# LAMP CABINETS AND INDICATORS









onan's extensive line of Lamp Cabinets and
Indicators is designed for indicating visual status from
remote annunciator logic, Programmable Logic
Controllers (PLCs) or from ON/OFF relay or solid state
drivers.

We offer a large variety of window sizes and customized array assemblies so you can select the optimal window size based on your available panel space. And our unique window bezels ensure you of the proper window location when re-lamping is required.

Our displays are equipped with either multiple incandescent bulbs or multiple Light Emitting Diode (LED) assemblies, which provide a virtually infinite display life.

Individual window display termination is made directly to compression-type terminals or via lug connectors to screw-type terminals. In applications requiring premanufactured cable connection, we furnish multipin connectors to meet customer specifications.

Our lamp cabinets combine excellent mechanical design with superb structural integrity. The aluminum extrusion construction assures you of the best available heat dissipation during continuous operating conditions as well as a pleasing outward appearance.

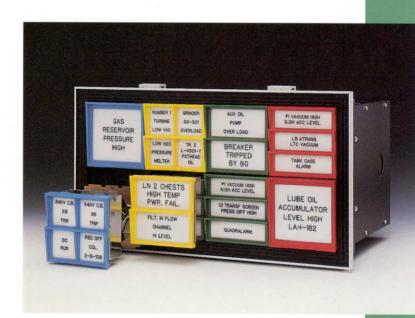
Ronan's Lamp Cabinet/Indicator Series. Maximum flexibility along with virtually maintenance-free operation, adds up to the quality and value you're looking for.

The Series LC Lamp Cabinets provide maximum flexibility in terms of future expansion, intermix of window sizes and lamp test capabilities. The units feature plug-in modules with four window sizes, diode-gated lamp test for dc voltages, and relay type for ac voltages. Colored bezels and nameplates or sandwich lenses facilitate identification of plant location or functions and level of priorities of alarm.

Integral push-button modules can be installed for lamp test and operating controls for remote annunciator logic.

Two isolated screw terminals are supplied for each window for direct external connection or factory wiring to cabinet mounted multipin connectors. This allows interface via multiconductor cables to the driver logic.

Each window is illuminated by two lamps for increased reliability and uniform light distribution. The LCP-4 single lamp per window module is available where economy and reduced power consumption are of primary concern.



## **SPECIFICATIONS**

Standard Voltages: 24 Vdc, 48 Vdc, 125 Vdc, 24 Vac, 48 Vac, 115 Vac.

Cabinet Size: Any number of cabinet modules high and wide. (May exceed the numbers shown in the table below.)

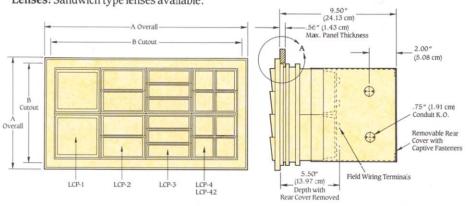
Lamp Wattage: Two each 2-Watt lamps per window. 115 Vac and 125 Vdc modules have 3-Watt lamps. (LCP-4 has one 2-Watt lamp per window.)

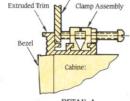
**Expandability:** Specify the cabinet for the maximum number of windows per cabinet modules desired in the future, e.g., an LC-4000 accepts LCP-42, LCP-4, LCP-3, LCP-2 and LCP-1.

Intermixability: Any plug-in module up to the maximum window number per cabinet module specified.

Lenses: Sandwich type lenses available.

To Order:





DETAIL A

2.4LC-4000

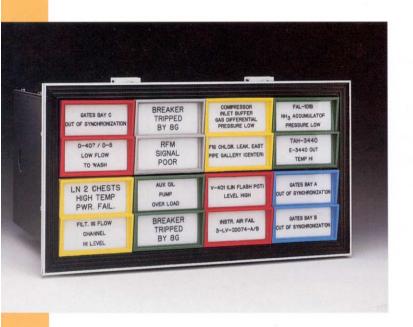
Wired for Up to Eight Modules of LCP-4
(32 Windows)

Cabinet Modules Wide
Cabinet Modules High

	Cabinet Modules Wide  Cabinet Modules High
LCP-( )-	( ) Lamp Module
	LCP-3 Standard LCPB-( ) = Push-button Module LC2PB-( ) = Push-button Module LC3PB-( ) = Push-button Module LC4PB-( ) = Push-button Module LC4PB-( ) = Push-button Module LC4PB-( ) = Push-button Module HS-Hermetically Sealed

