



Medium Voltage Indicator

Product Data Sheet

Catalog Number

R-1VH003 / R-1VL003

(part number contains 3 units)

Power Warning Alert



Electrical safety demands the answer to one question: *Is there voltage?* The R-1VH / R-1VL Medium Voltage Indicator mounts to a medium voltage bus and flashes when voltage is present on the bus. This product is designed to provide sufficient illumination to be easily seen through a window on a medium voltage starter, transformers, switchgear and other power distribution equipment.



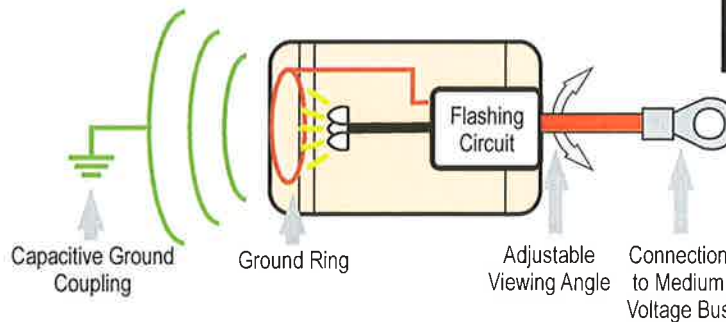
The R-1VH / R-1VL is built for long life and reliability with solid state LED's and flame rated material. Because the R-1VH / R-1VL capacitively couples to ground, they provide high surge immunity and have electrical-installation integrity.



Rated 2KV to 43KV. Flash Rate Optimized for Voltage Range:	
R-1VL003 (contains 3 units)	2V to 15KV (Low)
R-1VH003 (contains 3 units)	15KV to 43KV (High)

Features:

- ▶ Qty. (3) Long Life LED's per Unit
- ▶ 2KV to 43KV Operating Range
- ▶ A 1/2" bolt hole mounting
- ▶ Viewing Angle Adjustability



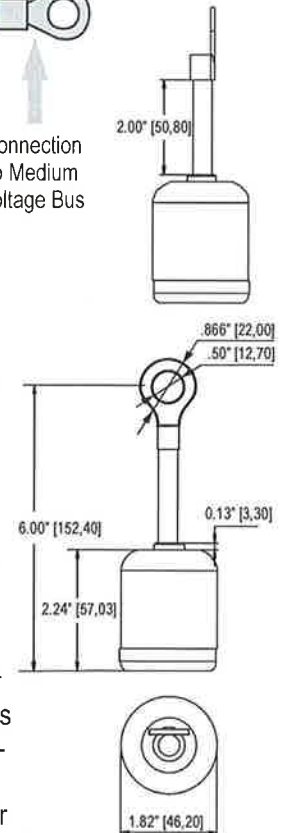
Specifications

Apply Voltage AC (rms)	2~43 KV
Max Voltage AC (rms)	43KV
LED Color	Red
Power consumption	<0.01 W
Approx. Weight	0.6 lbs
Operating temperature	-20~80 C°

Capacitive coupling between the R-1VH / R-1VL and earth ground provides a means of completing the flashing circuit without a hardwired ground connection. This allows for enough energy to flash the LEDs.

The amount of energy transferred to a medium voltage indicator through capacitive coupling varies, and therefore determines its flash rate and intensity. The key factors include the line voltage, the distance between the adjoining phases, and the size, and distance of the ground plane (enclosure or other). For this reason, flash rates are not be stated in this datasheet.

Alerting workers to voltage requires the voltage indicator to flash at least once every 3 seconds. A slower flash rate is not an effective warning for workers. Because of this, the R-1VH flash rate is optimized for applications on voltages between 15KV and 43KV. Likewise, the R-1VL works better between 2KV and 15KV.



Disclaimer: It is recommended that an installed R-1VH or R-1VL flashes more than once every (3) seconds (.33 flashes/sec.). If the flash rate is less than .33 flashes/second, do not use this product in this application. Voltage indicators are a supplement, not a substitute, for establishing electrically safe work conditions when working on potentially live electrical conductors as per NFPA 70E 120.1(1) to (6). Employers must also provide written LOTO procedures and the corresponding training that properly incorporates voltage detectors into their safety programs [NFPA 70E 120.2(C)(2) and 110.6(D)(4)(e)].



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