

VARIMETER IMD

Insulation Monitor LK 5894

DOLD 

With the new **Insulation Monitor LK 5894** from the **VARIMETER IMD** family, DOLD offers a convincing solution for insulation monitoring of non-earthed AC, AC/DC, and DC power supplies (IT systems). The LK 5894 increases the availability of plants and is used for preventive maintenance and repair. Faults are detected even during operation and costly plant standstills are prevented. The insulation monitor was specially designed for use in modern power supplies that often include rectifiers, converters, thyristor controllers or directly connected DC components. EMC interference suppression measures with its leakage capacitances against earth play an important role in this matter. DOLD's insulation monitor meets the criteria.

Besides a faster fault localisation by selective earth fault detection and optimised measuring times, the insulation monitor can deal with system leakage capacitances of up to 1000 μF . It is also universally applicable in non-earthed DC/AC and mixed networks from 0V to 690 V nominal voltage. The maximum voltage can be up to DC 1000 V and AC 760 V without additional adaption device.

The device can be adjusted quickly and easily with its latching rotary switches. The measuring circuit monitoring for broken wire detection and the LED chain for indication of the current insulation resistance are further convincing features of the LK 5894.

Advantages and customer benefit

- ▶ Preventive fire and plant protection
- ▶ Early insulation fault detection during operation
- ▶ No additional adaption device needed
- ▶ Fast error localisation via selective earth fault detection to L+ and L-
- ▶ Suitable for universal application in non-earthed DC/AC and mixed networks
- ▶ Suitable for system leakage capacitances up to 1000 μF
- ▶ Simple adjustment via latching rotary switches
- ▶ Reliable monitoring, also in voltage-free network
- ▶ Measuring circuit monitoring of wire breakage

Our experience. Your safety.

Insulation Monitor LK 5894

Technical features

- ▶ Insulation monitoring in accordance with IEC/EN 61557-8
- ▶ Detection of symmetrical and asymmetrical insulation faults
- ▶ 2 changeover contacts
- ▶ Max. voltage up to DC 1000 V and AC 760 V
- ▶ Adjustment range prewarning threshold: 20 k Ω ... 2 M Ω
- ▶ Adjustment range alarm threshold: 1 k Ω ... 250 k Ω
- ▶ Open circuit or closed circuit principle selectable for output relay
- ▶ Adjustment of maximum system leakage capacitance for reduction of response time
- ▶ Simple, clearly structured setting of the device with screw driver
- ▶ LED chain for indication of the current insulation resistance
- ▶ Display „measurement circuit active“
- ▶ Automated and manual device self test
- ▶ Construction width 90 mm



Insulation monitor
LK 5894

Order information

Standard type: LK 5894.12/010 DC 20 ... 30 V
Item number: 0065331

Fields of application

- ▶ DC / AC and mixed IT networks
- ▶ UPS systems
- ▶ Networks with frequency converters
- ▶ Battery networks
- ▶ DC driven networks
- ▶ Hybrid cars or battery operated cars

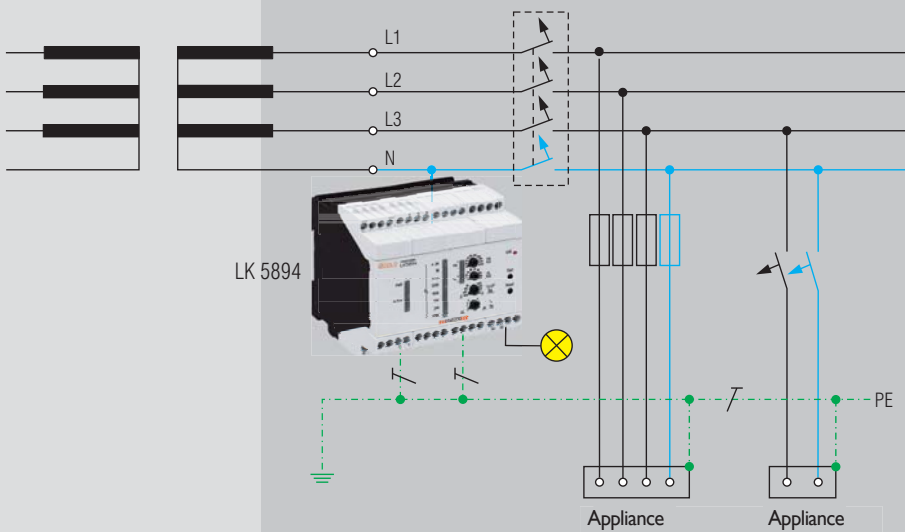
Accessories



Buzzer
RK 8832

Application

The application example illustrates an insulation monitor with current indication of the insulation resistance in an IT system. When a first insulation fault occurs, a warning or alarm is displayed. When a second insulation fault occurs, fuses or circuit breakers will shut down the plant.



Principle of a non-earthed IT system with insulation monitoring

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Further information

LK 5894

Start

Do you have **leakage capacities up to 3000 μ F**, do you need a **second additional measuring circle or analogue output** ?

LK 5896

www.dold.com

DOLD

E. DOLD & SÖHNE KG
P.O. Box 1251 • 78114 Furtwangen • Germany
Phone +49 7723 6540 • Fax +49 7723 654356
dold-relays@dold.com • www.dold.com

FE83 / 0177 co