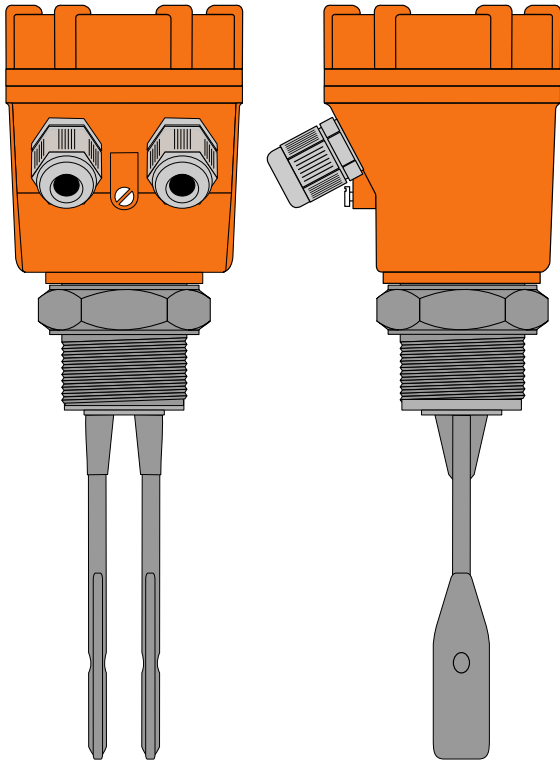


# LFV: Vibrating Fork Level Limit Switch



## Instruction Manual



### Introduction

- controls & indicators
- connection terminals
- configuration switches

### Delay Setting

- controls & indicators
- dry (uncovered) delay setting
- wet (covered) delay setting

### Failsafe Installation

- failsafe selection
- electrical connections (AC)
- electrical connections (DC)

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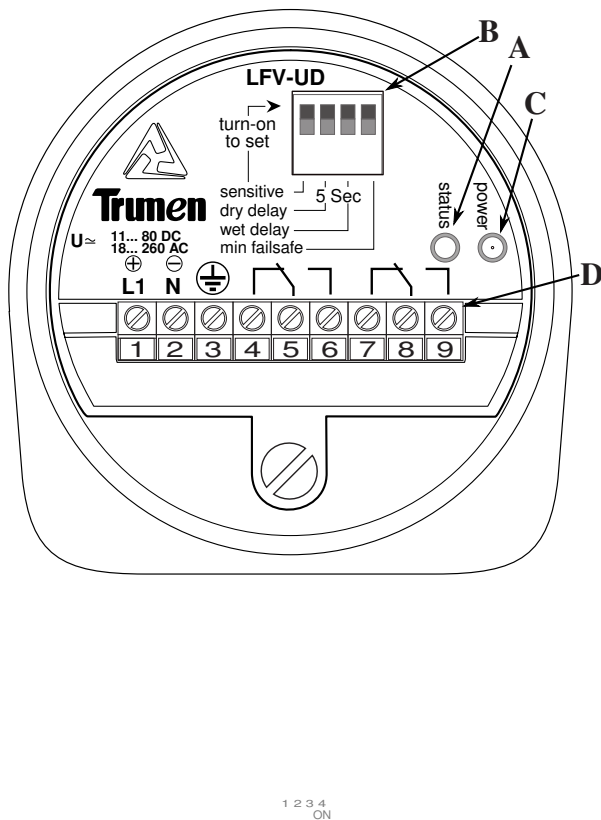
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# Introduction



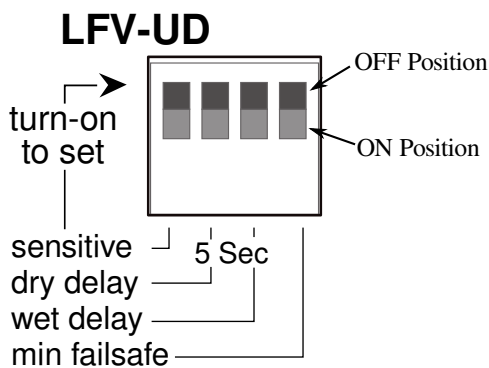
## controls & indicators

- A Alarm Indicating LED
- B Configuration Switches
- C Power ON LED Indicator
- D Connecting Terminals