No. of Lamp	Dimensions	Dimensions	LC-1000 Window Size 3.5 in. H×3.5 in. W (8.89 cm×8.89 cm)		LC-2000 Window Size 1.75 in. H×3.5 in. W (4.45 cm×8.89 cm)		3000 bw Size ×3.5 in. W ×8.89 cm)	LC-4000 Window Size 1.75 in. H×1.75 in. W (4.45 cm×4.45 cm)	
Cabinet Modules High or Wide	A-Overall inches (cm)	B-Cutout inches (cm)	No. of Windows High or Wide	No. of Windows High Wide		No. of Windows High Wide		No. of Windows High or Wide	
1	5.00 (12.70)	4.38 (11.13)	1	2	1	3	1	2	
2	8.50 (21.59)	7.88 (20.02)	2	4	2	6	2	4	
3	12.00 (30.48)	11.38 (28.91)	3	6	3	9	3	6	
4	15.50 (39.37)	14.88 (37.80)	4	8	4	12	4	8	
5	19.00 (48.26)	18.38 (46.69)	5	10	5	15	5	10	
6	22.50 (57.15)	21.88 (55.58)	6	12	6	18	6	12	
7	26.00 (66.04)	25.38 (64.47)	7	14	7	21	7	14	
8	29.50 (74.93)	28.88 (73.36)	8	16	8	24	8	16	
9	33.00 (83.82)	32.50 (82.55)	9	18	9	27	9	18	
10	36.50 (92.71)	36.00 (91.44)	10	20	10	30	10	20	
11	40.00 (101.60)	39.50 (100.33)	11	22	11	33	11	22	
12	43.50 (110.49)	43.00 (109.22)	12	24	12	36	12	24	

# $S_{ERIES}$ LB



The Series LB Lamp Cabinet is an excellent choice for fixed window applications where external lamp test is available.

Isolated screw terminals are supplied for each window. This allows direct external connection or factory wiring to cabinet mounted multipin connectors for interface via multiconductor cables to the remote driver logic.

Each window offers two lamps for increased reliability and uniform light distribution.

The cabinet is factory assembled from the basic cabinet modules to fit your panel space in as many modules high and wide as desired. The all aluminum construction provides excellent heat dissipation to prevent any nameplate or bezel distortion from the lamp's heat.

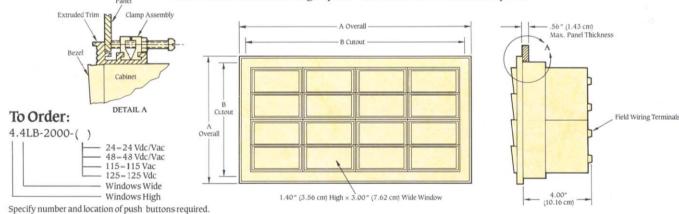
## **SPECIFICATIONS**

Standard Voltages: 24 Vdc, 48 Vdc, 125 Vdc, 24 Vac, 48 Vac, 115 Vac.

Cabinet Size: Any number of windows high and wide. (May exceed the numbers shown in the table below.) Lamp Wattage: Two each 2-Watt lamps per window, except LB-4100 which has one 2-Watt lamp. 115 Vac and 125 Vdc models have 3-Watt lamps.

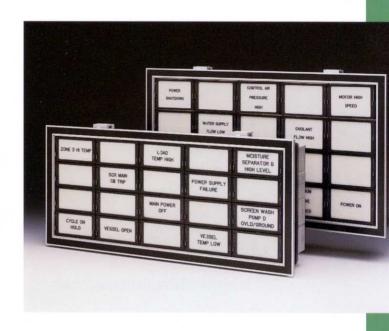
**Lenses**: Sandwich type lenses available.

Push-button Modules: Integral push-button modules offered as an option.



No. of Lamp	Dimensions	Dimensions	LB-1000 Window Size 3.5 in. H×3.5 in. W (8.89 cm×8.89 cm)	LB-2000 Window Size 1.75 in. H×3.5 in. W (4.45 cm×8.89 cm) No. of Windows High Wide		LB-3000 Window Size 1.16 in. H×3.5 in. W (2.95 cm×8.89 cm) No. of Windows High Wide		LB-4000 Window Size 1.75 in. H×1.75 in. W (4.45 cm×4.45 cm)
Cabinet Modules High or Wide	A-Overall inches (cm)	B—Cutout inches (cm)	No. of Windows High or Wide					No. of Windows High or Wide
1	5.00 (12.70)	4.38 (11.13)	1	2	1	3	1	2
2	8.50 (21.59)	7.88 (20.02)	2	4	2	6	2	4
3	12.00 (30.48)	11.38 (28.91)	3	6	3	9	3	6
4	15.50 (39.37)	14.88 (37.80)	4	8	4	12	4	8
5	19.00 (48.26)	18.38 (46.69)	5	10	5	15	5	10
6	22.50 (57.15)	21.88 (55.58)	6	12	6	18	6	12
7	26.00 (66.04)	25.38 (64.47)	7	14	7	21	7	14
8	29.50 (74.93)	28.88 (73.36)	8	16	8	24	8	16
9	33.00 (83.82)	32.50 (82.55)	9	18	9	27	9	18
10	36.50 (92.71)	36.00 (91.44)	10	20	10	30	10	20
11	40.00 (101.60)	39.50 (100.33)	11	22	11	33	11	22
12	43.50 (110.49)	43.00 (109.22)	12	24	12	36	12	24

The Series LB-2100/LB-2200 Lamp Cabinets are factory assembled from single-size modules in any number of windows high or wide to accommodate customer requirements for window size and panel cutout. The lamp assembly features colored bezels and nameplates. Rear panel screw terminals allow external connection or factory wiring to multipin connectors to interface via multiconductor cables to the lamp driver logic. The two parallel connected lamps are available for 24 Vdc or Vac, 48 Vdc or Vac, 115 Vac or 125 Vdc. The LB-2100 features a nominal window size of 1.5 inches by 3 inches, and the LB-2200 is 2 inches by 3 inches.



