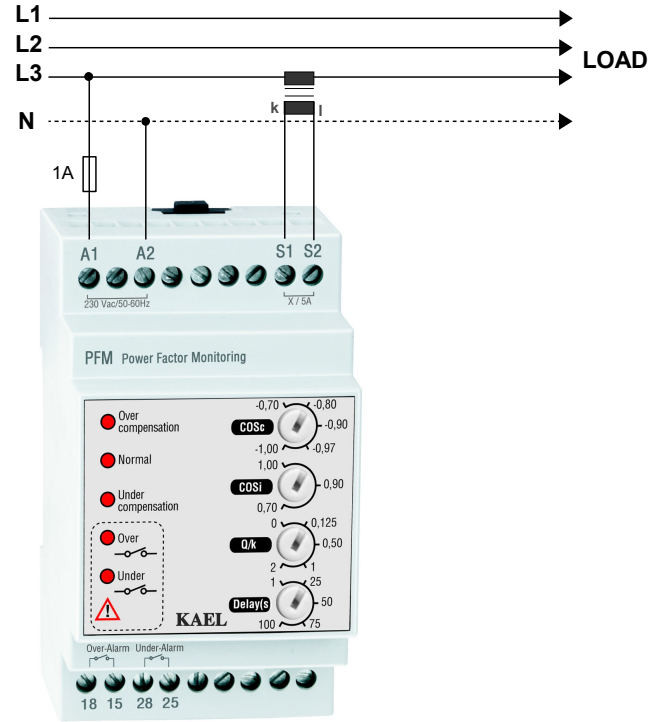


PFM

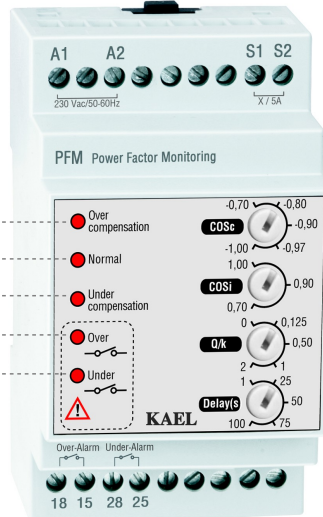
Power Factor Monitoring Device

- ▶ $\cos\phi_c$; for over compensation alarm(-0,70... -1,00)
- ▶ $\cos\phi_i$; for under compensation alarm(+0,70...+1,00)
- ▶ Q/k Adjustment (0 ... 2)
- ▶ Delay Time - Delay(1 – 100 s)

CONNECTION:



- Over Compensation
- Normal
- Under Compensation
- Alarm for Over Compensation
- Alarm for Under Compensation



GENERAL:

If compensation of system exceeds the adjusted values of the over or under compensation alarm values, device switches on its contact for alarm. Does not occupy a place within the panel, it is economical and it is very easy to use.

ADJUSTMENTS:

Q/k : (0 2)

Ratio of Reactive power of the system to the current transformer ratio. Where,
Q: Reactive power of the system.
k : Current transformer ratio.

Example:

If Q: 1 KVAR
and k: 50/5 A
In this case;
 $k=50/5 = 10$ and $Q/k= 1/10= 0,1$
Adjust Q/k to 0,1

Cos-c : (-0,70 ... -1,00) is $\cos\phi$ value for over compensation.

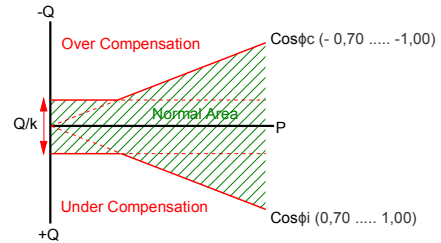
If the measured $\cos\phi$ value exceeds the Cos-c value after the time delay , over compensation relay is energized .
the relay's contact stays energized,until the $\cos\phi$ value returns to normal area.

Cos-i : (+0,70 ... +1,00) is $\cos\phi$ value for under compensation.

If the measured $\cos\phi$ value exceeds the Cos-i value after the time delay , under compensation relay is energized .
the relay's contact stays energized,until the $\cos\phi$ value returns to normal area.

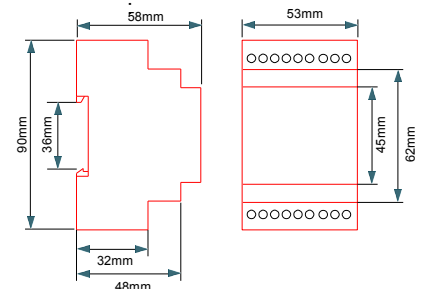
Delay : (1 – 100 sn) Delay time

Operating logic



TECHNICAL INFORMATION:

Rated Voltage (Un)	: 230Vac (L1-N)
Operating Range	: (0,8-1,1) x Un
Operating Frequency	: 50 / 60 Hz
Supply Power Consumption	: < 4VA
Current Measurement Range	: 0,05 - 6 A
Current Transformer Ratio	: X / 5 Amper
Inputs Power Consumption	: <1VA
Contact Current	: Max. 3A / 240Vac
Device Protection Class	: IP 20
Connector Protection Class	: IP 00
Temperature	: - 5 °C + 50 °C
Connection Type	: To connection rail in electrical panel
Dimension	



Installation Instruction :

- Read the user instructions and caution before installation.
- Be sure that the panel you are installing in when power off.
- The device designed to be installed to the rail where the installation tap into the panel,
- Do not under case open the front of device.
- You should open the Terminals at the back side of the device after you must be sure that there is no power in the panel.
Connect the device as shown in the connection scheme.
- Do not use current transformer less than nominal current
- Please use fast type fuse to protect the device's power supply input
- Clean the device using dry dust cloth after turned off device.
- Read and follow the instruction on this manual and attached label.

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