

ELR-D2

EARTH LEAKAGE RELAY - MODULAR VERSION 2 MODULE



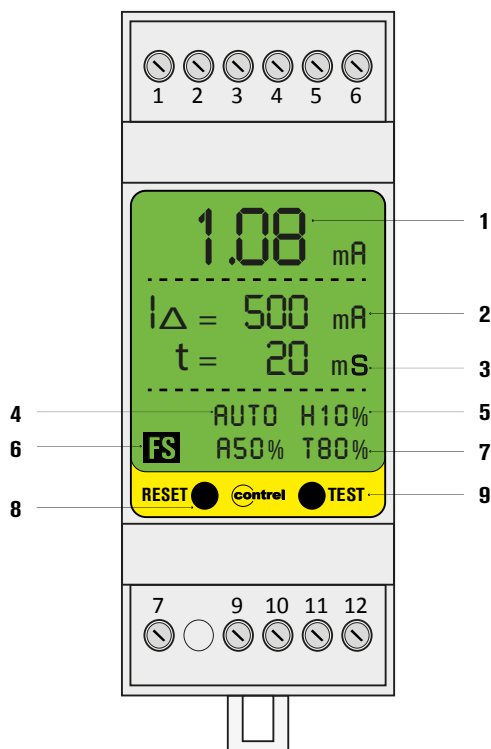
GENERAL CHARACTERISTICS

- True RMS
- Earth leakage relay type A
- External toroidal
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- LCD display
- Front TEST and RESET buttons
- RS485 serial interface (Modbus RTU)
- Modular DIN housing, 2 modules, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ORDER CODE	RATED AUXILIARY SUPPLY VOLTAGE	OUTPUTS CONTACTS	DISPLAY	COMMUNICATION PORT	WT [kg]
ELR-D2 110	110 VAC	1	-	-	0,200
ELR-D2-V 110	110 VAC	1	LCD	-	0,200
ELR-D2-V-485 110	110 VAC	1	LCD	RS485 (Modbus RTU)	0,200
ELR-D2 240	240 VAC	1	-	-	0,200
ELR-D2-V 240	240 VAC	1	LCD	-	0,200
ELR-D2-V-485 240	240 VAC	1	LCD	RS485 (Modbus RTU)	0,200

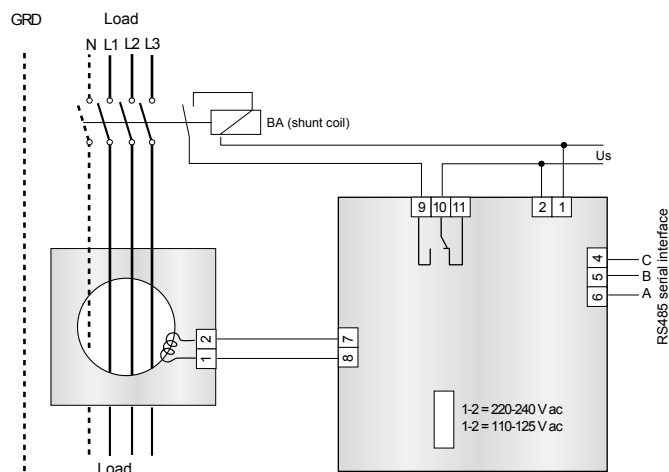
ADJUSTMENTS	
Configurable tripping set-point ($I_{\Delta n}$)	0,03...30A
Prealarm set-point	OFF 50...90%
Configurable tripping delay time (t)	0,02...10 s

LEGENDA	
1	LCD display (version ELR-D2-V, ELR-D2-V-485) for viewing the differential current
2	Set of fault current to earth tripping threshold $I_{\Delta n}$.
3	Set tripping delay time (t)
4	auto reset (AUTO) - man reset (MAN) auto reset = automatic reset man reset = manual reset through RESET key on the front.
5	Threshold set hysteresis
6	FS alarm = positive safety activated on ALARM relay, in this condition the prealarm relay ALARM is normally energised; therefore in the event of the lack of auxiliary voltage the output contacts move to the trip condition (TRIP). Off = positive safety deactivated. ALARM relay normally deenergised.
7	Alarm and trip advance set-point
8	RESET key. To reset the relay after tripping. For remote reset, simply shut off the auxiliary supply for about 1 second.
9	TEST key. Causes tripping of the relay.



TECHNICAL CHARACTERISTICS	ELR-D2	ELR-D2-V	ELR-D2-V-485
CONTROL CIRCUIT			
Toroidal transformer	External	External	External
Adjustments tripping set-point ($I\Delta$)	0.03÷30A	0.03÷30A	0.03÷30A
Adjustments tripping time (t)	da 0,02 a 10 s	da 0,02 a 10 s	da 0,02 a 10 s
Prealarm set-point	50%...trip set-point	50%...trip set-point	50%...trip set-point
Set-point trip	50...90%	50...90%	50...90%
AUXILIARY SUPPLY			
Auxiliary voltage (Us)	110 VAC - 230 VAC	110 VAC - 230 VAC	110 VAC - 230 VAC
Rated frequency	50-60 Hz	50-60 Hz	50-60 Hz
Maximum power consumption	3 VA	3 VA	3 VA
OUTPUT RELAYS			
Contact arrangement	1 changeover (trip)	1 changeover (trip)	1 changeover (trip)
Rated contact capacity Ith	5 A (240 VAC)	5 A (240 VAC)	5 A (240 VAC)
INDICATIONS			
Auxiliary voltage available (ON)	Green LED	green backlight	green backlight
Superamento soglia di allarme	Yellow LED	yellow backlight	yellow backlight
Relay tripping (TRIP)	Red LED	red backlight	red backlight
RS485 SERIAL INTERFACE			
Baud-rate	-	-	Programmable
DISPLAY			
Type	-	graphic LCD with RGB backlight	graphic LCD with RGB backlight
Format	-	72 x 100 pixel	72 x 100 pixel
INSULATION			
Insulation test	2.5kV for 1 minute	2.5kV for 1 minute	2.5kV for 1 minute
AMBIENT OPERATING CONDITIONS			
Operating temperature	-10÷60 °C	-10÷60 °C	-10÷60 °C
Storage temperature	-20÷80 °C	-20÷80 °C	-20÷80 °C
Relative humidity	≤90%	≤90%	≤90%
ENCLOSURE			
Version	2 modules DIN		
Degree of protection	IP20 terminals IP40 with protective cover		
CERTIFICATIONS AND COMPLIANCE			
Reference standards	IEC/EN 61010, IEC/EN 61000-6-2 IEC/EN 61000-6-3, IEC/TR 60755 CEI EN 60947-2 Annex M		

WIRING CONNECTION



MECHANICAL DIMENSIONS

