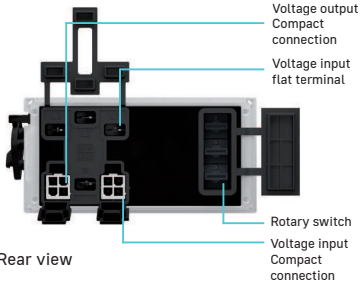


# Wega 1 V

## Integrated voltage detecting system



Front view



Rear view

### PRODUCT FEATURES

- ▶ According to the current IEC 62271-213:2021 standard
- ▶ Tool-free assembly and disassembly: saves time
- ▶ Integrated maintenance test: maintenance-free
- ▶ Retrofit ready: capacitive connection to ComPass B and Sigma D series
- ▶ Fully encapsulated electronics: high functional reliability
- ▶ Extended temperature range from -40°C to +75°C: increased application possibilities
- ▶ High display contrast: improved readability
- ▶ Phase-selective rotary switches: quick and easy commissioning
- ▶ LRM interface on the front: fully compliant with IEC 62271-213:2021

Wega 1 V is a three-phase voltage detecting system that indicates subsequent medium voltage conditions:

- Voltage present  
Threshold values for voltage presence indication: 0.1—0.45 x Vnom
- Voltage present  
Integrated maintenance test passed
- Voltage present  
Integrated maintenance test passed  
Voltage signal too high (overvoltage indication)
- Voltage not present

The built-in display test function on the front allows the display to be tested when installed and de-energised.

Shielded or unshielded cables with compact connections (AMP) can be connected to the fault direction indicator. Fifteen different C2 settings can be made in a user-friendly manner via phase-selective rotary switches. The correct C2 setting is shown on the display (arrow and dot symbol without overvoltage indicator).

| Technical data    | Wega 1 V   |
|-------------------|--|
| Nominal voltage   | 1—52 kV (nominal voltage of switchgear, further values on request)   |
| Nominal frequency | 50—60 Hz   |
| Interface         | <ul style="list-style-type: none"> <li>▶ 3 LRM measuring sockets (one per phase) and 1 earth socket</li> <li>▶ LRM system, 14 mm distance between sockets, with captive anti-dust cap</li> </ul> |
| Indication        | LCD display with arrow, dot and wrench tool  |
| Power supply      | <ul style="list-style-type: none"> <li>▶ No auxiliary supply needed</li> <li>▶ LCD display: fed by measuring voltage</li> </ul>  |
| Input/ Output     | Input: flat terminal or compact connection (AMP)   Output: compact connection (AMP)  |
| Housing           | Polycarbonate, IP54  |
| Temperature range | -40 °C to +75 °C   |

For retrofit projects, the following Wega 1 V variants can be connected directly to the C1 decoupler:

| Switchgear  | Voltage range | Order no.   |
|---|---------------|-------------|
| ABB SafeRing/SafePlus;<br>Driescher Minex, PSA10, PSA20;<br>Ormazabal GAE;<br>Schneider FBX, RM6, SM6;<br>Siemens 8DJH, 8DA/DB (Innenkonus S2, S3, S4 & Poltragplatte), NX Plus | 10 kV         | 51-1900-151 |

| Switchgear  | Voltage range | Order no.   |
|---|---------------|-------------|
| ABB SafeRing/SafePlus;<br>Driescher Minex, PSA10, PSA20;<br>Ormazabal GAE;<br>Schneider FBX, RM6, SM6;<br>Siemens 8DJH, 8DA/DB (Inner cone S2, S3, S4 & Pole mounting plate), NX Plus | 20 kV         | 51-1900-152 |

Universal solution for new installations and retrofit – Wega 1 V

| Capacitor cube | Adjustable capacities   | Input or output               | Order no.   |
|----------------|---|-------------------------------|-------------|
| Low-Range      | 0, 100, 220, 320, 470, 570, 690, 790, 820, 920, 1040, 1140, 1290, 1390, 1510, 1610 pF     | 4 x Flat connector<br>2 x AMP | 51-1900-101 |
| Mid-Range      | 0, 1,5, 3,3, 4,8, 6,8, 8,3, 10,1, 11,6, 15,0, 16,5, 18,3, 19,8, 21,8, 23,3, 25,1, 26,6 nF | 4 x Flat connector<br>2 x AMP | 51-1900-102 |
| High-Range     | 0, 22, 33, 55, 68, 90, 101, 123, 68, 90, 101, 123, 136, 158, 169, 191 nF                  | 4 x Flat connector<br>2 x AMP | 51-1900-103 |

Further Vario variants on request.

Required connecting cable between Wega and directional fault indicator

| Switchgear   | Output Wega / Input indicator | Indicator                                      | Cable length | Order no.   |
|--|-------------------------------|--|--------------|-------------|
| ABB<br>Eaton<br>Lucy Electric<br>Ormazabal<br>Schneider<br>Siemens       | AMP / AMP                     | Sigma D and ComPass B 2.0 series,<br>ComPass D | 300 mm       | 49-0509-180 |
| ABB<br>Eaton<br>Lucy Electric<br>Ormazabal<br>Schneider (RM6)<br>Siemens | AMP / 4-pole connector        | ComPass B                                      | 300 mm       | 49-0509-007 |
| Driescher  | AMP / AMP                     | Sigma D und ComPass B 2.0-Serie,<br>ComPass D  | 1,300 mm     | 49-0509-188 |
| Driescher  | AMP / 4-pole connector        | ComPass B                                      | 1,300 mm     | 49-0509-024 |
| Schneider (RM AirSeT)  | AMP / AMP                     | SIGMA D, ComPass B 2.0-Serie,<br>ComPass D     | 1,000 mm     | 49-0509-195 |

Further voltage ranges and cable lengths of the connecting cables on request.

Dimension drawing see on page 132 ff | M12 Data Standard

### Wega 1 V to HR interfaces | Retrofit of HR socket modules



| Equipment set  | Order no.   |
|--|-------------|
| 1 Wega mounting kit incl. housing, magnet, connecting cables |             |
| 300 mm Cable   | 51-1550-900 |
| 500 mm Cable   | 51-1550-901 |

Further cable lengths on request.