LB-2200 Dimensions

## **SPECIFICATIONS**

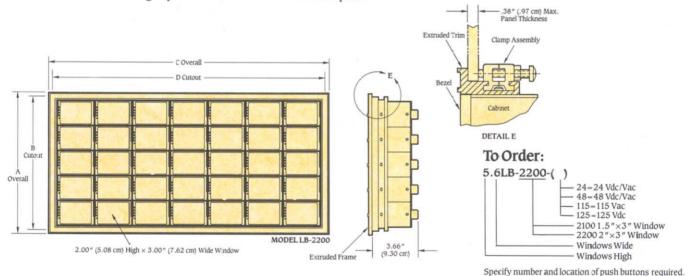
Standard Voltages: 24 Vdc, 48 Vdc, 125 Vdc, 24 Vac, 48 Vac, 115 Vac.

Cabinet Size: Any number of windows high and wide. (May exceed the numbers shown in the table below.)

Lenses: Sandwich type lenses available.

Push-button Modules: Integral push-button modules offered as an option.

LB-2100 Dimensions



Windows High Windows Wide Windows High Windows Wide B-Cutout C-Overall D-Cutout C-Overall No. of A-Overall A-Overall B-Cutout D-Cutout Windows inches (cm) 2 4.28 (10.87) 3.75 (9.53) 7.28 (18.49) 6.75 (17.15) 5.28 (13.41) 4.75 (12.07) 7.28 (18.49) 6.75 (17.15) 3 5.78 (14.68) 5.25 (13.34) 10.28 (26.11) 9.75 (24.77) 7.28 (18.49) 6.75 (17.15) 10.28 (26.11) 9.75 (24.77) 4 7.28 (18.49) 6.75 (17.15) 13.28 (33.73) 12.75 (22.39) 9.28 (23.57) 8.75 (22.23) 13.28 (33.73) 12.75 (32.39) 5 8.78 (22.30) 8.25 (20.96) 16.28 (41.35) 15.75 (40.01) 11.28 (28.65) 10.75 (27.31) 16.28 (41.35) 15.75 (40.01) 19.28 (48.97) 6 10.28 (26.11) 9.75 (24.77) 18.75 (47.63) 13.28 (33.73) 12.75 (32.39) 19.28 (48.97) 18.75 (47.63)

7 11.78 (29.92) 11.25 (28.58) 22.28 (56.59) 21.75 (55.25) 15.28 (38.81) 14.75 (37.47) 22.28 (56.59) 21.75 (55.25) 13.28 (33.73) 12.75 (32.39) 25.28 (64.21) 24.75 (62.87) 17.28 (43.89) 16.75 (42.55) 25.28 (64.21) 24.75 (62.87) 14.78 (37.54) 14.25 (36.20) 28.28 (71.83) 27.75 (70.49) 19.28 (48.97) 18.75 (47.63) 28.28 (71.83) 27.75 (70.49) 10

16.28 (41.35) 15.75 (40.01) 31.28 (79.45) 30.75 (78.11) 21.28 (54.05) 20.75 (52.71) 31.28 (79.45) 30.75 (78.11) 33.75 (85.73) 11 17.78 (45.16) 17.25 (43.82) 34.28 (87.07) 23.28 (59.13) 22.75 (57.79) 34.28 (87.07) 33.75 (85.73) 12 19.28 (48.97) 18.75 (47.63) 37.28 (94.69) 36.75 (93.35) 25.28 (64.21) 24.75 (62.87) 37.28 (94.69) 36.75 (93.35)



The Series LB-2448 Lamp Cabinets are factory assembled from single metric-sized modules 24 mm high by 48 mm wide. The lamp cabinet may be any number of windows high or wide. Windows are illuminated by two incandescent bulbs or a number of high intensity LEDs. The window bezels and nameplates are available in a variety of colors. The assembly provides rear mounted compression-type terminals for external wiring termination or factory wiring to multipin connectors allowing interface via multiconductor cables to the lamp driver logic. Standard voltages are 24 Vdc for LED type displays and 24 Vdc/Vac, 48 Vdc/Vac, 125 Vdc or 115 Vac for incandescent lamps.

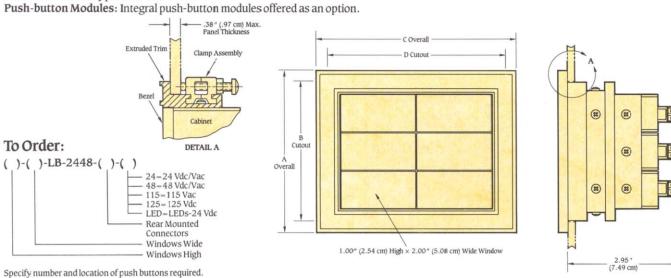
## **SPECIFICATIONS**

Standard Voltages: Lamps-24 Vdc/Vac, 48 Vdc/Vac, 125 Vdc, 115 Vac; LEDs-24 Vdc.

Cabinet Size: Any number of windows high and wide. (May exceed the numbers shown in the table below.)

Lamp Wattage: Incandescent—Two 2-Watt lamps per window; LEDs—1 Watt power dissipation; 36 mA @24 Vdc per window.

Lenses: Sandwich type lenses available.



