



R-IPXL & R-IPXH CURRENT MONITORING RELAYS



A simple and convenient way to monitor the current draw of ac electric motors, heating elements etc.

Models R-IPXL and R-IPXH are separately powered current monitoring relays with an adjustable set point. The relay is on when the current is above the set point. Each unit has four ranges selected by DIP switches, three model variations cover current ranges from 200mA up to 100A.

Current is monitored by feeding the current carrying cable through the hole in the centre of the relay housing. A built-in current transformer detects current flowing in the cable.

An external power supply of either 24Vac, 110Vac, 230Vac or 24Vdc is needed to operate the relay.

Delay on operate version has a built in delay before the relay energises.

Model R-IPXH has a relay contact rating of 10A 250Vac non-inductive load.

Model R-IPXL has a relay contact rating of 2A and is suitable for signalling or switching light loads.

Order code: RIPXH-(range)-(voltage), RIPXL-(ranges)-(supply voltage)

Sample order codes:

RIPXH-5-20A-230V - high current contacts, ranges 5-20A, supply 230V ac

RIPXL-200mA-2A-24VDC - low current contacts, ranges 200mA-2A, supply 24V dc

RIPXH-EARTH-LEAK - special for earth leakage, set to 200mA, supply 110V ac, delay on operate

Delay on operate on request.

Specifications

Input	Alternating current passed through hole in the centre of the relay housing Through hole conductor size : <12.5mm	
Input Ranges	R-IPXL-200mA-2A	: 200mA, 500mA, 1A, 2A
	R-IPXL-5A-20A	: 5A, 10A, 15A, 20A
	R-IPXL-25A-100A	: 25A, 50A, 75A, 100A
	R-IPXH-200mA-2A	: 200mA, 500mA, 1A, 2A
	R-IPXH-5A-20A	: 5A, 10A, 15A, 20A
	R-IPXH-25A-100A	: 25A, 50A, 75A, 100A
Hysteresis	: 1 to 2% of full scale	
Output	Single pole change over relay contacts	
	Contact rating	R-IPXL : AgNi + Au contacts, 2A 125Vac, minimum switching load <10mW
		R-IPXH : AC1(non-inductive) 2500VA, 10A 250Vac
		: AC15(inductive) 500VA, 2A 250Vac
		: DC1 30V/10A, 110V/0.3A, 220V/0.12A
		: AgSnO ₂ for resistive and slightly reactive loads with inrush currents <100A
Off Delay or Delay on Operate	: off delay approximately 1 minute Other delay times or delay on operate on request	
Supply	: 24Vdc 1W : 24Vac, 110Vac, 230Vac 7.5VA	
Temperature	Operating	: -10°C to +20°C to +50°C
	Storage	: -20°C to +70°C
EMC Compliance	: AS/NZS 61000.6.3:2012	
Housing	Fire retardant module to IP40 in gray polyamide, suitable for surface mounting or DIN EN 50022-35 top hat and EN 50035-G32 G-profile mounting rail.	
Terminals	Rising clamp, nicked copper alloy clamp and tin plated copper alloy terminal Suitable for up to 2.5mm ² stranded conductor	

CARREL ELECTRADE LTD

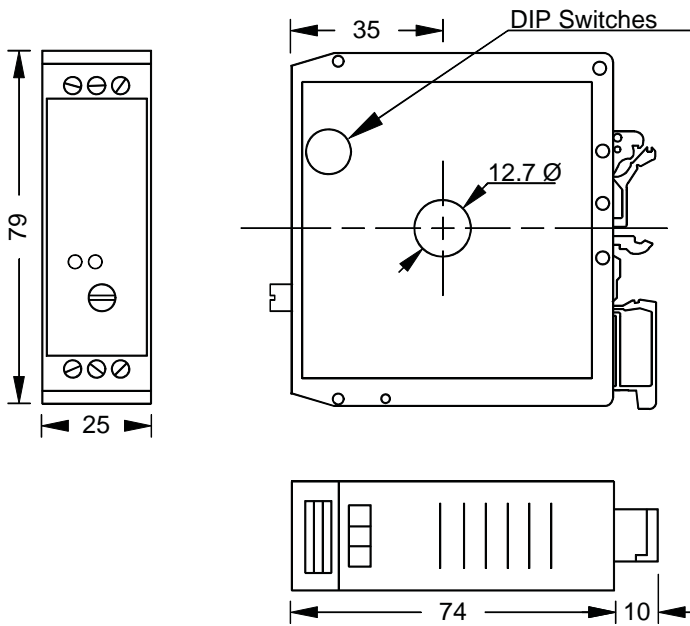
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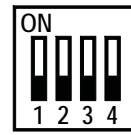


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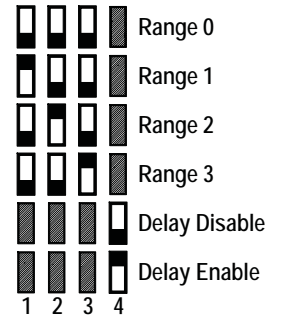
Housing Dimensions



DIP Switch Range Selection



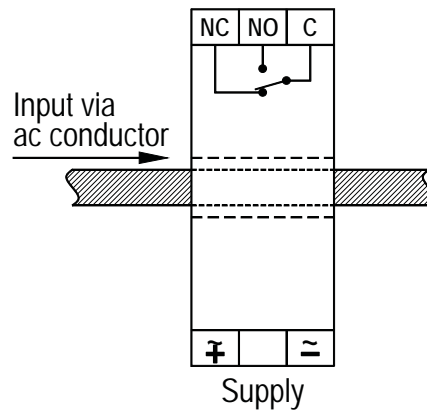
1, 2, 3 Range select
4 Off Delay



Ranges	200mA-2A	5A-20A	25A-100A
Range 0	200mA	5A	25A
Range 1	500mA	10A	50A
Range 2	1A	15A	75A
Range 3	2A	20A	100A

NOTE the delay on operate version has no Off delay function.

Connection Diagram



Current Imbalance, Earth Leakage Operation

