

. Index LARGE (2 STANDARD STANDARD 2) (5 485 (1) 84 212 84 211 84 210 Rocker Rocker Thumbwheel Large - Panel Mount Standard - Panel Mount Standard - Panel Mount Page 7 Page 6 Page 5 MINIATURE MINIATURE STANDARD 4&5 6 84 218 84 214 84 213 Rocker Rocker Rocker Miniature - Rear Mount Miniature - Panel Mount Standard - Rear Mount Page 10 Page 9 Page 8 SUBMINIATURE MINIATURE 84 235 84 231 84 230 Thumbwheel Push Button Push Button PCB - Flat Mount Subminiature - Panel Mount Miniature - Panel Mount Page 14 Page 13 Page 12

- 1 Basic Module: Enable data input in coded form.
- 2 End Caps: Snap into place to complete module assembly. Complete with 4 panel clips.
- 3 Separator: Used to fit 2 switch assemblies into one unit. They come with 2 clips.
- 4 Spacer: Blank module used to replace a module assembly.
- 5 Encoded "Dummy" Module: Enables simultaneous switching to two circuits from one digital switch, it is driven by the adjacent module via a coupling shaft.
- 6 End Caps: For rear mounting of module assembly. They come in pairs.

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L.E.D. Readout	
How To Order – (L.E.D. Readouts)	· · · · · · · · · · · · · · · · · · ·



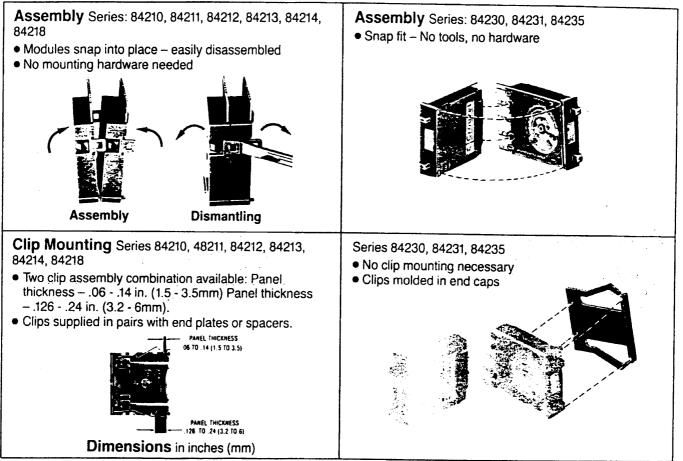
Crouzet[®] Digital Switches

General Information



Wheel Marking

- Large size figures or symbols give maximum readability.
- Complies with European Aeronautics standard BN Ae -NF L 70130
- Special markings are available on request.



Colors

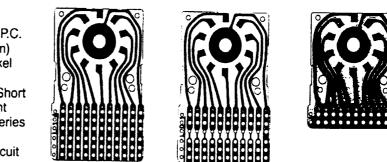
- Standard modules come in black (grey upon request).
- Standard wheels are black or red with white markings.
- Optional wheels: (except series 84230, 84231, 84235) Green or blue with white markings. Yellow with black markings

Circuit Boards

- · All our digital switches are provided with printed circuit boards made of glass-filled P.C. 75 epoxy composite board, .03 in. (.08 mm) thick, covered with copper plated with nickel and gold.
- Two types of circuit boards are available: Short for direct connection or long for component mounting such as resistors or diodes, in series or parallel. (See photos).
- Note 84231 MO1 and MO3: no long circuit board and no hole on circuit available.

Dial Stops

 Limit the rotation of the dial to any number of positions, to be specified when ordering.

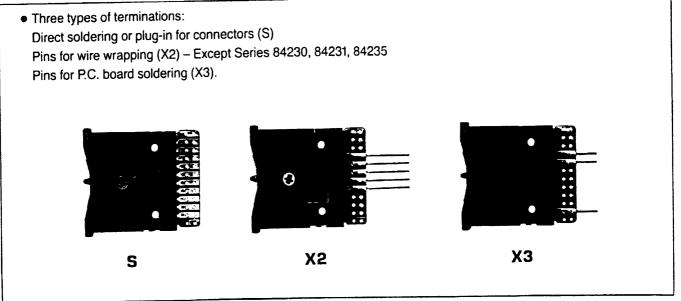




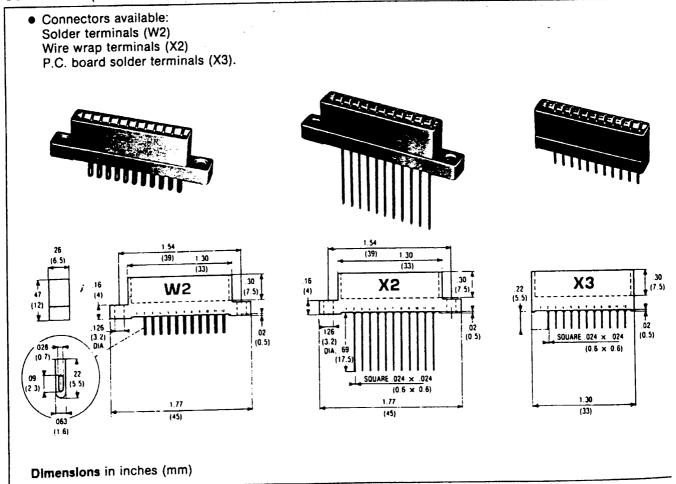


Switch Terminations and Connectors

Terminals



Connectors (for Series 84210, 84211, 84212, 84213)



4



Thumbwheel - standard - panel mount Series 84 210



- Large numerals .18 in. (4.5 mm) high
- All modules easily assembled without hardware Black or red wheels standard—other
- colors on request
- Right-sided circuits left-sided optional
- Modules will accommodate our L.E.D. readouts

Mechanical & Electrical Specifications

Operating Voltage: .1 to 250 V AC .1 to 50 V DC Nominal Electrical Load (Resistive Load): .1 mA to 100 mA Maximum Non-Switching Load: 1 A Contact Resistance: 70 mmmax. Life at 50 V DC, .1 A, Resistive Load: 1 million operations

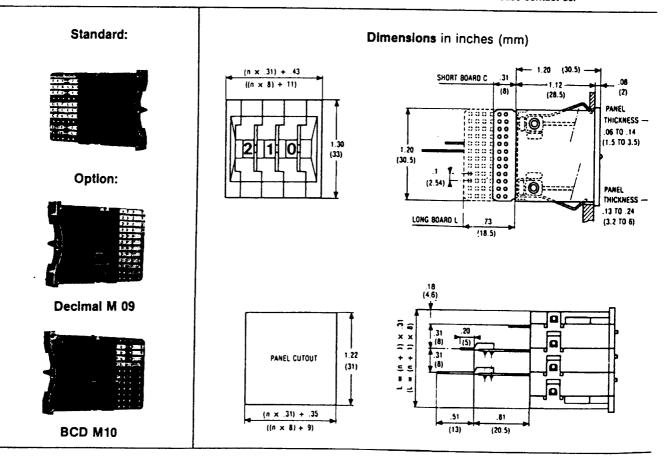
Note: For voltages and currents less than the above values, please consult us.