	Windov	vs High	Windov	ws Wide		Windov	vs Wide
No. of Windows	A-Overall inches (cm)	B—Cutout inches (cm)	C—Overall inches (cm)	D—Cutout inches (cm)	No. of Windows	C-Overall inches (cm)	D—Cutout inches (cm)
1	2.28 (5.79)	1.71 (4.34)	3.31 (8.41)	2.74 (6.96)	13	27.67 (70.28)	27.10 (68.83)
2	3.31 (8.41)	2.74 (6.96)	5.34 (13.56)	4.77 (12.12)	14	29.70 (75.44)	29.13 (73.99)
3	4.34 (11.02)	3.77 (9.58)	7.37(18.72)	6.80 (17.27)	15	31.73 (80.59)	31.16 (79.15)
4	5.37 (13.67)	4.80 (12.19)	9.40 (23.88)	8.83 (22.43)	16	33.76 (85.75)	33.19 (84.30)
5	6.40 (16.26)	5.83 (14.81)	11.43 (29.03)	10.86 (27.58)	17	35.79 (90.91)	35.22 (89.46)
6	7.43 (18.88)	6.86 (17.42)	13.46 (34.19)	12.89 (32.74)	18	37.82 (96.06)	37.25 (94.62)
7	8.46 (21.49)	7.89 (20.04)	15.49 (39.34)	14.92 (37.90)	19	39.85 (101.22)	39.28 (99.77)
8	9.49 (24.10)	8.92 (22.66)	17.52 (44.50)	16.95 (43.05)	20	41.88 (106.38)	41.31 (104.93)
9	10.52 (26.73)	9.95 (25.27)	19.55 (49.66)	18.98 (48.21)			
10	11.55 (29.34)	10.98 (27.89)	21.58 (54.81)	21.01 (53.37)			
11	12.58 (31.95)	12.01 (30.51)	23.61 (59.97)	23.04 (58.52)			
12	13.61 (34.57)	13.04 (33.12)	25.64 (65.13)	25.07 (63.68)			

The Series LB-1500 Lamp Cabinet is factory assembled from high density aircraft-type lamp modules in any number of windows high or wide. The lamp assembly features front access relamping and solid color or sandwich lenses. Solder-type terminals allow external connection or factory wiring to multipin connectors that interface via multiconductor cables to the lamp driver logic. Lamp voltages of 6, 24, and 28 volts are standard. LED type displays are available for 24 Vdc.



## **SPECIFICATIONS**

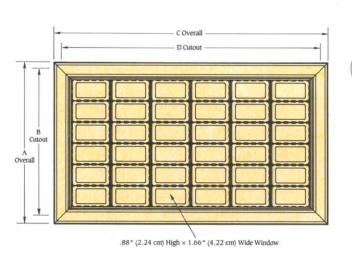
Standard Voltages: 6, 24 or 28 Vdc/Vac; LEDs 24 Vdc.

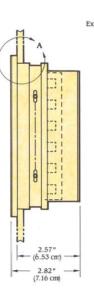
Cabinet Size: Any number of windows high and wide. (May exceed the numbers shown in the table below.)

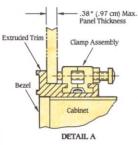
**Lamp Wattage:** Two 1-Watt lamps per window; 83 mA at 24 Vdc. **LED Wattage:** 400 mW power dissipation; 17 mA at 24 Vdc.

**Lenses:** Sandwich type lenses available.

Push-button Modules: Integral push-button modules offered as an option.







## To Order:

Specify lamp voltage (6, 24 or 28 Vac or Vdc), sandwich lens color, if required, and engraving details. If multipin connector option is required, the connector type and model number plus pin assignments should accompany order. Specify number and location of push buttons required.

	Window	s High	Windov	ws Wide		Windov	ws High	Windov	vs Wide
No. of Vindows	A-Overall inches (cm)	B-Cutout inches (cm)	C-Overall inches (cm)	D-Cutout inches (cm)	No. of Windows	A-Overall inches (cm)	B-Cutout inches (cm)	C-Overall inches (cm)	D-Cutout inches (cm)
2	3.17 (8.05)	2.60 (6.60)	4.73 (12.01)	4.16 (10.57)	10	10.23 (25.98)	9.66 (24.54)	18.02 (45.77)	17.45 (44.32)
3	4.05 (10.29)	3.49 (8.86)	6.39 (16.23)	5.84 (14.83)	11	11.11 (28.22)	10.54 (26.77)	19.68 (49.99)	19.11 (48.54)
4	4.93 (12.52)	4.37 (11.10)	8.05 (20.45)	7.48 (19.00)	12	11.99 (30.45)	11.42 (29.01)	21.34 (54.20)	20.77 (52.76)
5	5.82 (14.78)	5.25 (13.34)	9.71 (24.66)	9.16 (23.27)	13	12.87 (32.69)	12.30 (31.24)	23.00 (58.42)	22.43 (56.97)
6	6.68 (16.97)	6.13 (15.57)	11.37 (28.88)	10.81 (27.46)	14	13.75 (34.93)	13.19 (33.50)	24.66 (62.64)	24.09 (61.19)
7	7.58 (19.25)	7.01 (17.81)	13.02 (33.07)	12.47 (31.67)	15	14.64 (37.19)	14.07 (35.74)	26.32 (66.85)	25.76 (65.43)
8	8.46 (21.49)	7.89 (20.04)	14.69 (37.31)	14.13 (35.89)	16	15.52 (39.42)	14.95 (37.97)	27.98 (71.07)	27.42 (69.65)
9	9.34 (23.72)	8.78 (22.30)	16.35 (41.53)	15.79 (40.11)	)				, ,

