

CAPDIS-S2+

Integrated capacitive voltage
Monitoring system with relay contacts



Voltage detecting system (VDS) for high voltage

Detection of voltage condition in high voltage equipment according to IEC61243-5. Integrated continuous three phase voltage indication.

No battery required

For voltage detecting and self test no external power supply or battery is required.

Completely free of maintenance

The device performs a permanent online insulation measuring.

Inherent safety

The CAPDIS-S2+ includes a self test which offers inherent safety, no external test device is required.

Optional broken signal lead detection

Relay outputs

For remote monitoring of voltage condition two relay contacts are integrated. The relays are driven by auxiliary voltage.

Integrated 3-phase test point

Acc. to the LR-specification in IEC 61243-5.

The test point can be used for phase comparison and phase sequence test.

Integrated U0-interface

For easy installation of earth-fault direction relay IKI-EDI-W or partial discharge monitoring.



CAP-LINE





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Monitoring system with relay contacts

Function and technical data CAPDIS-S2+

Applied standard: IEC 61243-5 (integrated voltage detecting system)

Indication per phase:

<p>- $U < 10\%$ of U_N no voltage</p> <p>• active 0 </p>	<p>10% of $U_N \leq U \leq 45\%$ of U_N voltage present</p> <p>• half arrow </p>	<p>internal test passed nominal voltage is present maintenance test passed → full arrow </p>	<p>pressed test button display function test → framed full arrow </p>
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Test button function: - Test passed

- Fault: signal lead broken or no auxiliary voltage

→ **framed full arrow**

→ **ERROR**

Relay functions: L1 or L2 or L3 = 1, at least 1 phase with $U > 10\%$ of U_N
L1 or L2 or L3 = 0, at least 1 phase with $U < 10\%$ of U_N
broken signal lead or no auxiliary voltage present
earth-fault or asymmetry

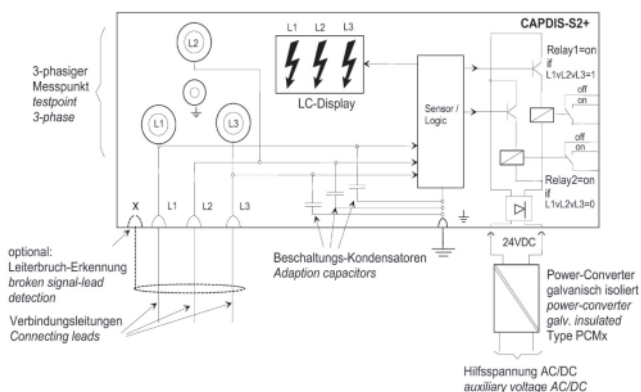
→ **relay1 on**

→ **relay2 on**

→ **relay1 and 2 off**

→ **relay1 and 2 on**

Auxiliary voltage:	24 VDC +/- 10%, galv. insulated!
Power consumption:	< 1 W
Switching - power of relays:	250 VAC, 5 A / 30 VDC, 5 A / 250 VDC, 0.3 A
Housing:	front panel mounting, plastics
Dimensions:	h x w x d = 48 x 96 x 37 mm
Recommended cut:	h x w = 45 x 92 mm
Operating temperature:	-25°C to +55°C
Storage temperature:	-30°C to +70°C
Protection class:	IP 54
Connectors for signal leads:	fast-on receptacles 4.8 x 0.8 mm
Required data for order:	rated voltage U_N capacitance of coupling electrode C1
Part number:	2500746 (CAPDIS-S2+ without signal lead test) 2500753 (CAPDIS-S2+ with signal lead test) 2500743 (Multi voltage power supply PCMKi, input 24..230 VAC/DC, output 24 VDC)



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