Dielectric Strength: 600 V F. (-25° C. to 70° C.) Storage Temperatures: -40° F. to 185° F. -40° C. to 85° C.) Dial Character Dimensions: .18 in. x .11 in. (4.5 mm x 2.8 mm) Operating Torque: 10 oz. (300 g)

Materials

Case: Noryl Wheel: Delrin Contacts and Tracks: Copper-Nickel-Gold Brush: Beryllium bronze Printed Circuit Board: Glass-filled epoxy (P.C. 75)

Option: The P.C. boards of the standard 84 210 type modules are mounted on the right side of the module. The decimal and BCD codes can, optionally, be mounted onto the left side of the module. In this case the outputs are as shown below. Please contact us.

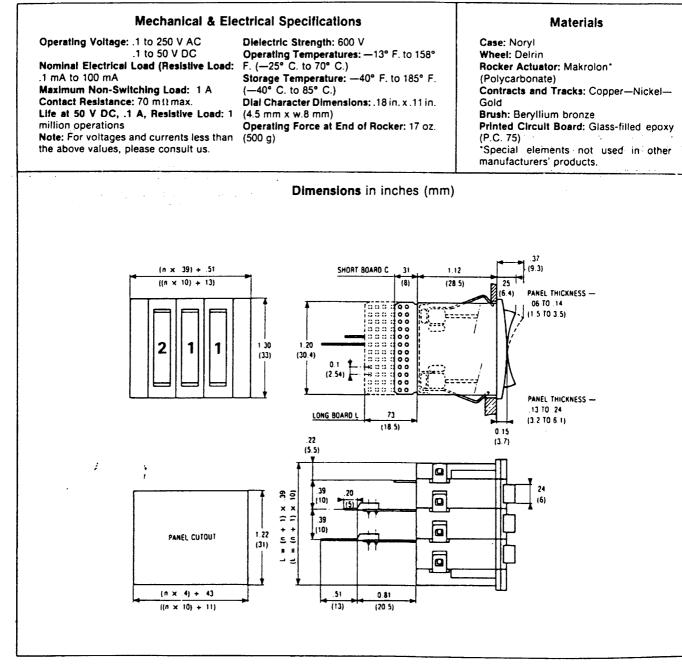




Rocker Switch - standard - panel mount Series 84 211

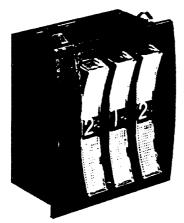


- Fast switching in both directions
- Large numerals .18 in. (4.5 mm) high
- All modules easily assembled without hardware
- Good looking—easy to read
- Black or red wheels standard other colors on request

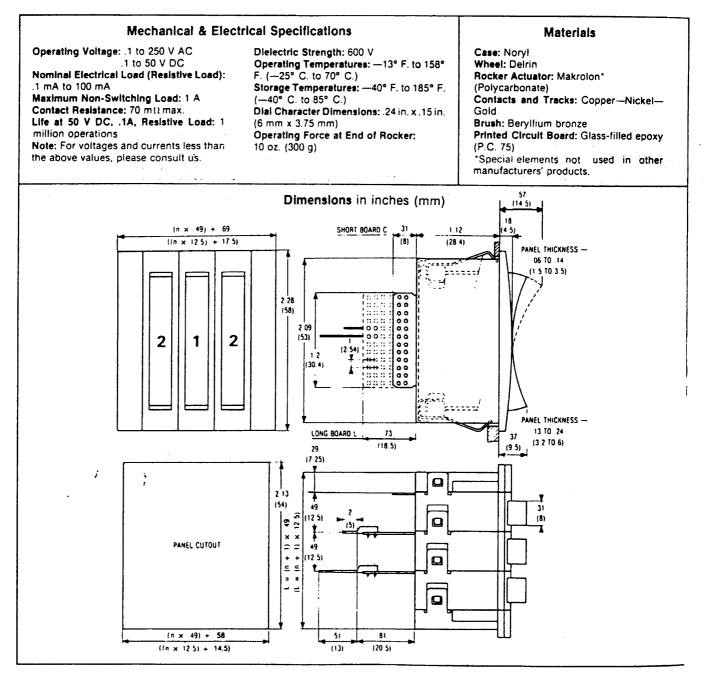




Rocker Switch - large - panel mount Series 84 212

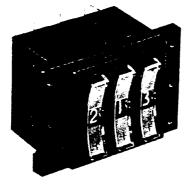


- Fast switching with large rocker actuator
- Extra large numerals .24 in. (6 mm) high for easy reading
- All modules easily assembled without hardware
- Attractive





Rocker Switch - standard - rear mount Series 84 213



- Fast switching in both directions
- Large numerals .18 in. (4.5 mm) high
- All modules easily assembled without hardware
- Good looking—easy to read
- Black or red wheels in stock other colors on request

Mechanical & Electrical Specifications

Operating Voltage: .1 to 250 V AC .1 to 50 V DC

Nominal Electrical Load (Resistive Load): 1 mA to 100 mA

Maximum Non-Switching Load: 1 A Contact Resistance: 70 mΩmax. Life at 50 V DC, .1 A, Resistive Load: 1 million operations

Note: For voltages and currents less than the above values, please consult us.