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The Series LB-3500 Lamp Cabinets feature a 3 inch by 5 inch window size design to backboard applications where the operator is a considerable distance from the display. The lamp cabinets are factory assembled in any number of windows high or wide. Each window provides screw terminals for external connection or factory wiring to multipin connectors to interface via multiconductor cables to the lamp driver logic. The bezel and nameplate assembly is locked into the lamp module by spring loaded release for relamping from the front. The anodized aluminum bezel is available in black or a variety of colors, holding nameplates which allow up to three lines of 3/4 inch high engraved legends. Standard voltages are 24 Vdc/Vac, 48 Vdc/Vac, 125 Vdc or 115 Vac.

## **SPECIFICATIONS**

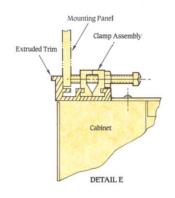
Standard Voltages: 24 Vdc/Vac, 48 Vdc/Vac, 125 Vdc, 115 Vac.

Cabinet Size: Any number of windows high and wide. (May exceed the numbers shown in the table below.)

Lamp Wattage: Three 2-Watt lamps per window. Bezel Colors: Black, Red, Blue, Green, White.

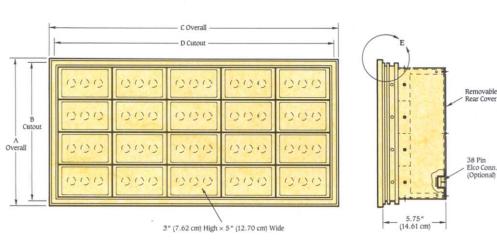
Lenses: Sandwich type lenses available.

Push-button Modules: Integral push-button modules offered as an option.



## To Order:

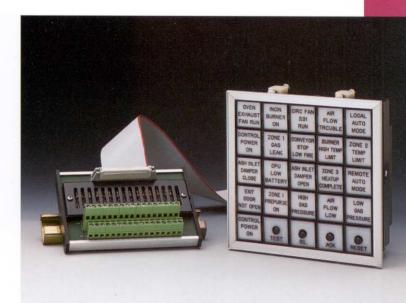
Specify bezel colors, sandwich lenses and rear mounted connectors. Specify number and location of push buttons required.

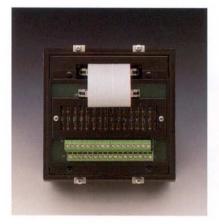


	Windov	ws High	Windov	vs Wide		Windo	ws High	Windo	ws Wide
No. of Windows	A-Overall inches (cm)	B-Cutout inches (cm)	C-Overall inches (cm)	D-Cutout inches (cm)	No. of Windows	A-Overall inches (cm)	B-Cutout inches (cm)	C-Overall inches (cm)	D-Cutout inches (cm)
1	4.50 (11.43)	3.87 (9.83)	6.50 (16.51)	5.87 (14.91)	5	16.50 (41.91)	15.87 (40.31)	26.50 (67.31)	25.87 (65.71)
2	7.50 (19.05)	6.87 (17.45)	11.50 (29.21)	10.87 (27.61)	6	19.50 (49.53)	18.87 (47.93)	31.50 (80.01)	30.87 (78.41)
3	10.50 (26.67)	9.87 (25.07)	16.50 (41.91)	15.87 (40.31)	7	22.50 (57.15)	21.87 (55.55)	36.50 (92.71)	35.87 (91.11)
4	13.50 (34.29)	12.87 (32.69)	21.50 (54.61)	20.87 (53.01)	8	25.50 (64.77)	24.87 (63.17)	41.50 (105.41)	40.87 (103.81)

# SERIES LB - 5 5 0 0

The Series LB-5500 compact high density LED Window Display Cabinet is factory assembled from cabinet modules which are 5 windows high by 5 windows wide (25 windows per module). Each window measures 1 inch square and may be custom engraved. The LED window indicators are available in red, orange, chartreuse or green. The cabinet modules are provided with rear mounted compression-type terminals or may be factory wired to multipin connectors. For extreme reduced depth applications, the rear interface module may be mounted remotely and connected to the cabinet via extended length ribbon cables (optional).







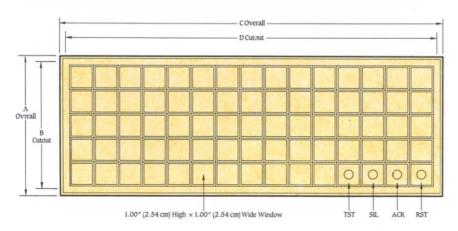
### **SPECIFICATIONS**

Standard Voltages: LEDs 24 Vdc.

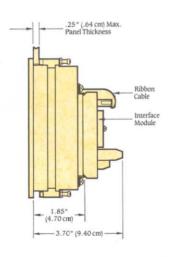
Current Requirement per Window: 22 mA @ 24 Vdc.

