

## EARTH ZERO / EARTH ZERO Flag

Earth Fault Indicator

### Product Features

- Indication of earth fault currents by LED and mechanical flag
- Remote indication via relay contacts
- Optional: external signal lamp

The EARTH ZERO device is an earth fault indicator. It is designed to detect, locally indicate and remotely report earth fault currents in medium voltage distribution networks. A wired earth fault current transformer monitors the summation current of all three conductors. The electronics of the display unit evaluates the measurements. When the fault sensitivity threshold is exceeded, a red LED will start flashing and a mechanical flag becomes visible (EARTH ZERO Flag). In addition to that, the remote indication contacts are energised. A system-related external signal lamp (optionally available) is also activated.



EARTH ZERO, plug-in housing



EARTH ZERO, surface mount housing



EARTH ZERO Flag, plug-in housing



EARTH ZERO Flag, surface mount housing

# EARTH ZERO/EARTH ZERO Flag

## Earth Fault Indicator

Technical Data	EARTH ZERO	EARTH ZERO Type Flag
Earth fault indicator	▪	▪
$I_{E>}$ Earth fault trip current	25, 50, 75 or 100 A <sup>1)</sup>	
$t_{E>}$ Response delay	80 or 160 ms <sup>1)</sup>	
Accuracy	±15 %	
Indication	1 red LED, flash rate 2 s	1 red LED + mechanical flag
Reset	<ul style="list-style-type: none"> <li>▪ Manual reset</li> <li>▪ Automatic time reset: 2, 4 or 8 h</li> <li>▪ Voltage restoration (110–240 V AC)</li> </ul>	
Remote signal	1 Relay contact and input for external signal lamp	
Remote contact	Potential-free permanent or momentary contact (1 s), adjustable Contact capacity: 230 V AC / 1 A / 62.5 VA max. 220 V DC / 1 A / 60 W max.	
Power supply	Long-life lithium cell, shelf life ≥20 years, >1,200 h total flashing time (>500 h when using the external signal lamp)	
Housing	Polycarbonate, IP40 (plug-in housing), IP65 (surface mount housing)	
Temperature range	-30 to +70 °C	

1) Further trip currents on request  
Dimension drawing see on page 49, M6 and on page 50, M7

	EARTH ZERO	EARTH ZERO Type Flag
Equipment set	<ul style="list-style-type: none"> <li>▪ 1 Display unit</li> <li>▪ 1 Summation current transformer</li> </ul>	

Article	Order No.	
	EARTH ZERO	EARTH ZERO Type Flag
Display unit in plug-in housing	32-0513-001	32-0512-002
Display unit in surface mount housing	32-0503-001	32-0502-002
Summation current transformer, 3 m connection cable	49-6013-029	
External signal lamp, 1 LED, 5 m connection cable, excluding battery	49-0701-010	
External signal lamp, 1 LED, 12 m cable, excluding battery	49-0701-012	