Materials

Case: Noryl Wheel: Delrin

Rocker Actuator: Makrolon*

(Polycarbonate)

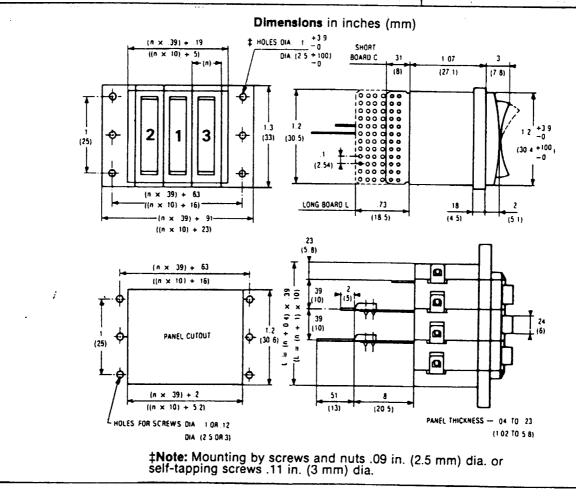
Contacts and Tracks: Copper-Nickel-Gold

Brush: Beryllium bronze

Printed Circuit Board: Glass-filled epoxy

(P.C. 75) *Special elements not used in other

manufacturers' products.



Rocker Switches

Rocker Switch - miniature - panel mount Series 84 214

Mechanical & Electrical Specifications

(n × .3) + .12

((n × 7.62) + 3)



- Fast switching in both directions
- Large numerals .16 in. (4.0 mm) high
- All modules easily assembled without hardware
- Good looking—easy to read
 Black wheels standard other colors on request

Materials

Operating Voltage: .1 to 250 V AC Case: Noryl Dielectric Strength: 600 V 1 to 50 V DC Wheel: Delrin Operating Temperatures: -13° F to 158° Nominal Electrical Load (Resistive Load): F. (-25° C. to 70° C.) Rocker Actuator: Makrolon* .1 mA to 100 mA Storage Temperatures: -40° F. to 185° F. (Polycarbonate) Maximum Non-Switching Load: 1 A Contacts and Tracks: Copper-Nickel-(-40° C. to 85° C.) Contact Resistance: 120 m max. Gold Dial Character Dimensions: .16 in. x .10 in. Life at 50 V DC, .1A, Resistive Load: 1 Brush: Beryllium bronze (4.0 mm x 2.5 mm) million operations Printed Circuit Board: Glass-filled epoxy Operating Force at End of Rocker: 17 oz. (P.C. 75) *Special elements not used in other Note: For voltages and currents less than (500 g) the above values, please consult us. manufacturers' products. **Dimensions** in inches (mm) .23 (5.8) (n × .30) + .24 SHORT BOARD C 1.02 .24 ((n × 7.62) + 6) (6) (26) .16 0 (4) PANEL THICKNESS -.04 TO .16 1000 0 0 (1 TO 4) 000 000 000 2 4 .95 .87 000 1 (24) 000 (22) 0.08 ••• LONG BOARD .63 (16) .10 (2.6) .06 (1.5) .17 .3 .3 .20 ,(7.82) ►(5) $L = (n \times .3) + .12$ (L = (n × 7.62) + 3) (4.4) .3 (7.62) .89 (22.5) PANEL CUTOUT

0.81

(20.5)

.51

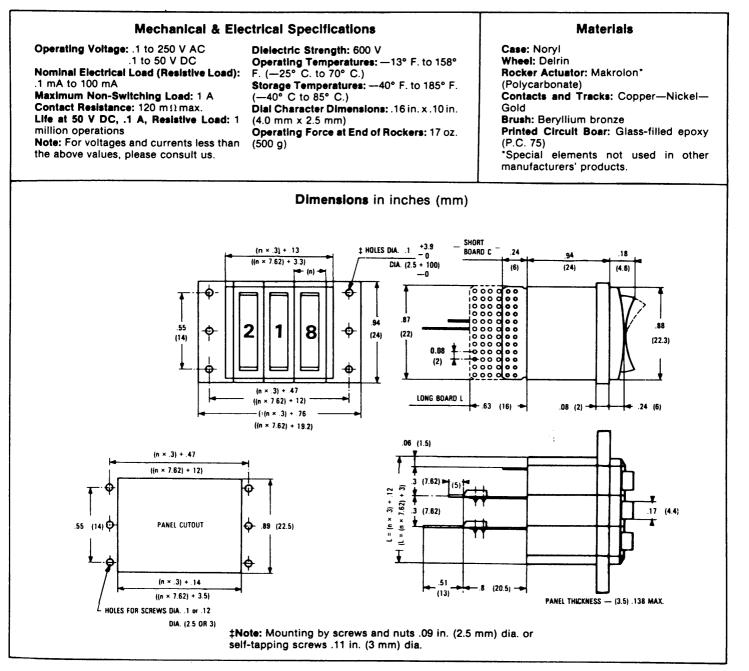
(13)

Rocker Switches

Rocker Switch - miniature - rear mount Series 84 218

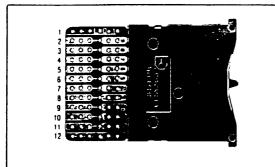


- Fast switching in both directions
- Large numerals .16 in. (4.0 mm) high
- All modules easily assembled without hardware
- Good looking—easy to read
- Black wheels in stock other colors on request





Truth Tables - Series 84 210 - 84 211 - 84 212 - 84 213 - 84 214 - 84 218

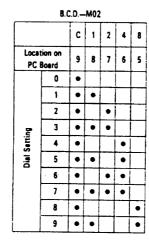


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This photograph shows the numbering of each terminal for location purposes only.

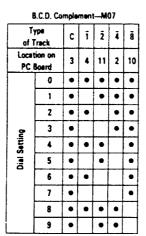
The dots indicate the inter-connected tracks for each of the dial settings.

