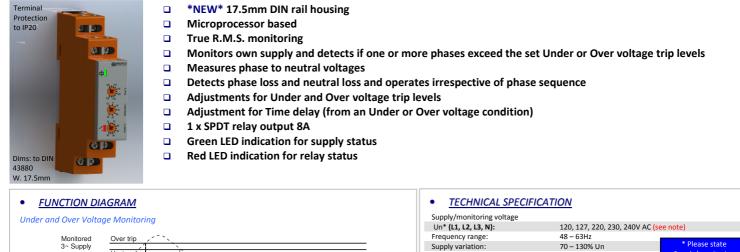


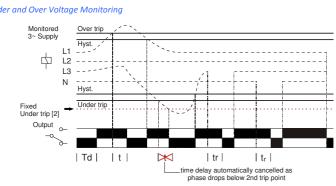
Type: LXPRC-4W

Phase Failure, Under and Over Voltage plus Time Delay



Installation work must be carried

out by qualified personnel.



. INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required. The Connection Diagram below shows a typical installation, whereby the supply to a load is being monitored by the Phase monitoring relay. If a fault should occur (i.e. fuse blowing), the relay will de-energise and assuming control of the external Contactor, de-energise the Contactor as well

Applying power.

- Set the "Over %" 3 adjustment to maximum and the "Under %" 3 adjustment to minimum. Set the "Delay (t)" 🕘 to minimum.
- Apply power and the green "Power supply" 1 and red "Relay" 2 LED's will illuminate, the relay will energise and contacts 15 and 18 will close. Refer to the troubleshooting table if the unit fails to operate correctly

Setting the unit (with power applied).

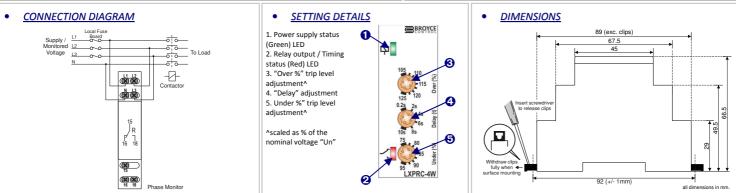
- Set the "Over %" and the "Under %" adjustments to give the required monitoring range.
- If large supply variations are anticipated, the adjustments should be set further from the nominal voltage
- Set the "Delay (t)" adjustment as required. (Note that the delay is only effective should the supply increase above or drop below the set trip levels. However, if during an under voltage condition the supply drops below the 2nd under voltage trip level, any set time delay is automatically cancelled and the relay de-energises).

Note: If the supply voltage increases above the maximum "Over %" trip setting by approx. 5% or more, the relay will de-energise immediately

Troubleshooting.

The table below shows the status of the unit during a fault condition.

Supply fault	Green LED	Red LED	Relay	
Phase or neutral missing	On	Off	De-energised	
Under or Over Voltage condition (during timing)	On	Flashing	Energised for set delay (t)	
Under or Over Voltage condition (after timing)	On	Off	De-energised	
Phase below 70% of Un (fixed under trip level [2])	On	Off	De-energised	





Broyce Control Ltd., Pool Street, Wolverhampton, West Midlands WV2 4HN. England Tel: +44 (0) 1902 773746 Fax: +44 (0) 1902 420639 Email: sales@broycecontrol.com Web: www.broycecontrol.com The Information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such information shall be entirely at the user's own risk. LXPRC-4W-1-A

	/0 150/0011		Suppl	ulmonitoring		
Overvoltage category:	III (IEC 60664)		Supply/monitoring voltage when ordering			
Rated impulse withstand voltage:	4kV (1.2/50μS) IEC 60664		voltage when ordering			
Power consumption (max.):	6VA					
Monitoring mode:	Under and Over vol	tage				
Trip levels:		-				
Under [2]:	70% of Un (fixed) ±	2%				
Under:	75 – 95% of Un					
Over:	105 – 125% of Un					
Measuring ranges:	Under [2]	Under		Over		
120V:	84V	90 – 114V		126 – 150V		
127V:	89V	95 – 121V		133 – 159V		
220V:	154V	165 - 209	V	231 – 275V		
230V:	161V	173 – 218	V	241 – 288V		
240V:	168V	180 - 228	V	252 – 300V		
Hysteresis:	≈ 2% of trip level (factory set)					
Setting accuracy:	± 3%					
Repeat accuracy:	\pm 0.5% at constant conditions					
Immunity from micro power cuts:	<50mS					
Response time:	≈ 50mS					
Time delay (t):	0.2 - 10 sec. (± 5%)					
	Note: actual delay (t) = adjusta	ble delay	+ response time		
Delay from Phase/Neutral loss (tr):	\approx 150mS (worst case = tr x 2)					
Power on delay (Td):	\approx 1 sec. (worst case = Td x 2)					
Power on indication:	Green LED					
Relay status indication:	Red LED					
Ambient temp: Relative humidity:	-20 to +60°C +95% max.					
,						
Output (15, 16, 18) :	SPDT relay					
Output rating:			250V 8A (2000VA)			
	AC15			(no), 3A (nc)		
	DC1		25V 8A (2	200W)		
Electrical life:	≥ 150,000 ops at ra					
Dielectric voltage:	2kV AC (rms) IEC 60947-1					
Rated impulse withstand voltage:	4kV (1.2/50µS) IEC	60664				
Housing:	Orange flame retardant UL94 V0					
Weight:	75g					
Mounting option:	On to 35mm symmetric DIN rail to BS EN 60715					
	or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.					
				r of the unit.		
Terminal conductor size	\leq 2 x 2.5mm ² solid	or stranded				
Approvals:	Conforms to IEC. CE, Cand RoHS Compliant. EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 15V/m					
	80MHz - 2.7GHz)					
	Emissions: EN 61000-6-4					
Note:						
The "Supply / monitoring voltage Un" r	efers to the phase to	neutral no	minal volt	age for the		
The second second second second	and the the phase to					

Note The " product and voltage variants available. To convert these voltages to a phase to phase voltage, . multiply by 1.732.

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