Electronics

7000 Series **Frequency Sensor**

CII 7000 series frequency

determine, cycle by cycle,

within a predetermined frequency pass band. Typical application is in monitoring MIL-STD-704 power systems.

whether a given input signal is

sensor utilizes an integrated circuit digital logic design to

Product Facts

- 320 to 480 Hz. frequency sensor
- 1 or 2 Form C (SPDT or **DPDT**) contacts
- Hermetic package
- Many customizing options
 - 50 or 60 Hz. Sensing
 - Dual trip points
 - Tighter accuracy
 - Enclosures
 - Higher temperature range
 - Up to 4 Form C (4PDT)
 - 10A contacts

Electrical Specifications

Input Voltage: 95 to 135Vac, 400 Hz. Frequency Range: 320 to 480 Hz.

Accuracy: ±2%.

Contact Arrangement: 1 Form C (SPDT) or 2 Form C (DPDT).

Contact Ratings: 4A resistive @ 30Vdc. 2A resistive @ 115 Vrms, 400 Hz. Current Drain: 150mA maximum.

Hysterisis: 0.5% from trip point

Environmental Specifications Temperature Range:

-55°C to +85°C.

Vibration: 20 G's, 10 - 2,000 Hz. Shock: 50 G's. 11 ± 1ms duration.

Insulation Resistance: 1,000 megohms, min., at 500Vdc, all terminals to case.

Dielectric Strength: 1,000Vrms, 60 Hz., at sea level, all terminals to case.

Sealing: Hermetic, 1.3 in. (33.0mm) of mercury.

Life: 100,000 operations, min. Weight: 8.5 oz (240g) max.



Part Numbering System

Typical Part Number	7000	-2	В	- 380
Model Number: 7000 - Frequency Sensor.				
Contact Arrangement:1 = 1 Form C (SPDT)2 = 2 Form C (DPDT)		•		
Mounting (see outline dimension draw A = Studs on bottom B = Studs on top	ings): C = Studs c	on side	•	
				•

Frequency Trip Point:

Three-digit code for any value between 320 Hz. and 480 Hz

A typical part number would be 7000-2B-380. This would be a sensor with a 2 form C (DPDT) contact arrangement in a style "C" mounting, with a 380 Hz. trip point for -55°C to +85°C temperature range



Mounting Option B



- .31 [7.87]

.625

[15.875

Mounting Option C

Wiring Diagrams

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1 790

[45.47]



2 Form C

, INDEX DOT

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www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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Function Diagram ON · FREQ. TRIP POINT 0N OUTPUT OFF UNDER FREQ. OVER FREQ.

Outline Dimensions

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INDEX DOT

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Mounting Option A

1 250

[31.75]

b

POWER

2.419

[61.44]

MAX

SEATED

HEIGH

.375

[9.53]

1.284

[32.61]