	De	cimal		MOI	M	13_	M14	(see	note)		
		c	0	1	2	3	4	5	6	7	8	9
	ion on Board	12	11	10	9	8	7	6	5	4	3	2
	0	•	٠					Γ				Γ
	1	٠		٠				1				
	2	•			٠							
ę	3	•				٠						
Setti	4	•					٠					
Dial Setting	5	•			-			•				
-	6	•							•			
	7	•			•					•		
	8	•		. 1							٠	
	- 9	•										•



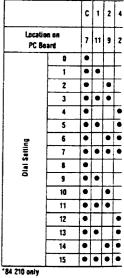
	B	.C.D.	+ (Comp	melem	mt—	M03			
		с	1	2	4	8	ī	Ž	Ā	8
	tion on Board	7	6	5	4	3	31	10	9.	8
	0	•		1			•	٠	•	•
ĺ	1	•	•	1		1		•	٠	•
	2	•		•			•		٠	•
	3	•	٠	•					٠	•
ettin	4	•			•		•	•		•
Dial Setting	5	•	٠		•			٠		•
	6	٠		•	•		٠			٠
	7	•	٠	٠	•		·			•
	8	•				•	•	•	٠	
	9.	٠	.•			٠		•	•	

2 Position Repeating-M04 Туре C 1 2 of Track Location on 2 9 8 PC Soard 5 ٠ . + 0 • . Diat Setting (To be specified) 5 ٠ • + ٠ 0 -• • 5 • . + _ 0 • . 5 + ٠ • 0 • _ • 5 ٠ • + 0 • •



	B.C.D.	EXCE	SS 6	i +	Com	plem	ent	MOB	1	
	Type of Track		1	2	4	8	ī	Ž	ī	ŝ
	tion on Board	7	6	5	4	3	11	10	9	8
	0	•		•	•		٠			•
	1	•	٠	٠	•					٠
	2	٠				٠	٠	٠	٠	
2	3	•	•			•		٠	•	
Settic	4	٠		٠		•	٠		•	
Dial Setting	5	٠	٠	٠		٠			•	
Ū	6	٠			•	٠	•	٠		
	7	٠	•		٠	٠		•		
	8	٠		٠	٠	٠	•			
	9	٠	٠	•	٠	•				

Hexadecimal B.C.D. - M 29"



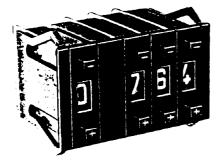
Note: In decimal and BCD the following alternatives are available.*

	Short Board MO 1-C (Decimal)	Long Boerd for Mounting of Resistors or Diodes					
	Short Board	In Series on Each Track (Interrupted Tracks)	In Parallel from Track to Track (Non-Interrupted Tracks)				
Breek Before Make	MO 1-C (Decimal) MO 2-C (BCD)	MO 1-L (Decimal) MO 2-L (8CD)	M 14-L (Decimal) M 15-L (BCD Complement)				
Make Before Break (on Request)	M 13-C (Decimal)	M 13-L (Decimal)					

*Please consult us for special codes.



Push Button - miniature - panel mount Series 84 230



- Long circuit boards have track interruption to allow series mounting of components
- All modules easily assembled without hardware
- Black wheel standard white wheel with black marking on request
- Fast, smooth switching action

Mechanical & Electrical Specifications

Max. operating voltage: switched 50 VAC unswitched 120 VAC Rated amperage: switched 1-50mA Max. amperage: unswitched 500mA Min. contact resistance: .1 ohm Min. insulation resistance: 100,000 megohms Dielectric strength: between tracks: 500 VAC

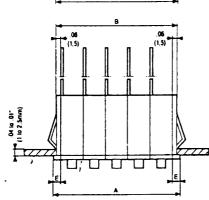
between tracks and ground: 2,500 VAC

Operating temperature: + 15°F to + 160°F (-10° C to + 70°C) Storage temperature: -40°F to + 185°F (-40° C to + 85°C) Mechanical life: 500,000 operations

Materials

Case and wheel: polycarbonate Push Buttons and thumbwheel: Delrin Printed circuit board: epoxy glass Printed contact: gold deposit Contacts: tin plated

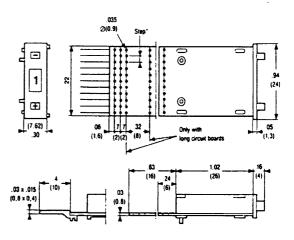
Panel cutout and front face dimensions in inches (mm)



Series 84 230

A (.30 x n) + .24 inches	(7.62 x n) + 6mm
B (.30 x n) + .12 inches	(7.62 x n) + 3mm
C (.30 x n) + .14 inches	(7.62 x n) + 3.5mm
D .89 inches	22.5mm
E.12 inches	3mm

Dimensions in inches (mm)



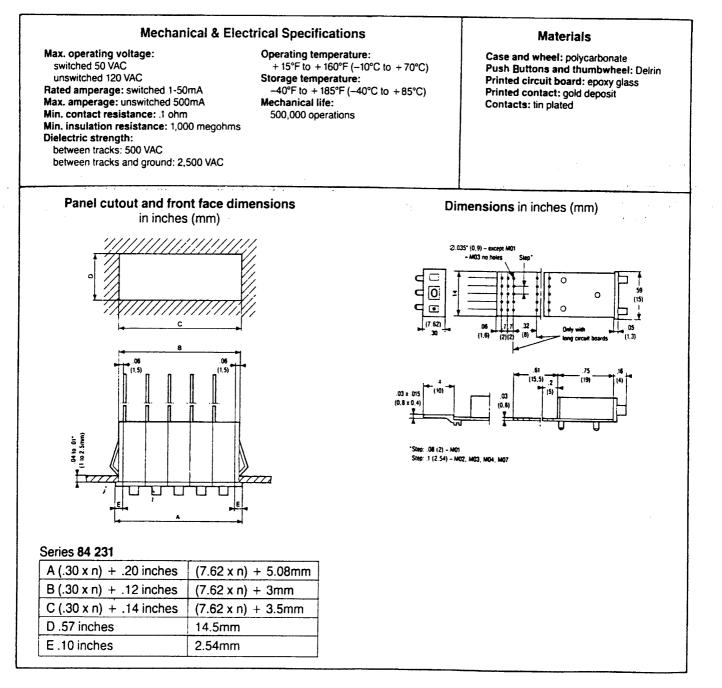
*Step: .08 (2) = M01, M03, M04, M30 Step: .1 (2.54) = M29 = M31 Step: .2 (5.08) = M02 = M07

Crouzet[®] Digital Switches

Push Button - subminiature - panel mount Series 84 231

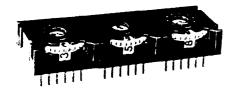


- Subminiature size only .59 inch high
- All modules easily assembled without hardware
- Black wheel standard white wheel with black markings on request
- Fast, smooth switching action





Thumbwheel - flat PCB mount Series 84 235



1.4

- Low profile specially designed for PCB mounting
- All modules easily assembled without hardware
- Black or red wheels standard white wheel with black marking on request
- Fast, smooth switching action

Mechanical & Electrical Specifications

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Max. operating voltage: 36 VDC/150 VAC Rated amperage: switched 1-100mA Max. amperage: unswitched 500mA Min. contact resistance: 1 ohm Min. insulation resistance: 1,000 megohms Dielectric strength: between tracks: 500 VAC

