

# KEW SAFE LINE SERIES

## PRODUCT 2.1: - *VOLTAGE MONITOR RELAY*



## DESCRIPTION

The **KEW Voltage Monitor Relay** (SFL-VR3 for 3PH & SFL-VR1 for 1PH) is a compact, programmable device for monitoring voltage faults like **over/under voltage**, **phase loss**, and **voltage unbalance**. It offers **true RMS measurement**, **auto/manual fault display**, and **LED indicators** for easy fault identification. Optional **4-digit LED display**, **RS-485 & MODBUS**, and **alarm relay output** enhance system integration. Designed with **SMPS-based auxiliary supply** and wide voltage range (150–300V AC/DC), it ensures stable performance. All parameters are **user-configurable** via front keys. Suitable for **motor protection and panel integration** in industrial and commercial setups. Accurate, efficient, and easy to install.

## FEATURES OF Voltage Monitor Relay

Meter Type	Single Phase & Three Phase KEW Voltage Monitor Relay
Function	Monitors and protects from Over/Under Voltage, Phase Loss, Imbalance
Smart Display & Navigation	4-digit bright LED display with Auto Scroll, Error Code Indication
Accuracy	±0.5% FS ±1 digit (True RMS Measurement)
Power Supply	SMPS, Transformer-based: 150–300V AC, 45–270V AC/DC, 19–60V AC/DC



# SPECIFICATION OF Voltage Monitor Relay

## Electrical Characteristics: -

<b>Meter Type</b>	Voltage Monitoring Relay (Single Phase / Three Phase)
<b>Auxiliary Supply Voltage</b>	150–300V AC, 45–270V AC/DC, 19–60V AC/DC
<b>RMS Voltage</b>	20–600V (RMS)
<b>VA Burden</b>	Auxiliary Supply: <2.5 VA Voltage Input: <0.2 VA/Phase
<b>Relay Contact</b>	1 NO (Potential-Free), rated 2A @ 250V AC
<b>Measurement Types</b>	Phase-to-Neutral (1PH), Phase-to-Phase (3PH)

## Environmental Characteristics: -

<b>Operating Temperature</b>	0°C to 50°C
<b>Storage Temperature</b>	-10°C to 60°C

## Mechanical Characteristics: -

<b>Mounting Type</b>	Panel Mount
<b>Panel Dimensions</b>	SFL-VR3: 96 × 96 mm SFL-VR1: 105 × 40 mm

## Display Characteristics

<b>Display Type</b>	4-digit, 7-segment LED (1 Row), Auto Scroll
<b>Indications</b>	Error Code Display, Fault LED Indicators

## APPLICATIONS OF Voltage Monitor Relay

### Motor Control Panels



### Building Management Systems (BMS)



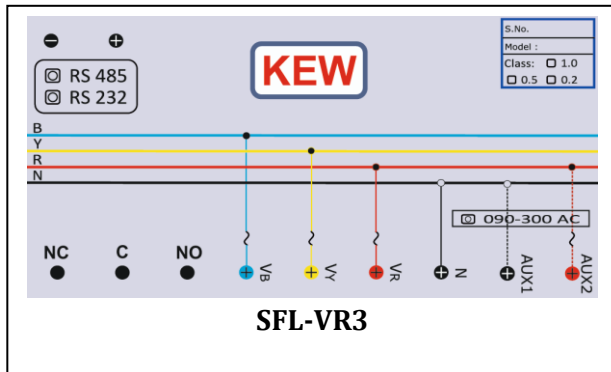
### OEM Electrical Panels



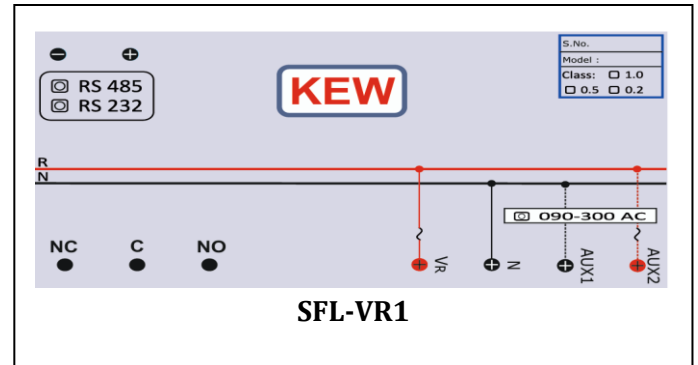
### Commercial Sub-Metering / Retail Malls





## Terminal Connection



## Terminal Connection



## Ordering information:

MODEL	Display & Protection	ACCURACY CLASS	AUX SUPPLY
<b>SFL-VR3 (3PHASE)</b> 	VOLTAGE (L-L & LN) UNDER-OVER SPP	1.0 0.5	150–300V AC (TX Supply) 45–270V AC/DC 19–60V AC/DC
<b>SFL-VR1 (1PHASE)</b> 	VOLTAGE (L-N) UNDER-OVER	1.0 0.5	150–300V AC (TX Supply) 45–270V AC/DC 19–60V AC/DC
<b>SFL-VR (HVLV)</b>	SELF POWERED UNDER-OVER	1.0	150–270V SELF POWERED

\*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES