



INTERACTIVE APPLICATION & PRODUCT GUIDE



RENEWABLE ENERGIES INDUSTRY

Click to explore our INTERACTIVE...
**RENEWABLE ENERGIES
FACTORY**

Renewable Energies Industry Brands We Support

EV CHARGING

BESS (BATTERY ENERGY STORAGE SYSTEM)

SOLAR ENERGY

WIND TURBINE

MEGA CHARGING STATION (1500 VDC IMD)

ELECTRICAL POWER TRANSMISSION CENTER

DATA CENTER

BACKUP GENERATOR

*** [CLICK A PRODUCT FOR
OPTIONS & ADDITIONAL INFO.](#)

Wind Turbine
Energy



Battery Energy Storage (BESS)



Mega Charging Station 1500 VDC IMD



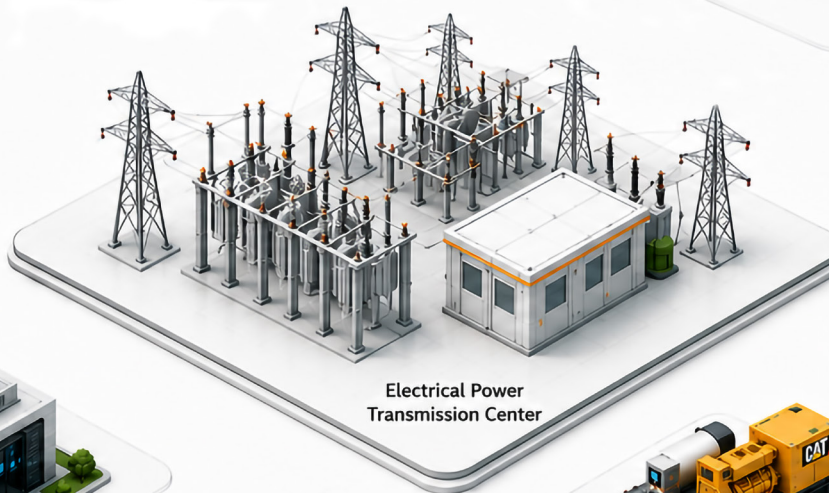
EV Charging



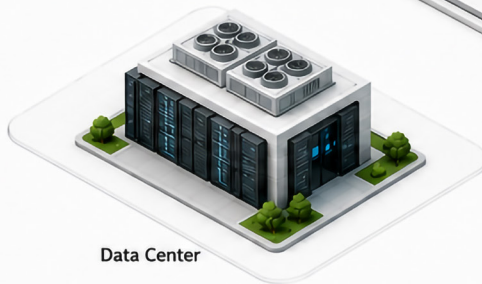
Solar Energy



Electrical Power
Transmission Center



Data Center



Backup Generator



Smart Energy Management
System (EMS)



Smart Energy Management System (EMS)

[EV Charging Products](#)

[BESS \(Battery Energy
Storage System\) Products](#)

[Solar Energy Products](#)

[Wind Turbine Products](#)

[Mega Charging Station
1500 VDC IMD Products](#)

[Electrical Power
Transmission Center
Products](#)

[Data Center Products](#)

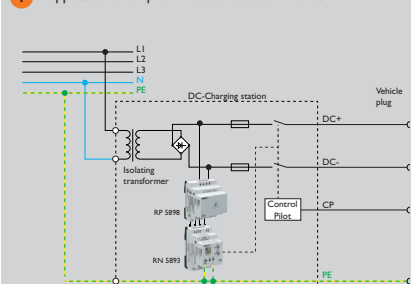
[Backup Generator
Products](#)



RN 5893

The RN 5893 insulation monitor from the VARIMETER IMD family is used specifically in DC charging stations in accordance with UL 2231 and, in conjunction with the RP 5898 coupling device, monitors the charging process from the charging station to the vehicle. Characterized by a nominal voltage of up to DC 1000 V with coupling device and the detection of both asymmetrical and symmetrical insulation faults. It also has a Modbus RTU interface. All measured values, device statuses and parameters can be read out, set and parameterized via Modbus.