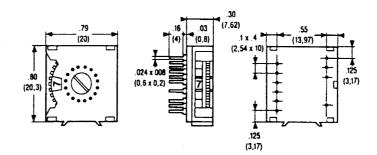
between tracks and ground: 2,500 VAC

Operating temperature: + 15°F to + 160°F (-10° C to + 70°C) Storage temperature: -40°F to + 185°F (-40° C to + 85°C) Mechanical life: 250,000 operations

Materials

Case and wheel: polycarbonate Thumbwheel: Delrin Printed circuit board: epoxy glass Printed contact: gold deposit Contacts: tin plated

Dimensions in inches (mm)

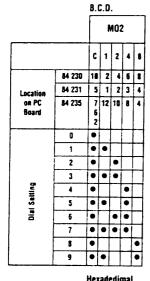




Digital Switches

Truth Tables - Series 84 230, 84 231, and 84 235

The dots indicate the inter-connected tracks for each of the dial settings.



B.C.D.

84 230 5 4 7 6 8

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84 235

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7

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A • • •

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C

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E

F

Location

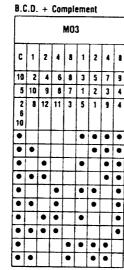
on PC Board

Dial Setting

M29

C 1 2 4 8

8 12 2 10 4 7



Hexadecimal

C 1 2

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B.C.D. + Complement

M30

4 8 1 2 4

10 3 5 9 7 4 2 8 6

4 10 11 12 8 3 2 1 5 6

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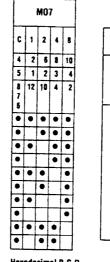
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B.C.D. Complement

2 Position Re	epea	ting			
			-	N 0-	4
			c	1	T
Location	84	230	1	2	1
on PC	84	231	2	3	T
Board	84	235	7 6	4	
	+	5	•	٠	ŀ
	-	0	•		•
=	+	5	•	٠	
Ulai Settings (To be specified)	-	0	•		•
Setti	+	5	٠	٠	
ie a	-	0	•		•
<u> </u>	+	5	•	•	
	-	0	•		•
	+	5	٠	٠	
	-	0	•		•

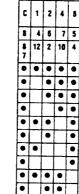
Hexadecimal B.C.D. Complement Only

M31

Loc

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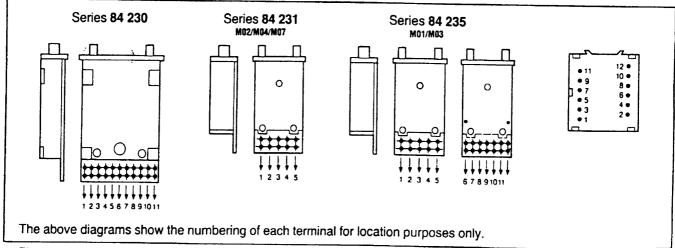
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						I	W 01	ł				
		c		1	2	3	4	5	6	7		9
cation	84 230	1	11	2	3	4	5	6	7	8	9	10
n PC	84 231	9	6	1	11	2	10	3	1	4	7	5
oard	84 235	7	5	12	11	18	9	8	1	2	3	4
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Terminal Configuration



Please consult us for special codes.

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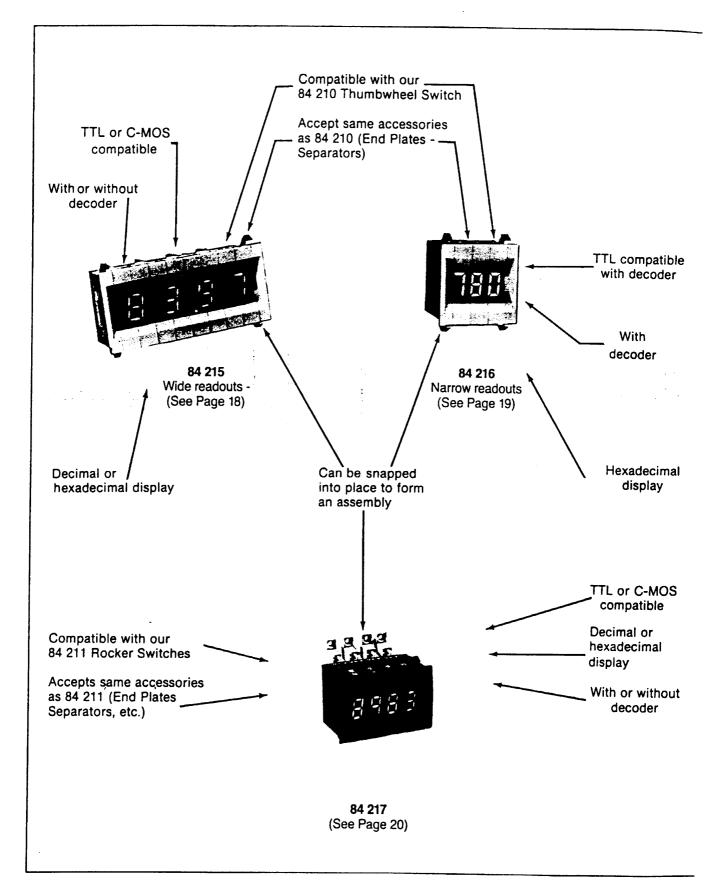


How to Order

Example of order: Thumbwheel 8	4 210 M02 L N R S 4-6
1 – Description – Rocker Thumbwheel – Push Button	
2 - Series ✓ 84 210 84 213 84 230 84 211 84 214 84 231 84 212 84 218 84 235	
3 - Code Definition N - Decimal N - Binary BCD 1-2-4-8 N - Binary BCD 1-2-4-8 + complement N - 2 position repeating (+/-) or (0/5) N - BCD complement N - BCD excess 6 + complement N - Hexadecimal BCD* N - Hexadecimal BCD + complement** N - Hexadecimal BCD complement** N *84 210, 84 230, 84 235 only **84 230 and 84 235 only	A 02 Juni A 03 A 04 A 07 A 08 A 29 A 30
4 – Circuit Board – Short (standard): C – Long: V LV	
5 – Case Color – – Black: (standard) N 🛩 – Grey: (optional) G	
6 – Wheel Color – Black: (standard) N – Red: (standard) R – Yellow: (optional) J – Green: (optional) V – Blue: (optional) R	
 7 - Terminations	2 3
 Indicate the 1st and last positions e.g. possible positions: 4-5-6 blocked positions: 7-8-9-0-1-2-3 	ACCESSORIES (see page 2) (specify digital switch series number) • Pair of End Caps including Clips. JE/ (color: N – black: standard G – grey: optional)
Above example to be read as: 1 – Thumbwheel switch 2 – 84 210 3 – binary BCD 1-2-4-8 – M 02 4 – Long circuit board 5 – Black case 6 – Red wheel 7 – Standard solder terminals 8 – Possible positions 4-5-6	 Spacer: MI Encoded "Dummy" Module: MC – also specify code, circuit board, color connections Separator including Clips: MS Connector for Plugging of Circuit C: CR/W2-Solder Terminals CR/X2-Wire Wrapping Terminals CR/X3-PC Board Pins