Cabinet Size: Any number of modules high and wide. Special cabinet sizes are also available. Consult factory.

Push-button Modules: Integral push-button modules offered as an option.



	Units	High	Units Wide			
No. of Units	A—Overall inches (cm)	B—Cutout inches (cm)	C—Overall inches (cm)	D-Cutout inches (cm)		
5	5.66 (14.38)	5.31 (14.49)	5.66 (14.38)	5.31 (14.49)		
10	10.66 (27.08)	10.31 (26.19)	10.66 (27.08)	10.31 (26.19)		
15			15.66 (39.78)	15.31 (38.89)		
20			20.66 (52.48)	20.31 (51.59)		



## To Order:

(	)-(	)-LB-5500 LED Display Cabinet
		Windows Wide
		Windows High

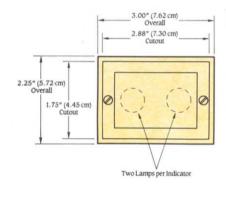
Specify number and location of push buttons required.

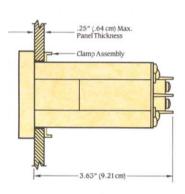
## NDICATORS

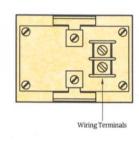


The Model X45-100 Indicator has an engravable nameplate size of 1.43 inches  $\times$  2.12 inches. Nameplates are available in amber, blue, green, red and white. The 115 Vac system is illuminated by two 3-Watt lamps. Other voltages are also available with the use of standard S6 lamps.

The Model R100 Pilot Lamp Indicator provides an excellent power-on indication or alarm status. The standard voltage is 115 Vac or 125 Vdc. Other voltages are also available with the use of standard S6 lamps. The R100 is available with red, green, blue, amber or white lenses and is supplied with gaskets to meet NEMA 12 standards on panel face.







Models LB1, LB2, LB3 and LB4 are single cabinet module indicators based on the popular LB series.

## NAMEPLATE SIZE

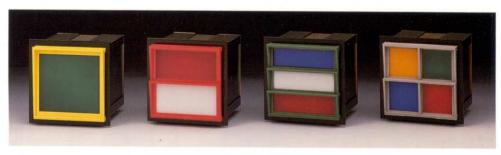
LB1-2.75" (6.99 cm) high × 3.00" (7.60 cm) wide. Two 6-Watt lamps per window.

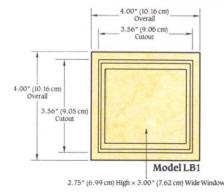
LB2-1.4" (3.56 cm) high  $\times$  3.00" (7.62 cm) wide. Two 3-Watt lamps per window.

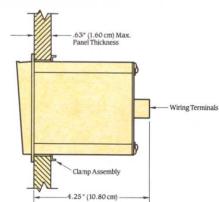
LB3-.86" (2.18 cm) high  $\times$  3.00" (7.62 cm) wide. Two 3-Watt lamps per window.

LB4-1.4" (3.56 cm) high  $\times$  1.4" (3.56 cm) wide. One 3-Watt lamp per window.

Note: 24, 48 and 120 Vac or Vdc lamps available.







The Models X18-100 and X18-200 Compact Indicators are full voltage and have dual lamp indicators. There is no need for resistors or transformers on 115 Vac service. Both models are suitable for mounting in groups either vertically or horizontally. The X18-200 utilizes two individually wired lenses in one unit. Lenses on both models are available in a choice of 5 colors. Lens surfaces may be engraved. Wire terminals are combination screw type/solderless tabs.

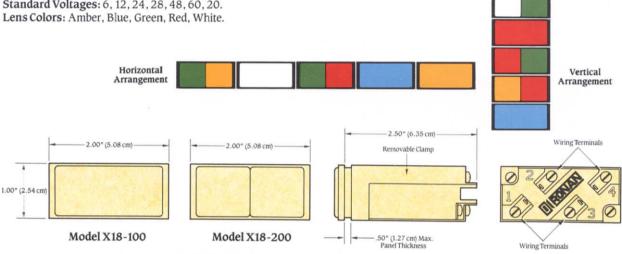
## **SPECIFICATIONS**

Panel Cutout: Single Mounting -. 91" (2.31 cm) High × 1.84" (4.69 cm) Wide. Multiple Mounting-Horizontally, add 2.02" (5.12 cm) per additional unit. Vertically, add 1.02" (2.58 cm) per additional unit.

Nameplate Size: Model X18-100 - .75" (1.90 cm) High × 1.56" (3.82 cm) Wide. Model X18-200-.75" (1.90 cm) High × .75" (1.90 cm) Wide.

Standard Voltages: 6, 12, 24, 28, 48, 60, 20.







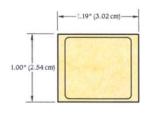
The Model X18-300 is a full voltage, single lamp indicator which needs no resistors or transformers on 115 Vac service. It is suitable for mounting in groups either vertically or horizontally. The lenses may be engraved. Wire terminals are combination screw type/solderless tabs.