+ Application example RN 5893 insulation monitor



+ Coupling device for higher rated voltages



RP 5898

+ Additional Features



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>> MORE INFORMATION

VARIMETER IMD



Insulation monitor RN 5893

- Suitable for DC charging stations for electric vehicles acc. to UL 2231
- With Modbus RTU interface
- Nominal voltage of up to DC 1000 V
- Integrated voltage measurement

More info
ProductFinder

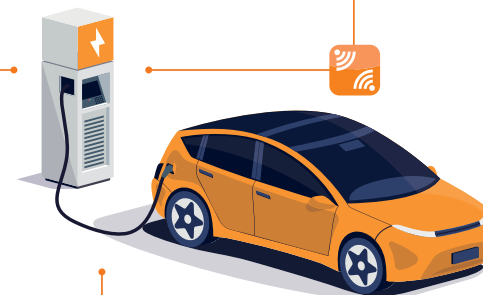


SAFEMASTER W



Radio controlled safety system UH 6900

- Safety-relevant, bidirectional transmission of emergency stop signals
- Wireless connection of two zones up to 800 m
- Ideal for retrofitting



VARIMETER



DC voltage relay UG 9831

- Monitoring of DC voltages networks
- Wide measuring range DC 20 - 1000 V
- Min., max. value or window monitoring
- Optionally also available with Modbus RTU interface

SAFEMASTER



Emergency stop module UF 6925

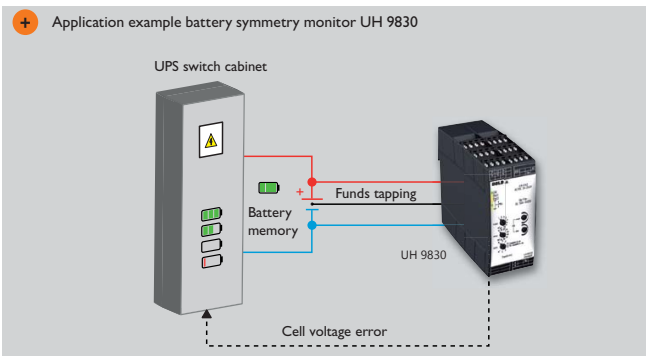
- Fast wiring due to integrated push-in connection technology on the front
- Compact design measuring just 17.5 mm
- For safety applications up to Cat. 4 / PL e resp. SIL 3, UL-certified

RENEWABLE ENERGY INDUSTRY BESS (Battery Energy Storage System) Products



UH 9830

The UH 9830 battery symmetry monitor from the VARIMETER series monitors battery energy storage systems (BESS) that are used in particular in the field of emergency power supply or power generation. The device monitors battery symmetry using a centre tap. By dividing the system into two strings with the same number of battery blocks, voltage differences and thus the failure of battery cells or a single block are detected and reported as a fault.



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VARIMETER



Battery symmetry monitor UH 9830

- Monitoring of battery and UPS systems for internal short circuits, etc.
- For battery voltages up to DC 1000 V
- Also available without auxiliary voltage

More info
ProductFinder



VARIMETER PRO



Energy meter RL 9405

- Can be used without separate auxiliary voltage
- Wide operating voltage range
- Up to 50 measured values can be recorded
- Space-saving width of only 35 mm



VARIMETER IMD



Insulation monitor RN 5897/010

- Early detection of symmetrical and asymmetrical insulation faults in unearthed networks (IT systems)
- Can be used in AC-, DC- and AC/DC networks



VARIMETER RCM



Residual Current Monitor RN 5883

- Early detection of insulation faults in earthed networks (TN-/TT systems)
- Preventive fire and system protection