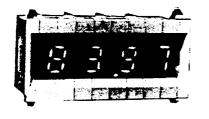
Crouzet [®] Digital Switches

L.E.D. Readouts - 3 main families



Crouzet[®] Digital Switches

L.E.D. Readouts - wide readout - panel mount Series 84 215



- The L.E.D. readout modules type 84 215 can work alongside our Thumbwheel switches, 84 210 Series.
- The same accessories (end plates, separators, etc.) can be used. This allows the assembly of counting and programming systems, offering a consistent design in a small size.
- As with our Thumbwheel switches, these modules can be snapped into place to form an assembly.
- Choice of decoders (TTL or C-MOS), memory, voltages.
- Three versions are available.

Common Specifications

Figure Height: .433 in. (11 mm) Module Width: .62 in. (16 mm) Color: Red Operating Temperature: +32° F to +140° F. (0° C. to 60° C.) Case Color: Black (standard) or grey (upon request)

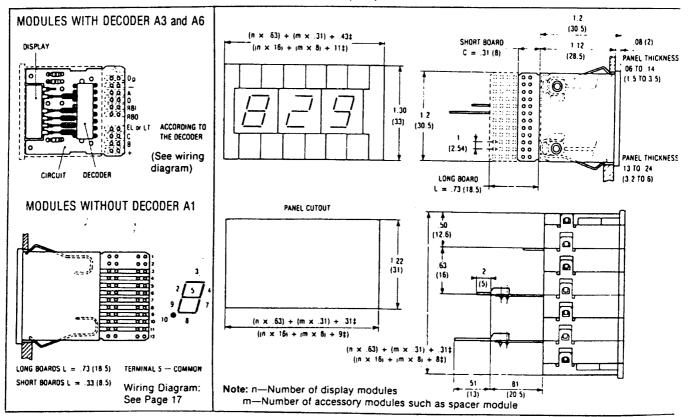
Current Per Segment: 7 mA Display: H.P. 5082 - 7653 RBI - RBO output on all modules (except A1) Common Cathode

Particular Specifications

	BCD Dec	BCD Decoder		EL Output	Positi Decima	ion of Il Point	Typical Consumption of Decoder at	Voltages	Type of
Code	C-MOS	TTL	Test)	(Memory)	Left	Right	75° F (25° C)	Available	Display
· A1	No	No	Yes	No		•	N.A.	5 V (standard) 12-15-24 V (on request)	According to User's decoder
A3	MM74 C48	No	Yes	No		•	0.05 μA	5 V (standard) 12-15 V (on request)	Decimal
A6	No	9368	No	Yes		٠	45 mA	5 V	Hexadecimal

Terminations

Dimensions in inches (mm)



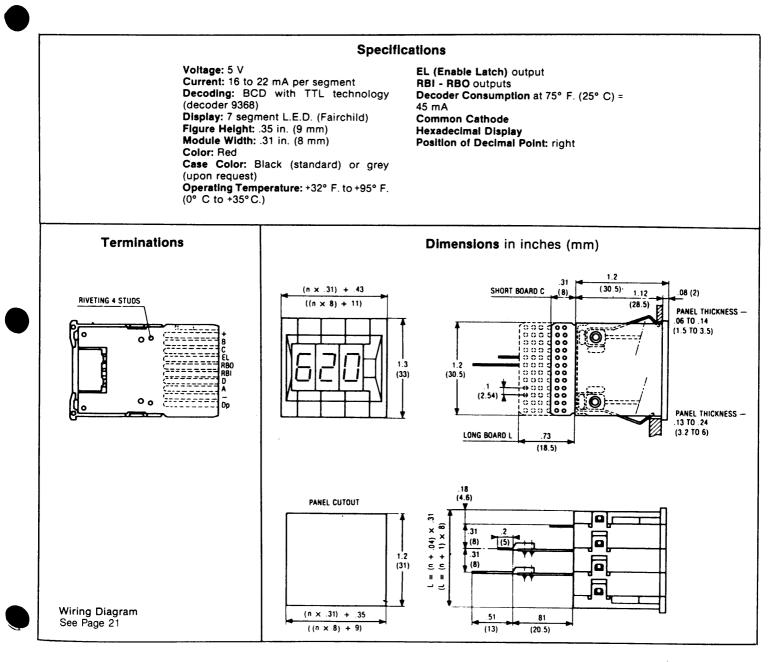
L.E.D. Readout Modules

L.E.D. Readouts - narrow readout - panel mount Series 84 216



With Memory

- The L.E.D. readout modules type 84 216 can be mounted together with the 84 215 L.E.D and/or 84 210 Thumbwheel.
- Therefore, the same accessories (end plates and separators) are used.
- The thickness of these modules is .31 in. (8 mm)
- The clip mounting offers a consistent design in a small size.
- Snap on assembly requires no hardware.
- Our modules are equipped with a decoder BCD compatible with TTL technology.