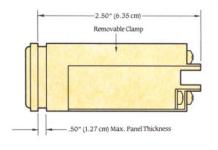
## **SPECIFICATIONS**

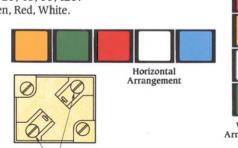
Panel Cutout: Single Mounting -. 91" (2.31 cm) High × .98" (2.48 cm) Wide. Multiple Mounting-Horizontally, add 1.19" (3.02 cm) per additional unit. Vertically, add 1.02" (2.58 cm) per additional unit. Nameplate Size: .75" (1.90 cm) High × .75" (1.90 cm) Wide.

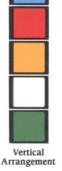
Wiring Terminals

Standard Voltages: 6, 12, 24, 28, 48, 60, 120. Lens Colors: Amber, Blue Green, Red, White.







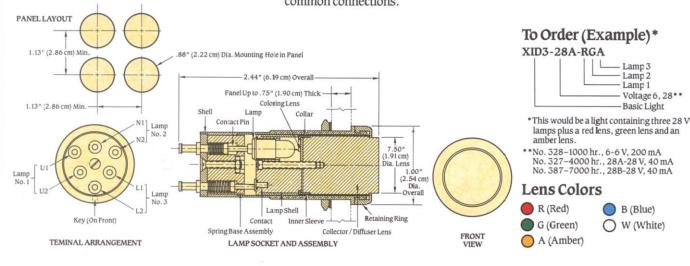




The Model XID3 Tri-Color Indicator Lights combine craftsmanship with convenience to be quickly and easily applied to your specific needs: production testing, process instrumentation, control panels, alarm indicators. graphic displays, etc.

They are small in size, measuring 2-7/16 inches long and 1 inch in diameter. The lens is engravable acrylic with excellent side vision up to 180°. Lamps are available in a choice of three of the five standard colors (for each lamp). The indicators are completely enclosed (dustproof), keyed for proper orientation and may be mounted on 1-1/8 inch centers. The terminals accept soldered, taper pin or screw connections. The XID3 carries CSA approval.

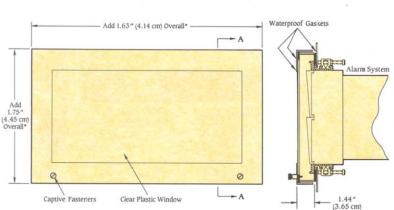
No tools are required for the easy front-of-panel replacement of lamps. Each lamp may be wired individually, thus eliminating the use of common connections.



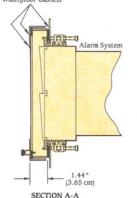
## EMA12 & 4 DOORS

NEMA 12 and 4 Doors, built especially for Series LB and Series LC Lamp Cabinets, are used to completely seal the fronts of cabinets against moisture or corrosive atmosphere.

Each door assembly houses a clear acrylic window which is sealed with neoprene gaskets. Extra gasketing is supplied for sealing between the door frame and the control panel.



\*When ordering NEMA doors, add this dimension to overall lamp cabinet dimensions



## To Order:

## 23X3-1022-NEMA 12 or 4 Door

- Windows Wide - Windows High

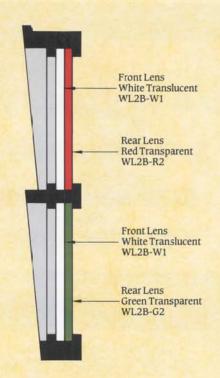
NEMA Doors are suitable for the following:

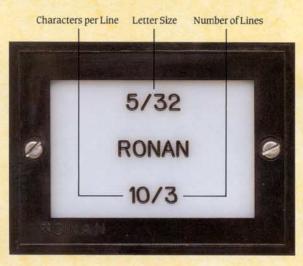
LB-1000 and LC-1000—2 Windows High×3 Windows Wide LB-2000 and LC-2000—4 Windows High×3 Windows Wide LB-3000 and LC-3000—6 Windows High×3 Windows Wide LB-4000 and LC-4000—4 Windows High×6 Windows Wide

Specify NEMA 12 or NEMA 4. NEMA doors are available on request for LB-1500, LB-2200, LB-2448 and LB-3500. The hinge on a standard door is provided on the longest side. Contact factory for special requirements.

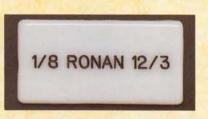
A complete line of sandwich-type lenses is available on most lamp cabinets.\* With these lenses, the need for color caps and their effect of reducing lamp life are eliminated. Sandwich lenses provide an even distribution of color behind the front lens. These type lenses are recommended when a color display behind the white lens is required to indicate alarm functions such as high or low, or to distinguish between alarm and shutdown functions. The Standard sandwich lens is available with white front lens and black engraved letters. Consult factory for special applications.

\*Not available on LB-2100 and LB2200 cabinets.