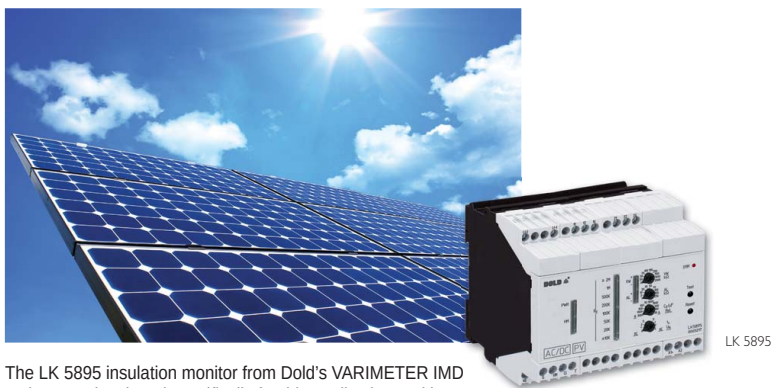
ISC MACHINE SAFETY & CONTROL PRODUCTS CATALOG

INDUSTRIAL SAFETY STANDARDS

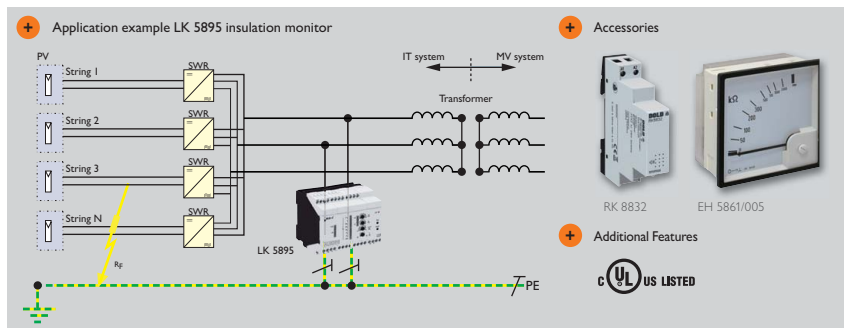
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The LK 5895 insulation monitor from Dold's VARIMETER IMD series was developed specifically for this application and is suitable for continuous insulation monitoring in DC, AC and combined AC/DC networks with voltages up to 1000 V. In PV systems, the LK 5895 enables early detection of insulation faults, such as earth faults or damaged cables, before safety-related failures or fire risks occur. The device continuously measures the insulation resistance between active conductors and earth and works reliably even with high network leakage capacities of up to 3000 μ F.



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VARIMETER IMD



Insulation monitor LK 5895

- Reliable monitoring even when the mains power is off
- Universal application in AC-, DC-, AC/DC-networks
- Leakage capacitances up to 3000 μ F

More info
ProductFinder



VARIMETER PRO



Energy meter, RL 9405

- Can be used without a separate auxiliary power supply
- Wide operating voltage range
- Up to 50 measured values can be recorded
- Space-saving width of only 35 mm

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VARIMETER



Trip circuit monitor UG 5124

- Monitoring of circuit breakers
- Preventive maintenance
- On delay- / release delay each adjustable

VARIMETER



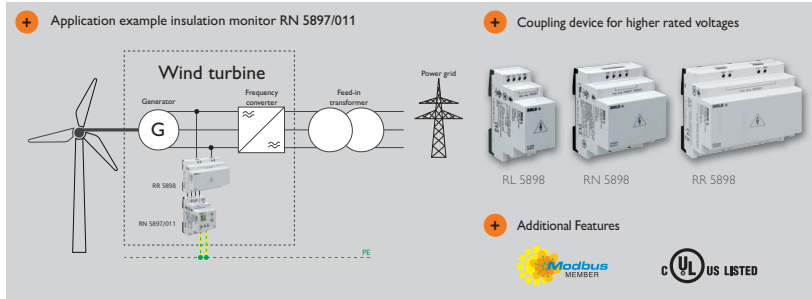
DC voltage relay UG 9831

- Monitoring of DC voltage networks
- Wide measuring range DC 20 - 1000 V
- Min., max. value or window monitoring
- Optionally also available with Modbus RTU interface



RN 5897/011

Insulation monitors from Dold's VARIMETER IMD series monitor the insulation resistance in ungrounded systems (IT networks). The RN 5897/011 insulation monitor has two signal relays that can trigger a warning and alarm, for example to a higher-level control system. This prevents malfunctions due to insulation faults and the associated costly operational interruptions, personal injury and property damage.



