

ZONE/CORRIDOR LIGHT and ARBITRATOR MONITOR



Features

- *User-Programmable*
- *Call, Reminder, and Presence Functions*
- *Large Surface for Zone Identification*
- *Easy Lamp Replacement*
- *Microprocessor Controlled*
- *Non-Conductive Surfaces*
- *Supervised Operation*

General Description

A Dukane Model 18A430 (beige trim ring) or 18B430 (gray trim ring) Zone/Corridor Light is normally located at corridor intersections, and between the master station and any rooms where the associated corridor lights cannot be readily seen by staff. It is also used as a corridor light located outside each room containing more than one patient, staff, or duty station.

The zone light contains the same number of lamps and indicates the same functions as the corridor lights it represents, including six types of normal/priority calls, three reminder levels to indicate that staff follow-up is required for a patient in that area or zone, and three presence levels to display the locations of various staff members. The zone light is programmed to respond to a group of user-selected room corridor lights, with the capability for overlap to allow more than one zone light to respond to the same room, and at the same time respond individually to other rooms. The selection of coverage can be changed at any time using the built-in mini-switches.

To maintain visual operation in the event of a central equipment malfunction, one Model 9A2325 Arbitrator Monitor must be provided and installed for each zone (ZIU) having one or more zone lights.



Engineers' Specifications

The Dukane Model [18A430] [18B430] Zone/Corridor Light with [beige] [gray] trim ring shall be wall- or ceiling-mounted at the intersection of all corridors, and in a straight line of sight with the master station to provide a duplicate indication of any room corridor lights that cannot be readily seen from the master station.

1. Four lamps shall be under a single dome lens with barriers dividing the lens into four separate sections colored white, red, amber, and green.

- a. All lamps shall have a standard bayonet base, shall operate on 12 volts, and shall be controlled by the microprocessors of the room stations assigned to the zone light. The color and illumination of each lamp shall be determined by the 4A23xx or 4A24xx series room station functions as follows:

Normal patient/staff call:	Steady white
Priority patient call:	Slowly flashing white (15 ppm)
Emergency patient call:	Fast flashing white (60 ppm)
Lavatory call:	Fast flashing red (60 ppm)
Emergency staff call:	Fast flashing green (60 ppm)
Code blue call:	Fast flashing amber (60 ppm)
Reminder:	Slowly flashing red (15 ppm)
Reminder:	Slowly flashing amber (15 ppm)
Reminder:	Slowly flashing green (15 ppm)
Presence:	Steady red
Presence:	Steady amber
Presence:	Steady green
Station aux call: (programmable)	Fast strobe flashing red, amber, and green consecutively (60 ppm)
Bed aux 1 call: (programmable)	Fast flashing white (60 ppm)
Bed aux 2 call: (programmable)	Slow flashing white (15 ppm)
Bed cord pull out:	Slowly flashing white (15 ppm)

- b. The shatterproof, heat-resistant, polymer plastic dome lens, measuring 3-9/32 inches (8.3 cm) by 2-5/8 inches (6.7 cm), shall snap off and on for easy lamp replacement.

- c. The lamp sockets shall be attached to a two-gang chassis constructed of non-conductive, high impact, flame-retardant ABS Cycolac® plastic, rigidly reinforced to withstand breakage if attached to improperly installed backboxes. All surfaces shall be protected against wear due to continual usage and cleaning solutions. A 4-1/2 inch (11.4 cm) square snap-on trimplate, of the same material as the chassis, shall be provided to cover any exposed mounting hardware.

2. Two miniature switches shall be provided as part of the PCB for setting the range of room addresses/room numbers to which the zone light will respond. One switch shall set the start value L (1–32), and the other shall set the end value H (1–32). The range shall be (L–H), inclusive. It shall be possible to overlap the room coverage of any number of zone lights for common response or for individual response to their respective rooms.

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3. All external connections shall be made by prewired, color-coded, plug-in connectors for easy installation, replacement, and maintenance.
 4. All zone lights shall be monitored by a Dukane Model 9A2325 Arbitrator Monitor. If the central equipment malfunctions, all zone lights associated with multiple-station rooms or with corridor intersections shall continue to function, duplicating the individual room corridor lights within each respective zone.
 - a. One arbitrator monitor shall be provided for each Zone Interface Unit (ZIU) in the central equipment cabinet that is connected to one or more 18A/B430 zone lights.
 - b. Each arbitrator monitor shall mount in a deep two-gang backbox, optionally covered by a plain stainless steel faceplate (locally supplied), located and installed between the central equipment cabinet and the first station in each zone on the data bus.
 - c. Each arbitrator monitor shall be powered from the 12Vdc room station power supply providing power to the stations within that monitor's zone.
 5. The Dukane Model 18A430 and 18B430 Zone/Corridor Light and the Dukane Model 9A2325 Arbitrator Monitor are Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

**(Engineers'
Specifications)**

Model 18A/B430 only

Model 200-1331

Plug-In Connector, part of kit 438-931 (12 in kit, 1 required)

Model 200-1334

Plug-In Connector, part of kit 438-934 (12 in kit, 1 required)

Model 18A/B430 and 9A2325

RACO #696

Two-gang backbox, 3-3/4" (9.5 cm) high, 3-3/8" (8.6 cm) wide, 3-1/2" (8.9 cm) deep

OR

RACO #265 with RACO #881–886 Series Cover

Box, 4-11/16" (11.9 cm) square and 2-1/8" (5.4 cm) deep, with square-cut two-device cover

Note:

Do not use gangable backboxes of any kind.

ProCare 6000 is a registered trademark of Dukane Communication Systems.

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**Associated
Equipment**

Printed in USA