Model X45-100



Model X18-100



Model X18-300

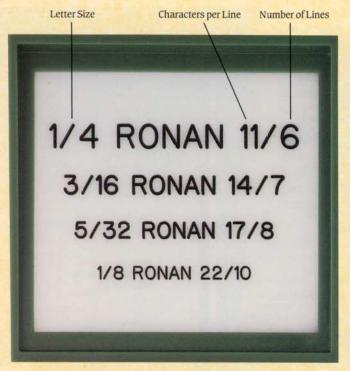


Model X18-200



Model XID3

## AMEPLATE ENGRAVING DETAILS



Lamp Cabinet LB-1000, LC-1000 Lens WL1; Bezel WB1-( )\*

1/4 RONAN 11/3 3/16 RONAN 14/3 5/32 RONAN 17/4 1/8 RONAN 22/5 1/4 RONAN 11/3 3/16 RONAN 14/3 5/32 RONAN 17/4 1/8 RONAN 22/5

> Lamp Cabinet LB-2000, LC-2000 Lens WL2; Bezel WB2-( )\*

1/4 RONAN 11/2 3/16 RONAN 14/2 5/32 RONAN 17/2 1/8 RONAN 22/3

1/4 5/32 RONAN RONAN 4/3 8/4 3/16 1/8 RONAN RONAN 6/3 10/5

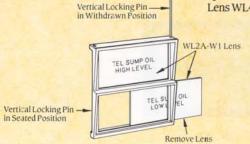
Lamp Cabinet LB-3000; LC-3000 Lens WL3; Bezel WB3-( )\*

## \*BEZEL COLORS

■ Red (2)

- Black (0) Yellow (4)
- Grey (8) Brown (1) ■White (9) Green (5) Blue (6)
- TO ORDER: (Example)

WB2-(0)=Black Bezel for LB-2000 WB1-(2)=Red Bezel for LC-1000



Lamp Cabinet LB-4000, LC-4000 Lens WL4; Bezel WB4-( )\*

## **NAMEPLATE** INSTALLATION

The window lenses are inserted into channeled grooves and retained with vertical locking pins as shown. This design permits the relocation of individual legends without re-engraving nameplates.



Lamp Cabinet LB-1500 Lens WL15-()\*-()\*\*; Bezel WB15-(Black Only)

> 5/32 RONAN 10/3 1/8 RONAN 12/3

Lamp Cabinet LB-2448
Lens WL24-( )\*-( )\*\*; Bezel WB24-( )\*\*\*

3/16 RONAN 11/3 5/32 RONAN 14/4 1/8 RONAN 17/5

> Lamp Cabinet LB-2100 Lens WL21-( )\*-( )\*\*; Bezel WB21-( )\*\*\*

1/8 RONAN 8/3

Lamp Cabinet LB-5500 Lens WL55-1/16-( )\*\*; Bezel WB55-(Black Only)

3/16 RONAN 11/4
5/32 RONAN 14/5
1/8 RONAN 17/6

Lamp Cabinet LB-2200 Lens WL22-( )\*-( )\*\*; Bezel WB22-( )\*\*\*



Lamp Cabinet LB-3500
Lens WL35-( )\*-( )\*\*; Bezel WB35-( )\*\*\*
Bezel is Anodized Aluminum.
Colors available are: Black, White, Red, Blue, Green

## \*NAMEPLATE SIZE

□ 1/8" Thick (A) □ 1/16" Thick (B)

## "LENS COLORS

■ Red (2) ■ Blue (6) □ Yellow (4) □ White (9)

■ Green (5) ■ Amber (10)

## ··· BEZEL COLORS

■Black (0) ■ Green (5)

■Brown (1) ■Blue (6) ■Red (2) ■Grey (8)

□Yellow (4) □White (9)

#### LAMP STYLES/RATINGS

Display Types LB-1000, LB-2000, LB-3000, LB-4000, LC-1000, LC-2000, LC-3000, LC-4000, LB1, LB2, LB3, LB4, LB2100, LB-2200, LB-2448 and LB-3500:

24 Vac or Vdc, Lamp No. 1829, Bayonet Base, 2 W. 24 Vac or Vdc, Lamp No. 1224K, Bayonet Base, 3 W. 48 Vac or Vdc, Lamp No. 1835, Bayonet Base, 2 W. 120 Vac, Lamp No. 6S6SC/120, Screw Base, 6 W. 125 Vdc, Lamp No. 6S6SC/145, Screw Base, 6 W.

#### Display Types X45 and R100:

120 Vdc, Lamp No. 3S6SC/120, Screw Base, 3 W. 125 Vdc, Lamp No. 3S6SC/130, Screw Base, 3 W.

#### Display Type X18:

6 Vac or Vdc, Lamp No. 6 MB, Bayonet Base, 1 W.
12 Vac or Vdc, Lamp No. 12 MB, Bayonet Base, 2 W.
24 Vac or Vdc, Lamp No. 28 MB, Bayonet Base, 1.5 W.
48 Vac or Vdc, Lamp No. 48 MB, Bayonet Base, 2.5 W.
60 Vac or Vdc, Lamp No. 60 MB, Bayonet Base, 3 W.
120 Vac or Vdc, Lamp No. 120 MB, Bayonet Base, 3 W.

## Display Types X1D3 and LB-1500

28 Vac or Vdc, Lamp No. 327, Miniature Base, 1 W. 28 Vac or Vdc, Lamp No. 387, Miniature Base, 1 W. 6 Vac or Vdc, Lamp No. 328, Miniature Base, 1.5 W.

## WARRANTY

Ronan warrants equipment of its own manufacture to be free from defects in material and workmanship, under normal conditions of use and service, and will replace any component found to be defective, on its return, transportation charges prepaid, within one year of its original purchase. This warranty carries no liability, either expressed or implied, beyond our obligations to replace the unit which carries the warranty.



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