L.E.D. Readout Modules

L.E.D. Readouts - panel mount Series 84 217 - compatible with Rocker Switches



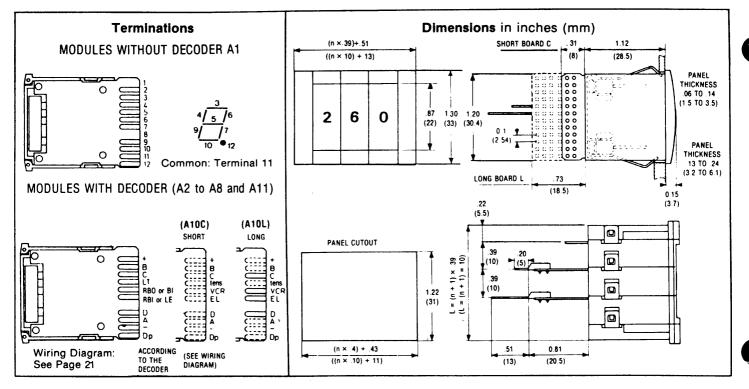
- The L.E.D. readout modules type 84 217 can be mounted together with our 84 211 Rocker switches.
- The same accessories (end plates, separators, etc.) can be used.
- As with our Rocker switches, these modules can be snapped into place to form an assembly.
- Choice of decoders, (TTL or C-MOS), memory (EL), voltages etc.
- Six versions are available.

Common Specifications

Figure Height: .39 in (10 mm) Module Width: .39 in (10 mm) Color: Orange Operating Temperature: +32° F to +140° F. (0° C. to 60° C.) Case Color: Black (standard) or grey (upon request) Current Per Segment: 7 mÅ Display: MAN 4640 (except 84 217-A11: MAN 4605) Common Cathode Position of Decimal Point: right

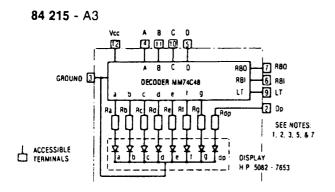
Particular Specifications

	BCD Decode		LT Output (Lamp	EL Output	RBI-RBO	Typical Consumption of Decoder at	Voltages	Type of
Code	C-MOS	TTL	Test)	(Memory)	Outputs	75° F. (25° C.)	Available	Display
A1	No Decoder	No Decoder	No	No	No	Not Applicable	5 V (standard) 12-15-24 V (on request)	Depends upon User's Decoder
A3	MM 74C48		Yes	No	Yes	0.05 µ A	5 V (standard) 12-15 V (on request)	Decimal
A6	1	9368	No	Yes	Yes	45 mA	5 V	Decimal
A8	MC 14511		Yes	Yes	No	0.015 µ A	5 V (standard) 12-15-24 V (on request)	Decimal
A10	MC 14495		No	Yes	No	0.05 µ .A	5 V (standard) 12-15-24 V (on request)	Hexadecimal
A11	MC 14511		Yes	Yes	No	0.015 µ A	5 V (standard) 12-15-24 V (on request)	<u>+</u> 1

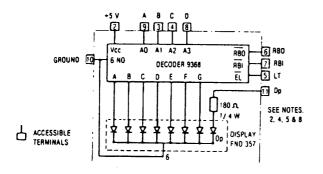


Crouzet[®] Digital Switches

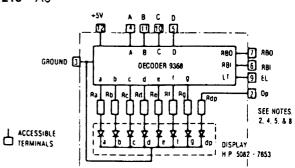
L.E.D. Readouts - Wiring Diagrams



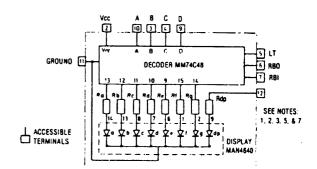
84 216



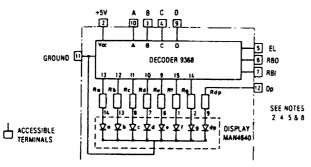
84 215 - A6



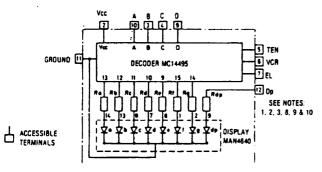
84 217 - A3



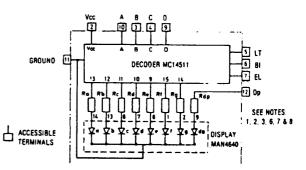
84 217 - A6



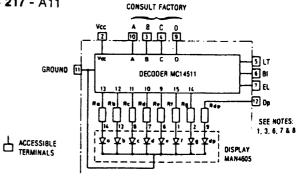
84 217 - A10



84 217 - A8



84 217 - A11



21

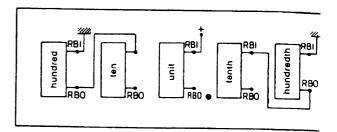
Crouzet Digital Switches

L.E.D. Readouts - Wiring Diagrams

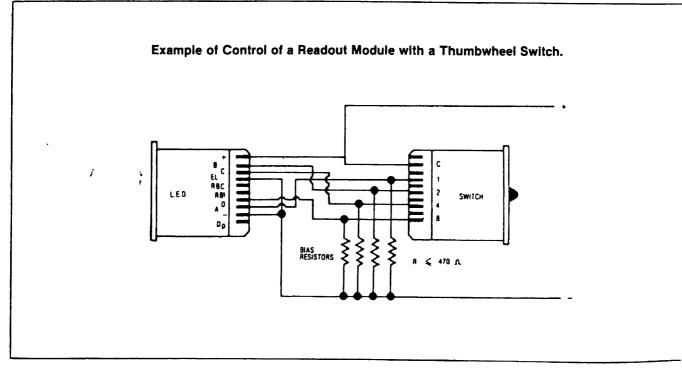
Notes:

- 1. Vcc = 5, 12, 15 or 24 V according to the model (5 V standard 12, 15 and 24 V on request).
- 2. A, B, C and D correspond respectively to 1, 2, 4 and 8 of BCD code.
- 3. In all C-MOS decoders, it is mandatory that all inputs be connected at ALL times either to the + or the ground (except RBI-RBO - see note 5). The use of bias resistors is therefore necessary (see diagram).Should an input not be used at all, it may be directly connected either to the + or the ground (depending on the function).
- For TTL decoders, should an input not be connected to either the + or the ground, the decoder might not work properly (while not connected), but it would not be destroyed.
- 5. The non-significant zeros are cancelled when RBI (Ripple Blanking Input) is connected to the ground, if several modules are connected together the RBI of the module adjacent to the module of the units (eg: ten or tenth) must be connected to the RBO (Ripple Blanking Output) of the next unit (hundred or hundreth) etc. The first RBO's (ten and tenth) as well as the unit's are left unconnected. (the zero of the unit is never cancelled).

If the zero cancellation is not required, the RBI inputs must be connected to the + of the power supply and RBO must be left unconnected.