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VARIMETER IMD



Insulation monitor RN 5897/011

- Independently adjustable alarm and warning thresholds
- Integrated LCD display for insulation value display

More info
ProductFinder



SAFEMASTER PRO



Configurable safety system UG 69xx

- Monitoring of all safety circuits on machines and systems
- Configuration with SAFEMASTER PRO Designer

R_{iso}

Multi

SAFEMASTER S



Speed and frequency monitor UH 6937

- Reliable monitoring of phase sequence and direction of rotation
- Sensorless and easy to retrofit
- Simple commissioning without a PC

VARIMETER PRO



Energy meter RL 9405

- Can be used without separate auxiliary voltage
- Wide operating voltage range
- Up to 50 measured values can be recorded
- Space-saving width of only 35 mm

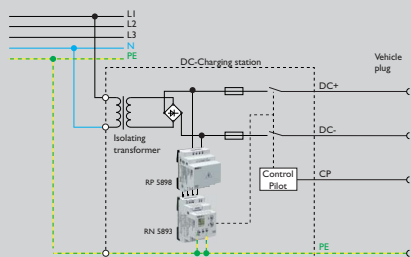
RENEWABLE ENERGY INDUSTRY Mega Charging Station 1500 VDC IMD Products



RN 5893

The RN 5893 insulation monitor from the VARIMETER IMD family is used specifically in DC charging stations in accordance with UL 2231 and, in conjunction with the RP 5898 coupling device, monitors the charging process from the charging station to the vehicle. Characterized by a nominal voltage of up to DC 1000 V with coupling device and the detection of both asymmetrical and symmetrical insulation faults. It also has a Modbus RTU interface. All measured values, device statuses and parameters can be read out, set and parameterized via Modbus.

+ Application example RN 5893 insulation monitor



+ Coupling device for higher rated voltages



RP 5898

+ Additional Features



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VARIMETER IMD



Insulation monitor RN 5893

- Suitable for DC charging stations for electric vehicles acc. to UL 2231
- With Modbus RTU interface
- Nominal voltage of up to DC 1000 V
- Integrated voltage measurement

More info
ProductFinder



SAFEMASTER W



Radio controlled safety system UH 6900

- Safety-relevant, bidirectional transmission of emergency stop signals
- Wireless connection of two zones up to 800 m
- Ideal for retrofitting

VARIMETER



DC voltage relay UG 9831

- Monitoring of DC voltages networks
- Wide measuring range DC 20 - 1000 V
- Min., max. value or window monitoring
- Optionally also available with Modbus RTU interface

SAFEMASTER



Emergency stop module UF 6925

- Fast wiring due to integrated push-in connection technology on the front
- Compact design measuring just 17.5 mm
- For safety applications up to Cat. 4 / PL e resp. SIL 3, UL-certified

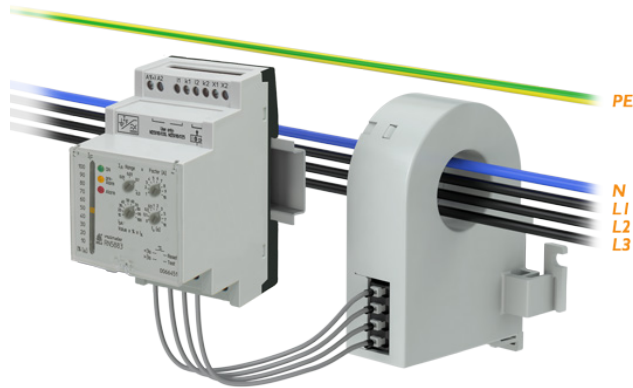
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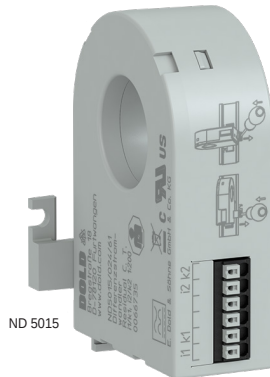
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The Dold ND 5015 residual current transformer operates as a solid-core, high-accuracy sensor designed to monitor insulation integrity by measuring leakage and differential currents. When deployed within an Electrical Power Transmission Center, it acts as a critical early-warning defense mechanism within the control, substation automation, and auxiliary power infrastructure. The residual current transformer ND 5015 is designed for DIN rail mounting or screw-type mounting. Mounting on the top-hat rail may be done horizontally or vertically.