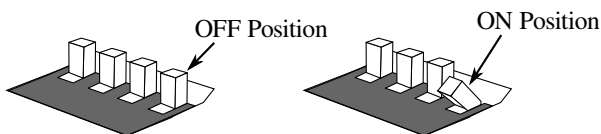
## connection terminals

- 1 + of DC or Live of AC Supply input
  - 2 - of DC or Neutral of AC Supply input
- Supply:  
18 to 80VDC or 18 to 260VAC 50/60Hz
- 3 Earth terminal for safety
  - 4 Normally connected terminal of contact 1
  - 5 Common terminal of contact 1
  - 6 Normally open terminal of contact 1
  - 7 Normally connected terminal of contact 2
  - 8 Common terminal of contact 2
  - 9 Normally open terminal of contact 2

## configuration switches



- 1 sensitivity control  
sensitive setting for low density fluids  
(turn-on for fluffy/low density fluids)  
(keep turned-off for normal fluids)
- 2 “dry” (or uncovered) delay (5 second delay)  
(turn-on when 5 second more time is needed for  
fork out of fluid confirmation)
- 3 “wet” (or covered) delay (5 second delay)  
(turn-on when 5 second more time is needed for  
fork dipped in the fluid confirmation)
- 4 minimum failsafe select  
Failsafe means alarm is same as power failure.  
Failsafe=high (maximum) for overflow detection  
Failsafe=low (minimum) for underflow detection



Example of Switch in On and Off Positions

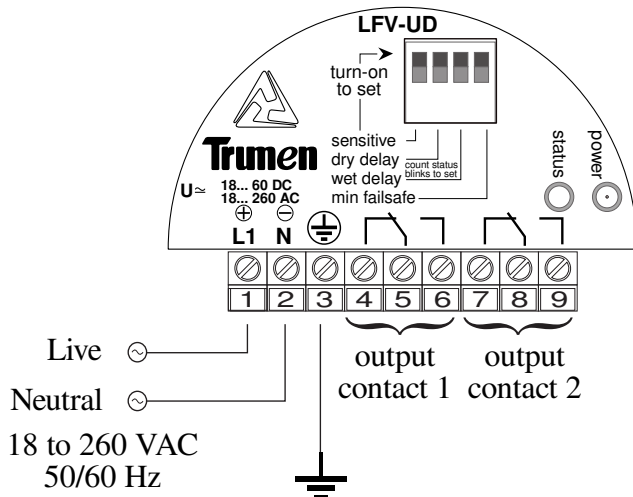
# Failsafe Installation

## failsafe selection

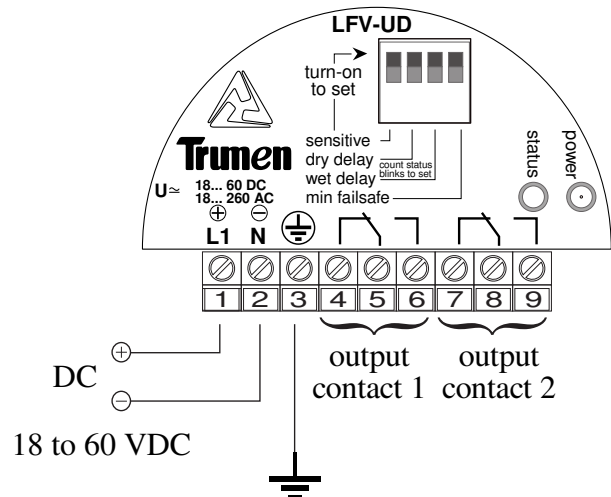
Failsafe defines that the alarm and power failure / device failure conditions are same to the external system. Failsafe operation is best understood with the type of installation.

Material & installation	failsafe setting	alarm LED	Alarm	DPDT relay contacts
		Off	Normal	
		On	Alarm	
		On	Alarm	
		Off	Normal	

## electrical connections (AC)



## electrical connections (DC)



Proper connection to supply earth terminal (3) and the external earth terminal (screw) is must.