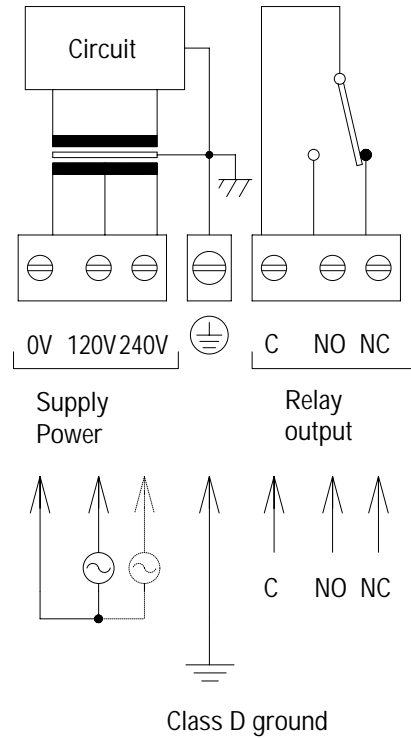


# MODEL VL15N/F-U



## Wiring



## Features

- Dust explosion proof protection, Class II Group E, F and G (File No. E114303)
- Adjustable detection time delay
- High or Low fail-safe mode

## General Description

The VL15-U is ideal for detecting fine powders, ordinary powder and granular materials and pellets. This "U" version is certified for use in dust explosion hazardous locations classified Class II, Group E, F and G by Underwriters Laboratories Inc.

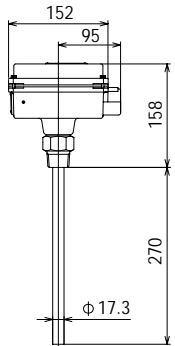
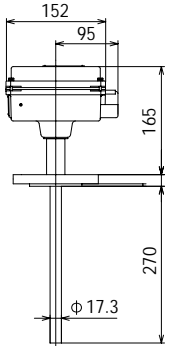
## Ordering Information

VL15N-U	UL approval with Plug mounting
VL15F-U	UL approval with Flange mounting
	0 Flat-face flange
	1 Raised-face flange
	4 Plug mounting
	J JIS flange
	A ANSI flange
	D DIN flange
	R R plug
	T NPT plug
	S 304 stainless steel
	S6 316 stainless steel
	A 90-132/180-264V AC 50/60Hz
	T 2-NPT3/4

VL15N-U 4 R S A T = VL15N-U-4RSAT

\* The mounting size should be specified when you order.

## Specifications

Model		VL15NU	VL15FU
Description		For use in Hazardous Locations	
Drawing			
Mounting	Standard	R1	JIS5K50A
	Option	R, NPT 3/4 to 2	from 25A, JIS, ANSI, DIN
Supply Power		120V AC 50/60Hz (90 to 132V AC allowable voltage) 240V AC 50/60Hz (180 to 264V AC allowable voltage)	
Power Consumption		Approx. 5VA Max.	
Relay Output		1 SPDT, 240V 3A AC, 30V 3A DC (Resistive) 240V AC 1/10 HP (Motor load)*1 C-NO: Normally Open contact C-NC: Normally Closed contact	
Detection Time Delay		Approx. 0.5 to 10 seconds for covered Approx. 5 seconds for free	
Operating Temperature	Housing	-20°C to 60°C	
	Vibration rod	-20°C to 100°C	
Maximum Pressure		2MPa / 20bar	
Maximum Humidity		95% RH	
Sensitivity		Bulk density of 0.2g/cm <sup>3</sup> Min.	
Vibration Frequency		Approx. 400Hz	
Material	Housing	ADC12	
	Vibration rod*2	304SS	
Cable Entry		3/4-14NPT × 2	
Protection		IP65	
Certification		File No. 114303, Class II, Groups E, F and G	
Fail safe		High or Low by switch	
Indication		Green LED for Power status Red LED for Relay status Yellow LED for Detection status	

\*1The notion is followed by the UL regulation. 1 HP (horse power)=745.6999W

\*2Other materials are available.

## Technical Notes

1. Since the VL15-U is approved as the complete assembly, any modification, disassembly, or replacement of parts on site is impossible. Return the VL to NOHKEN for repair and/or replacement.
2. For top mounting in high silo in a hazardous area, use the VL522N or VL522F approved d2G4 by T.I.I.S., Japan.