ND 5015



IL 5881

The insulation monitor IL 5881 of the series VARIMETER IMD monitors the insulation resistance of non-earthed DC systems (IT-systems) with nominal voltage up to DC 12 ... 280 V. The supply voltage (auxiliary voltage) is taken from the monitored system. The device has LEDs to indicate the operating status. The response value can be set in a user-friendly way on the front of the device via a potentiometer.



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DOLD 



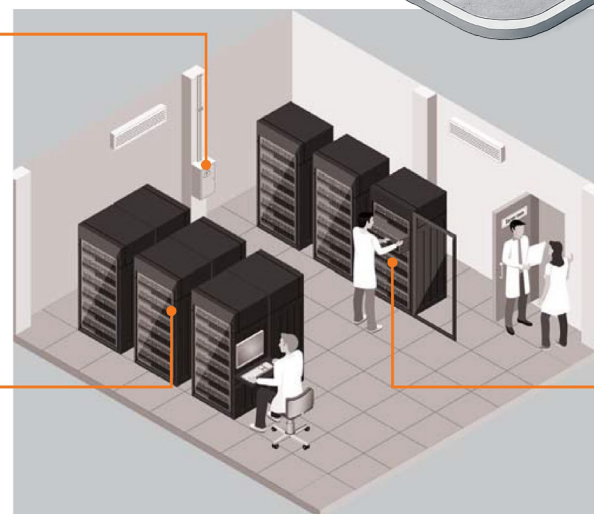
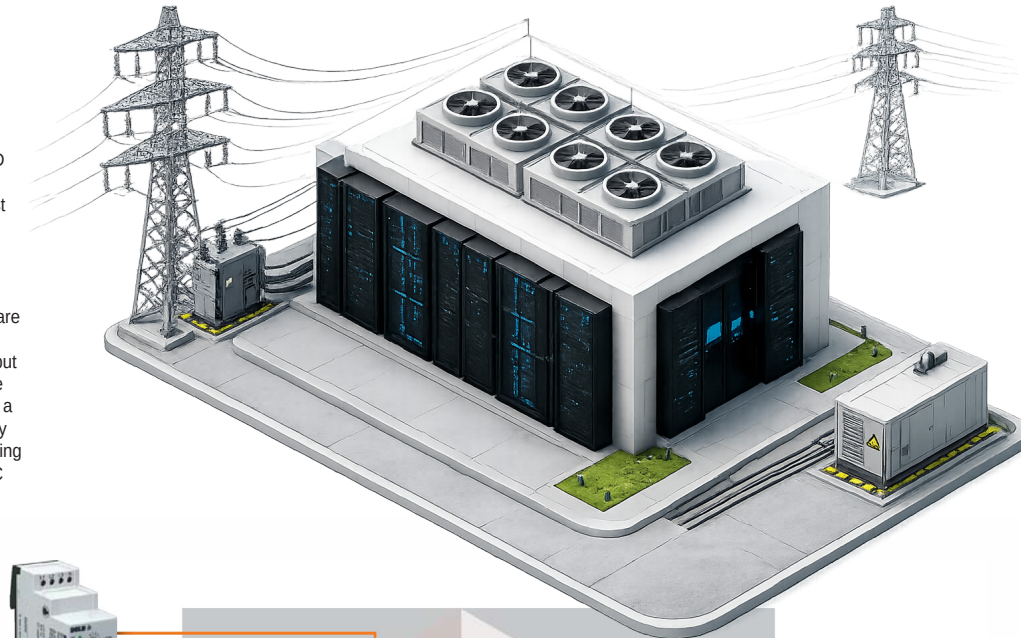
LK 5896

The insulation monitor LK 5896 of the VARIMETER IMD family is a solution for optimal insulation monitoring of modern IT systems. The device can be used in the most flexible way for AC, DC and AC/DC systems even with large leakage capacity to earth (PE). The adjustment of the setting values is simple and user friendly done on 2 rotary switches on the front of the device. Via LEDs the measured value, device parameters and device status are indicated easy to read. The unit has 3 relay contacts to signal Insulation and device failures. The analogue output provides a voltage and current signal proportional to the actual insulation resistance, which can be connected to a superior control (plc), another system or external display unit. In addition the LK 5896 provides a second measuring circuit that can be used to monitor an inverter on the AC side also when the inverter is disconnected.

