Maximum Current [mA] [2]	14	5	20
Resistance [Ohms] [3, 4]	22 k	75 k	2 k
Drop-out Current [mA] [5]	3	1	1.5
Allowable Voltage for No Output [VAC/VDC] [6]	50	50	3.0
Allowable Current for No Output [mA] [6]	2.5	0.7	1.0

Output

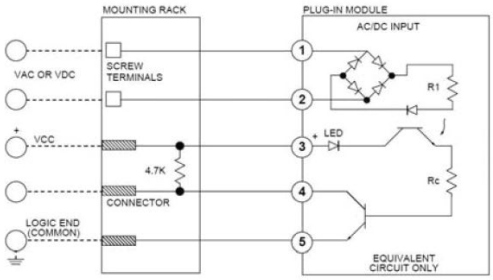
Part Number	C4IAC	C4IACA	C4IDC
Maximum Logic Supply Voltage[VDC]	30	30	30
Maximum Output Voltage Drop [VDC] [7]	0.2	0.2	0.2
Minimum Logic Supply Voltage [VDC]	4.5	4.5	4.5
Logic Supply Voltage Range [VDC]	4.5-30	4.5-30	4.5-30
Maximum Current [mA] [8]	50	50	50
Maximum Logic Supply Current [mA] [9]	25.0	25.0	25.0
Maximum Logic Supply Leakage Current [µA] [10]	10.0	10.0	10.0
Maximum Supply Idle Current [µA] [11]	10.0	10.0	10.0
Maximum Turn-On Time [msec] [12]	20	20	5.0
Maximum Turn-Off Time [msec] [12]	20	20	5.0

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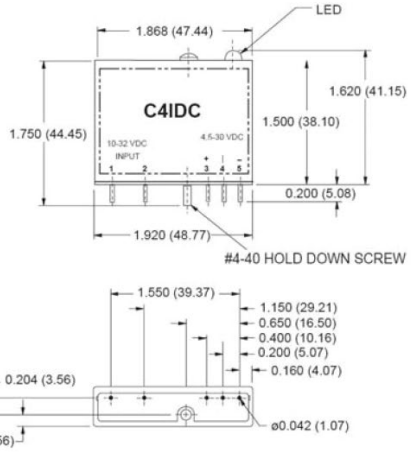
General Specifications

Description	Parameters
Input/Output Isolation Voltage [13]	4000 Vrms
Input/Output Capacitance	8 pF
Operating Temperature Range	-30°C to 80°C
Storage Temperature Range	-40°C to 100°C
Weight	1.1 oz. (31.2g)

EQUIVALENT CIRCUIT DIAGRAM / MECHANICAL SPECIFICATIONS



C4 SERIES I/O MODULES
AC/DC INPUT SCHEMATIC



GENERAL NOTES

(1) **Specifications apply to an ambient temperature of -30 to 80 °C unless otherwise noted.**
(2) **Measured at maximum specified input voltage, 25°C.**
(3) **Resistance values for C4IAC modules are effective impedance values at 25 °C.**
(4) **Resistance values are +/-10% at 25 °C.**
(5) **Defined as the maximum current allowed through the module's input to guarantee that the output will switch from "on" to "off". Higher currents may result in the output remaining in the "on" state.**
(6) **Defined as the maximum voltage/current allowed through the module's input that will not switch the module's output state from "off " to "on".**
(7) **At maximum output current and 25°C**
(8) **Maximum allowable sinking current through open collector output transistor**
(9) **At maximum logic supply voltage and 25°C.**
(10) **At maximum output voltage and 25°C.**
(11) **At maximum specified logic voltage and 25°C.**
(12) **At 15 VDC logic, 30 VDC output, 50 mA, 25°Cand nominal input voltage.**
(13) **At 25°C for 1 second maximum duration.**

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AGENCY APPROVALS & CERTIFICATIONS

E46203 38595

WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury.

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

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CONTACT US

Americas
+1 (877) 502 5500
sales.crydom@sensata.com
Europe, Middle East & Africa
+44 (1202) 416170
ssr-info.eu@sensata.com
Asia Pacific
sales.isasia@list.sensata.com
China +86 (21) 2306 1500
Japan +81 (45) 277 7117
Korea +82 (31) 601 2004
India +91 (80) 67920890
Rest of Asia +886 (2) 27602006 ext 2808