- Connecting BI (Blanking Input) to the ground can the display (otherwise connect BI to + of supply)
- Connecting LT (Lamp Test) input to ground make possible to control all segments (otherwise connec to + of supply).
- Connecting EL (Enable Latch) to + of supply keeps display in memory. Otherwise connect EL to grou
- TEN output is in state "O" when digits from 0 to 9 displayed and in state "1" when digits from A to F displayed.
- 10. VCR output is open for displays from O to E. When displayed the state is "0".



○ Digital Switches

L.E.D. Readouts - How to Order

Type 84 215: width62 in. (16 mm), figure height43 in. (11 mm) 84 216: width31 in. (8 mm), figure height35 in (9 mm) 84 217: width39 in. (10 mm), figure height39 in. (10 mm) -Code Definition 84 215: Display + resistors (no decoder) 84 215: Display + resistors (no decoder) 84 215: Display + resistors (no decoder) 84 215: Display + TTL, and memory decoder 84 216: Display + TTL, and memory decoder 84 217: Display + TTL, and memory decoder 84 217: Display + C-MOS decoder 84 217: Display + C-MOS decoder 84 217: Display + C-MOS, memory decoder 95 volts: 0 -5 volts: 1 -15 volts: 2 -24 volts: 3 -Clrcuit board -Short: C (except for 24 V versions) -Long: L -Case color -Black: N (standard) -Grey: G (optional) -Corange: O (for 84 215 and 84 216) -Orange: O (for 84 217) -Terminations	Example of order: Readout Module 84 215 A3 O L	N	R	S
84 215: width62 in. (16 mm), figure height43 in. (11 mm) 84 216: width31 in. (8 mm), figure height35 in (9 mm) 84 217: width39 in. (10 mm), figure height39 in. (10 mm) Code Definition 84 215: Display + resistors (no decoder)	1—Description ———			
84 216: width31 in. (8 mm), figure height35 in (9 mm) 84 217: width39 in. (10 mm), figure height39 in. (10 mm) Code Definition 84 215: Display + resistors (no decoder)	2—Type —	1		
84 217: width39 in. (10 mm), figure height39 in. (10 mm) -Code Definition 84 215: Display + resistors (no decoder)				
Code Definition 84 215: Display + resistors (no decoder) 84 215: Display + C-MOS decoder 84 215: Display + TTL, and memory decoder 84 216: Display + TTL, and memory decoder 84 217: Display + TTL, and memory decoder 84 217: Display + resistors (no decoder) 84 217: Display + TTL, memory decoder 84 217: Display + TTL, memory decoder 84 217: Display + C-MOS, memory decoder 84 217: Display + 1 + C-MOS, memory decoder 84 217: Display + 1 + C-MOS, memory decoder 9 <				
84 215: Display + resistors (no decoder)	84 217: width39 in. (10 mm), figure height39 in. (10 mm)			
84 215: Display + C-MOS decoder	3-Code Definition			
84 215: Display + TTL, and memory decoder				
84 216: Display + TTL, and memory decoder				
84 217: Display + resistors (no decoder)	84 215: Display + TTL, and memory decoderA6			
84 217: Display + C-MOS decoder	84 216: Display + TTL, and memory decoderB			
84 217: Display + TTL, memory decoder	84 217: Display + resistors (no decoder) A1			
84 217: Display + TTL, memory decoder	84 217: Display + C-MOS decoderA3			
84 217: Display + C-MOS, memory decoder				
84 217: Display + C-MOS, memory decoder				
84 217: Display +1 + C-MOS, memory decoderA11 -Voltages -5 volts: 0 ✓ -12 volts: 1 -15 volts: 2 -24 volts: 3 -Circuit board -Short: C (except for 24 V versions) -Long: L ✓ -Case color -Black: N (standard) ✓ -Grey: G (optional) -Color of Display -Red: R (for 84 215 and 84 216) ✓ -Orange: O (for 84 217) -Terminations				
-Voltages 5 volts: 0 ✓ 12 volts: 1 15 volts: 2 24 volts: 3 Circuit board Short: C (except for 24 V versions) Long: L ✓ Case color Black: N (standard) ✓ Grey: G (optional) Color of Display Red: R (for 84 215 and 84 216) ✓ Orange: O (for 84 217)				
5 volts: 0 ✓ 12 volts: 1 15 volts: 2 24 volts: 3 Circuit board	4—Voltages			
—15 volts: 2 —24 volts: 3 —Circuit board —Short: C (except for 24 V versions) —Long: L ✓ —Case color —Black: N (standard) ✓ —Grey: G (optional) —Color of Display —Red: R (for 84 215 and 84 216) ✓ —Orange: O (for 84 217)				
—15 volts: 2 —24 volts: 3 —Circuit board —Short: C (except for 24 V versions) —Long: L ✓ —Case color —Black: N (standard) ✓ —Grey: G (optional) —Color of Display —Red: R (for 84 215 and 84 216) ✓ —Orange: O (for 84 217)	-12 volts: 1			
—24 volts: 3 —Circuit board				
—Circuit board				
—Short: C (except for 24 V versions) —Long: L ✓ —Case color —Black: N (standard) ✓ —Grey: G (optional) —Color of Display —Red: R (for 84 215 and 84 216) ✓ —Orange: O (for 84 217) —Terminations	5-Circuit board			
—Long: L ✓ —Case color —Black: N (standard) ✓ —Grey: G (optional) —Color of Display —Red: R (for 84 215 and 84 216) ✓ —Orange: O (for 84 217) —Terminations				
 Case color Black: N (standard) ✓ Grey: G (optional) Color of Display Red: R (for 84 215 and 84 216) ✓ Orange: O (for 84 217) Terminations 				
—Black: N (standard) ✓ —Grey: G (optional) —Color of Display	•			
Grey: G (optional)Color of DisplayRed: R (for 84 215 and 84 216)Orange: O (for 84 217)Terminations				
	· · ·			
Red: R (for 84 215 and 84 216) Orange: O (for 84 217) Terminations				
Orange: O (for 84 217) Terminations				
-Terminations	•			
	8-Terminations			

-Other: for wire wrap: X2 (please consult us)

pins for P.C. Board soldering: X3 (please consult us)

connector (see digital switches: S

Above example to be read as:

1-Readout module

- 2-84 215 width .62 in. (16 mm); figure height .43 in. (11 mm)
- 3-C-MOS decoder
- 4-5 volts
- 5-Long circuit board
- 6-Black case
- 7-Red display
- 8—Standard solder terminals

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