

# MINING 3 PHASE MONITOR

**TYPE: ANZPFR/1000V**

## FEATURES

- Din rail mounted
- Monitors phase rotation / phase loss
- Separate relay outputs for phase rotation direction
- Separate relay output for phases healthy
- Suitable for system voltages 415-1200VAC L-L
- Monitors phases Line - Earth 240-700VAC
- Low voltage threshold fixed at  $\leq 210$ VAC L-E
- LED's for output relay status & phase rotation indication
- 3PNO output rated 5 Amps
- Supplied complete with an optionally connected remote indicator



DESIGNED &  
MANUFACTURED  
IN THE UK



## DESCRIPTION & MODE OF OPERATION

The ANZPFR/1000V is a Din rail mounted three phase monitor, with phase rotation discrimination clockwise or counter clockwise, via separate contact outputs designated "CW" and "CCW", front LED indication, plus the use of an optional connected front indicator.

Suitable for use on L-L system voltages from 415-1200VAC. Phase voltage is monitored on a Line to Earth basis 240-700VAC, a phase loss is determined as a phase voltage Line to Earth of  $\leq 210$ VAC, all phases present and above 210VAC Line to Earth and contact output designated "PV" is energised. A loss of a phase, or drop in voltage below the 210VAC fixed threshold the "PV" output contact will de-energise after a fixed 2 Second delay.

LED indication on the front of the unit designated phase colours R, W, B will each illuminate red if present and the voltage is above 210V Line to Earth. However, they will all blink green in turn every third of a second in direction of rotation. This indication is also repeated on the optionally connected ANZLLI remote indicator.

### Notes:

An auxiliary supply is required for the unit to operate, loss of the auxiliary supply and any energised output contacts will de-energise immediately. A healthy connected auxiliary supply is indicated via an illuminated red LED on the front of the unit and on the remote indicator if connected.

The 3NO output contacts share a common, common.

The remote 22.5mm Dia. indicator is optionally connected via terminals designated X1 & X2

## SPECIFICATIONS

<b>Auxiliary supply:</b>	440VAC, 415VAC, 400VAC, 230VAC, 110VAC 48VAC/DC, 24VAC/DC, 12VAC/DC
<b>AC frequency:</b>	50/60Hz
<b>3 Phase Supply:</b>	415-1200VAC L-L (240-700VAC L-Earth)
<b>Umin fixed:</b>	210V Line to Earth
<b>Auxiliary isolation:</b>	Via transformer 2.5KV AC/DC supplies via an AC/DC to DC converter
<b>Power consumption:</b>	AC, max 3VA AC/DC, max 1W/1VA
<b>Tripping delay:</b>	2 Seconds fixed
<b>Operating temperature:</b>	-10°C to +65°C
<b>Output relay:</b>	3PNO (sharing a common, common)
<b>Output relay rating:</b>	5 Amps/250VAC AC1 5 Amps/30VDC DC1
<b>Mechanical life:</b>	30 Million ops / max 600 ops/hr
<b>Electrical life:</b>	200K ops at max rated load
<b>Max cable size:</b>	4mm
<b>CE marked:</b>	Yes
<b>RoHS compliant:</b>	Yes
<b>Housing material:</b>	Polycarbonate Auto extinguishable to UL 94 V-0

### DIMENSIONS