The energy meter RL 9405 of the VARIMETER PRO series is consumed for measuring electrical parameters and energy consumption in 3-phase networks with neutral conductor. Voltages and currents are continuously scanned and evaluated. The measured values can be read out via a Modbus RTU interface. Due to its compact design width of only 35 mm, the energy meter is also ideally suited for use in confined spaces. Energy consumptions are stored in the device after switching off the supply voltage. The RL 9405 is designed for the use of current transformers with 100 mA, 1 A or 5 A secondary rated current or with 333 mV secondary rated voltage. The winding ratio is adjustable via Modbus and thus enables the connection of commercially available current transformers.



RL 9405



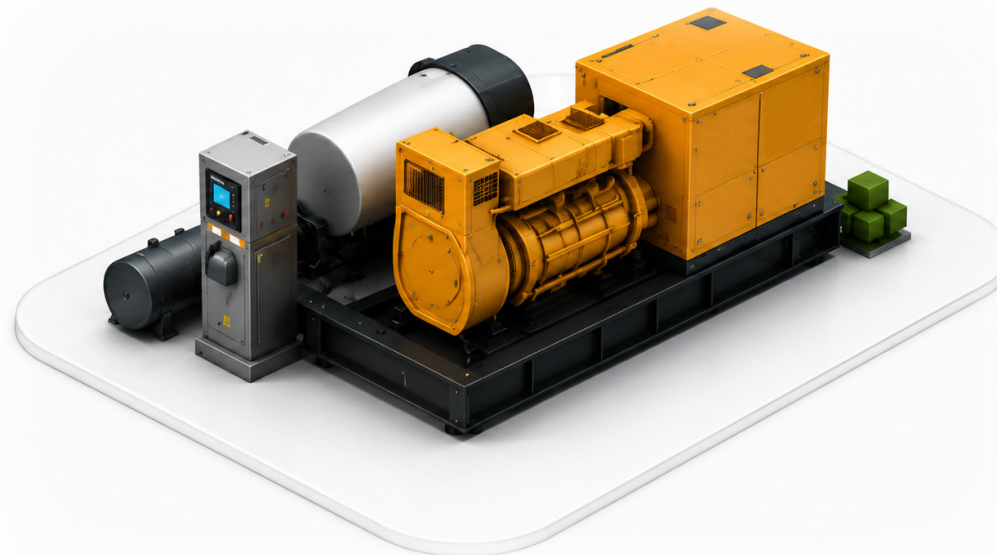
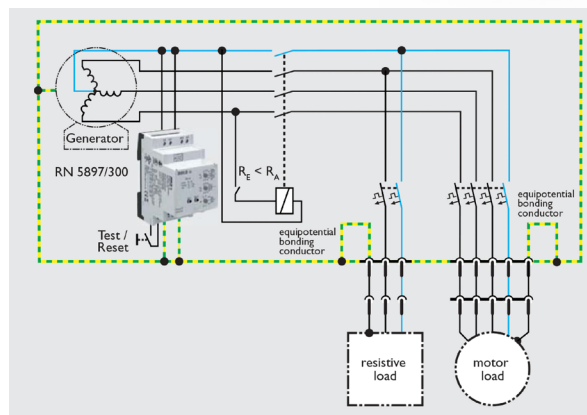
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DOLD 



The insulation monitor RN 5897 of the VARIMETER IMD family is a solution for optimal insulation monitoring of modern IT systems. The device can be used in the most flexible way for AC, DC and AC/DC systems even with large leakage capacity to earth (PE). The adjustment of the setting values is simple and user friendly done on 2 rotary switches on the front of the device. Via display and LEDs the measured value, device parameters and device status are indicated easy to read. With a sealable transparent cover the device is protected against manipulation.



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